DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 198

1. Preparer: Amaro, C.

2. Date prepared: 09/01/93

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:
22H

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 1971 Ending year 1983

9. Waste stream volume:
Amount 1204.0978 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 604, 614, 624, 632, 642, 647, 653, 657, 662, and 670.

1. General physical form (see attached list)
Combustibles (paper, cloth, wood, etc.).
[X] other (specify)
42.

2. Details on physical form(particularly confinement related)
Plant waste is 40% rags, 40% floor sweepings and 20% glassware.

3. Chemical form:
Unknown.

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):
4. Because of the multiple containers, it is only assumed they are lined with plastic.
5. BLX, BXW, "Other" and BLM. "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.										

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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
H-3	Unknown.	Unknown.	T 1.2240000000000	CI	1971	1971	N			See continuation page.
C-14	Unknown.	Unknown.	T .16420000000000	CI	1971	1971	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 28.360000000000	CI	1971	1971	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00850900000000	CI	1971	1971	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 4.7770000000000	CI	1971	1971	N			See continuation page.
Co-60	Unknown.	Unknown.	T 10.000000000000	CI	1971	1971	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .01373000000000	CI	1971	1971	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00268700000000	CI	1971	1971	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000069867000	CI	1971	1971	N			See continuation page.

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Cs-137	Unknown.	Unknown.	T 2.9860000000000	CI	1971	1971	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .07016000000000	CI	1971	1971	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00004329000000	CI	1971	1971	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .14030000000000	CI	1971	1971	N			See continuation page.
U-234	Unknown.	Unknown.	T .00003135000000	CI	1971	1971	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000067180000	CI	1971	1971	N			See continuation page.
U-236	Unknown.	Unknown.	T .00001194000000	CI	1971	1971	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00001941000000	CI	1971	1971	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00080610000000	CI	1971	1971	N			See continuation page.

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Pu-239	Unknown.	Unknown.	T .00080610000000	CI	1971	1971	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00008509000000	CI	1971	1971	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .08807000000000	CI	1971	1971	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00040310000000	CI	1971	1971	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00040310000000	CI	1971	1971	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00037320000000	CI	1971	1971	N			See continuation page.
Ba-140	Unknown.	Unknown.	T .09000000000000	CI	1971	1971	N	-20%	+20%	See comment below.
La-140	Unknown.	Unknown.	T .09000000000000	CI	1971	1971	N	-20%	+20%	See comment below.
Ce-141	Unknown.	Unknown.	T .05000000000000	CI	1971	1971	N	-20%	+20%	See comment below.

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Co-58	Unknown.	Unknown.	T .94000000000000	CI	1971	1971	N	-20%	+20%	See comment below.
Co-60	Unknown.	Unknown.	T 2.3900000000000	CI	1971	1971	N	-20%	+20%	See comment below.
Hf-181	Unknown.	Unknown.	T .28000000000000	CI	1971	1971	N	-20%	+20%	See comment below.
I-131	Unknown.	Unknown.	T 1.4100000000000	CI	1971	1971	N	-20%	+20%	See comment below.
I-133	Unknown.	Unknown.	T .05000000000000	CI	1971	1971	N	-20%	+20%	See comment below.
Mn-54	Unknown.	Unknown.	T .12000000000000	CI	1971	1971	N	-20%	+20%	See comment below.
Mn-56	Unknown.	Unknown.	T 1.4800000000000	CI	1971	1971	N	-20%	+20%	See comment below.
U-235	Unknown.	Unknown.	T .00000041040000	CI	1971	1971	N	-20%	+20%	See comment below.
H-3	Unknown.	Unknown.	T .74190000000000	CI	1972	1972	N			See continuation page.

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C-14	Unknown.	Unknown.	T .09953000000000	CI	1972	1972	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 17.190000000000	CI	1972	1972	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00515700000000	CI	1972	1972	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 2.8950000000000	CI	1972	1972	N			See continuation page.
Co-60	Unknown.	Unknown.	T 6.0620000000000	CI	1972	1972	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00832400000000	CI	1972	1972	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00162900000000	CI	1972	1972	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000042345000	CI	1972	1972	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 1.8100000000000	CI	1972	1972	N			See continuation page.

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Ce-144	Unknown.	Unknown.	T .04253000000000	CI	1972	1972	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00002624000000	CI	1972	1972	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .08505000000000	CI	1972	1972	N			See continuation page.
U-234	Unknown.	Unknown.	T .00001900000000	CI	1972	1972	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000040720000	CI	1972	1972	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000723800000	CI	1972	1972	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00001176000000	CI	1972	1972	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00048860000000	CI	1972	1972	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00048860000000	CI	1972	1972	N			See continuation page.

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Pu-240	Unknown.	Unknown.	T .00005157000000	CI	1972	1972	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .05338000000000	CI	1972	1972	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00024430000000	CI	1972	1972	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00024430000000	CI	1972	1972	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00022620000000	CI	1972	1972	N			See continuation page.
Ra-226	Unknown.	Unknown.	T 1.2500000000000	CI	1972	1972	N	-20%	+20%	See comment below.
H-3	Unknown.	Unknown.	T .63680000000000	CI	1973	1973	N			See continuation page.
C-14	Unknown.	Unknown.	T .08542000000000	CI	1973	1973	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 14.760000000000	CI	1973	1973	N			See continuation page.

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Ni-59	Unknown.	Unknown.	T .00442700000000	CI	1973	1973	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 2.4850000000000	CI	1973	1973	N			See continuation page.
Co-60	Unknown.	Unknown.	T 5.2030000000000	CI	1973	1973	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00714500000000	CI	1973	1973	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00139800000000	CI	1973	1973	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000036342000	CI	1973	1973	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 1.5530000000000	CI	1973	1973	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .03650000000000	CI	1973	1973	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00002252000000	CI	1973	1973	N			See continuation page.

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Eu-155	Unknown.	Unknown.	T .07300000000000	CI	1973	1973	N			See continuation page.
U-234	Unknown.	Unknown.	T .00001631000000	CI	1973	1973	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000034950000	CI	1973	1973	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000621300000	CI	1973	1973	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .04582000000000	CI	1973	1973	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000037400000	CI	1973	1973	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00158100000000	CI	1973	1973	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00000680000000	CI	1973	1973	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000408000000	CI	1973	1973	N			See continuation page.

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Pu-242	Unknown.	Unknown.	T .00000004250000	CI	1973	1973	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000476000000	CI	1973	1973	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00002720000000	CI	1973	1973	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00007480000000	CI	1973	1973	N			See continuation page.
C-14	Unknown.	Unknown.	T .34000000000000	CI	1973	1973	N	-20%	+20%	See comment below.
Cr-51	Unknown.	Unknown.	T 3.0400000000000	CI	1973	1973	N	-20%	+20%	See comment below.
Fe-59	Unknown.	Unknown.	T .38000000000000	CI	1973	1973	N	-20%	+20%	See comment below.
H-3	Unknown.	Unknown.	T .27820000000000	CI	1974	1974	N			See continuation page.
C-14	Unknown.	Unknown.	T .03732000000000	CI	1974	1974	N			See continuation page.

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Fe-55	Unknown.	Unknown.	T 6.4470000000000	CI	1974	1974	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00193400000000	CI	1974	1974	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 1.0860000000000	CI	1974	1974	N			See continuation page.
Co-60	Unknown.	Unknown.	T 2.2730000000000	CI	1974	1974	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00312200000000	CI	1974	1974	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00061070000000	CI	1974	1974	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000015876000	CI	1974	1974	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .67860000000000	CI	1974	1974	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .01595000000000	CI	1974	1974	N			See continuation page.

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Eu-154	Unknown.	Unknown.	T .00000984000000	CI	1974	1974	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .03189000000000	CI	1974	1974	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000712500000	CI	1974	1974	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000015270000	CI	1974	1974	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000271400000	CI	1974	1974	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000441100000	CI	1974	1974	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00018320000000	CI	1974	1974	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00018320000000	CI	1974	1974	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00001934000000	CI	1974	1974	N			See continuation page.

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Pu-241	Unknown.	Unknown.	T .02002000000000	CI	1974	1974	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00009161000000	CI	1974	1974	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00009161000000	CI	1974	1974	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00008482000000	CI	1974	1974	N			See continuation page.
Ce-141	Unknown.	Unknown.	T .03000000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Co-60	Unknown.	Unknown.	T 2.7000000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Cr-51	Unknown.	Unknown.	T 2.6700000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Cs-137	Unknown.	Unknown.	T .05000000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Fe-59	Unknown.	Unknown.	T .33000000000000	CI	1974	1974	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	Unknown.	Unknown.	T .07000000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Zn-65	Unknown.	Unknown.	T .11000000000000	CI	1974	1974	N	-20%	+20%	See comment below.
H-3	Unknown.	Unknown.	T .16620000000000	CI	1975	1975	N			See continuation page.
C-14	Unknown.	Unknown.	T .02229000000000	CI	1975	1975	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 3.8510000000000	CI	1975	1975	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00115500000000	CI	1975	1975	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .64860000000000	CI	1975	1975	N			See continuation page.
Co-60	Unknown.	Unknown.	T 1.3580000000000	CI	1975	1975	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00186500000000	CI	1975	1975	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
Tc-99	Unknown.	Unknown.	T .00036480000000	CI	1975	1975	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000009486000	CI	1975	1975	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .40530000000000	CI	1975	1975	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00952600000000	CI	1975	1975	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000587800000	CI	1975	1975	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .01905000000000	CI	1975	1975	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000425600000	CI	1975	1975	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000009120000	CI	1975	1975	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000162100000	CI	1975	1975	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
Np-237	Unknown.	Unknown.	T .00000263500000	CI	1975	1975	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00010940000000	CI	1975	1975	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00010940000000	CI	1975	1975	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00001155000000	CI	1975	1975	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .01196000000000	CI	1975	1975	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00005472000000	CI	1975	1975	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00005472000000	CI	1975	1975	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00005067000000	CI	1975	1975	N			See continuation page.
H-3	Unknown.	Unknown.	T .17810000000000	CI	1976	1976	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
C-14	Unknown.	Unknown.	T .02389000000000	CI	1976	1976	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 4.1270000000000	CI	1976	1976	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00123800000000	CI	1976	1976	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .69500000000000	CI	1976	1976	N			See continuation page.
Co-60	Unknown.	Unknown.	T 1.4550000000000	CI	1976	1976	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00199800000000	CI	1976	1976	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00039090000000	CI	1976	1976	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000010161000	CI	1976	1976	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .43440000000000	CI	1976	1976	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
Ce-144	Unknown.	Unknown.	T .01021000000000	CI	1976	1976	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000629800000	CI	1976	1976	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .02042000000000	CI	1976	1976	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000456100000	CI	1976	1976	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000009770000	CI	1976	1976	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000173800000	CI	1976	1976	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000282300000	CI	1976	1976	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00011730000000	CI	1976	1976	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00011730000000	CI	1976	1976	N			See continuation page.

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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
Pu-240	Unknown.	Unknown.	T .00001238000000	CI	1976	1976	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .01281000000000	CI	1976	1976	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00005864000000	CI	1976	1976	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00005864000000	CI	1976	1976	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00005430000000	CI	1976	1976	N			See continuation page.
H-3	Unknown.	Unknown.	T .02636000000000	CI	1977	1977	N			See continuation page.
C-14	Unknown.	Unknown.	T .00353600000000	CI	1977	1977	N			See continuation page.
Fe-55	Unknown.	Unknown.	T .61070000000000	CI	1977	1977	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00018320000000	CI	1977	1977	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
Ni-63	Unknown.	Unknown.	T .10290000000000	CI	1977	1977	N			See continuation page.
Co-60	Unknown.	Unknown.	T .21530000000000	CI	1977	1977	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00029570000000	CI	1977	1977	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00005785000000	CI	1977	1977	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000001504000	CI	1977	1977	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .06428000000000	CI	1977	1977	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00151100000000	CI	1977	1977	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000093210000	CI	1977	1977	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00302100000000	CI	1977	1977	N			See continuation page.

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U-234	Unknown.	Unknown.	T .00000067500000	CI	1977	1977	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000001450000	CI	1977	1977	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000025710000	CI	1977	1977	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000041780000	CI	1977	1977	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00001736000000	CI	1977	1977	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00001736000000	CI	1977	1977	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000183200000	CI	1977	1977	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .00189600000000	CI	1977	1977	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000867800000	CI	1977	1977	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
Cm-242	Unknown.	Unknown.	T .00000867800000	CI	1977	1977	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00000803500000	CI	1977	1977	N			See continuation page.
H-3	Unknown.	Unknown.	T .02299000000000	CI	1978	1978	N			See continuation page.
C-14	Unknown.	Unknown.	T .00308400000000	CI	1978	1978	N			See continuation page.
Fe-55	Unknown.	Unknown.	T .53260000000000	CI	1978	1978	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00015980000000	CI	1978	1978	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .08971000000000	CI	1978	1978	N			See continuation page.
Co-60	Unknown.	Unknown.	T .18780000000000	CI	1978	1978	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00025790000000	CI	1978	1978	N			See continuation page.

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Tc-99	Unknown.	Unknown.	T .00005046000000	CI	1978	1978	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000001312000	CI	1978	1978	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .05607000000000	CI	1978	1978	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00131800000000	CI	1978	1978	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000081300000	CI	1978	1978	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00263500000000	CI	1978	1978	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000058870000	CI	1978	1978	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000001260000	CI	1978	1978	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000022430000	CI	1978	1978	N			See continuation page.

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Np-237	Unknown.	Unknown.	T .00000036440000	CI	1978	1978	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00001514000000	CI	1978	1978	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00001514000000	CI	1978	1978	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000159800000	CI	1978	1978	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .00165400000000	CI	1978	1978	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000756900000	CI	1978	1978	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00000756900000	CI	1978	1978	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00000700800000	CI	1978	1978	N			See continuation page.
Co-60	Unknown.	Unknown.	T 5108.4000000000	CI	1978	1978	N	-20%	+20%	See comment below.

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Sc-46	Unknown.	Unknown.	T 51.600000000000	CI	1978	1978	N	-20%	+20%	See comment below.
H-3	Unknown.	Unknown.	T .02721000000000	CI	1979	1979	N			See continuation page.
C-14	Unknown.	Unknown.	T .00365100000000	CI	1979	1979	N			See continuation page.
Fe-55	Unknown.	Unknown.	T .63060000000000	CI	1979	1979	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00018920000000	CI	1979	1979	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .10620000000000	CI	1979	1979	N			See continuation page.
Co-60	Unknown.	Unknown.	T .22240000000000	CI	1979	1979	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00030530000000	CI	1979	1979	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00005974000000	CI	1979	1979	N			See continuation page.

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I-129	Unknown.	Unknown.	T .00000001553000	CI	1979	1979	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .06638000000000	CI	1979	1979	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00156000000000	CI	1979	1979	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000096240000	CI	1979	1979	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00312000000000	CI	1979	1979	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000069690000	CI	1979	1979	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000001490000	CI	1979	1979	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000026550000	CI	1979	1979	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000043140000	CI	1979	1979	N			See continuation page.

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Pu-238	Unknown.	Unknown.	T .00001792000000	CI	1979	1979	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00001792000000	CI	1979	1979	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000189200000	CI	1979	1979	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .00195800000000	CI	1979	1979	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000896100000	CI	1979	1979	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00000896100000	CI	1979	1979	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00000829700000	CI	1979	1979	N			See continuation page.
H-3	Unknown.	Unknown.	T .07240000000000	CI	1980	1980	N			See continuation page.
C-14	Unknown.	Unknown.	T .00971300000000	CI	1980	1980	N			See continuation page.

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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
Fe-55	Unknown.	Unknown.	T 1.6780000000000	CI	1980	1980	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00050330000000	CI	1980	1980	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .28250000000000	CI	1980	1980	N			See continuation page.
Co-60	Unknown.	Unknown.	T .59160000000000	CI	1980	1980	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00081230000000	CI	1980	1980	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00015890000000	CI	1980	1980	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000004132000	CI	1980	1980	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .17660000000000	CI	1980	1980	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00415000000000	CI	1980	1980	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).

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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-154	Unknown.	Unknown.	T .00000256100000	CI	1980	1980	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00830000000000	CI	1980	1980	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000185400000	CI	1980	1980	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000003970000	CI	1980	1980	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000070460000	CI	1980	1980	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000114800000	CI	1980	1980	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00004768000000	CI	1980	1980	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00004768000000	CI	1980	1980	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000503300000	CI	1980	1980	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).

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	Unknown.	Unknown.	T .00520900000000	CI	1980	1980	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00002384000000	CI	1980	1980	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00002384000000	CI	1980	1980	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00002207000000	CI	1980	1980	N			See continuation page.
H-3	Unknown.	Unknown.	T .02130000000000	CI	1981	1981	N			See continuation page.
C-14	Unknown.	Unknown.	T .00285700000000	CI	1981	1981	N			See continuation page.
Fe-55	Unknown.	Unknown.	T .49340000000000	CI	1981	1981	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00014800000000	CI	1981	1981	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .08310000000000	CI	1981	1981	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).

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	Unknown.	Unknown.	T .17400000000000	CI	1981	1981	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00023890000000	CI	1981	1981	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00004675000000	CI	1981	1981	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000001215000	CI	1981	1981	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .05194000000000	CI	1981	1981	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00122100000000	CI	1981	1981	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000075310000	CI	1981	1981	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00244100000000	CI	1981	1981	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000054540000	CI	1981	1981	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
U-235	Unknown.	Unknown.	T .00000001170000	CI	1981	1981	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000020780000	CI	1981	1981	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000033760000	CI	1981	1981	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00001402000000	CI	1981	1981	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00001402000000	CI	1981	1981	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000148000000	CI	1981	1981	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .00153200000000	CI	1981	1981	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000701200000	CI	1981	1981	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00000701200000	CI	1981	1981	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
Cm-244	Unknown.	Unknown.	T .00000649200000	CI	1981	1981	N			See continuation page.
H-3	Unknown.	Unknown.	T .02301000000000	CI	1982	1982	N			See continuation page.
C-14	Unknown.	Unknown.	T .00308700000000	CI	1982	1982	N			See continuation page.
Fe-55	Unknown.	Unknown.	T .53310000000000	CI	1982	1982	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00015990000000	CI	1982	1982	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .08979000000000	CI	1982	1982	N			See continuation page.
Co-60	Unknown.	Unknown.	T .18800000000000	CI	1982	1982	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00025820000000	CI	1982	1982	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00005051000000	CI	1982	1982	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
I-129	Unknown.	Unknown.	T .00000001313000	CI	1982	1982	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .05612000000000	CI	1982	1982	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00131900000000	CI	1982	1982	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000081370000	CI	1982	1982	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00263800000000	CI	1982	1982	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000058930000	CI	1982	1982	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000001260000	CI	1982	1982	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000022450000	CI	1982	1982	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000036480000	CI	1982	1982	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-238	Unknown.	Unknown.	T .00001515000000	CI	1982	1982	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00001515000000	CI	1982	1982	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000159900000	CI	1982	1982	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .00165600000000	CI	1982	1982	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000757600000	CI	1982	1982	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00000757600000	CI	1982	1982	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00000701500000	CI	1982	1982	N			See continuation page.
H-3	Unknown.	Unknown.	T .00580600000000	CI	1983	1983	N			See continuation page.
C-14	Unknown.	Unknown.	T .00077890000000	CI	1983	1983	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
Fe-55	Unknown.	Unknown.	T .13450000000000	CI	1983	1983	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00004036000000	CI	1983	1983	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .02266000000000	CI	1983	1983	N			See continuation page.
Co-60	Unknown.	Unknown.	T .04744000000000	CI	1983	1983	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00006514000000	CI	1983	1983	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00001275000000	CI	1983	1983	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000000331000	CI	1983	1983	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .01416000000000	CI	1983	1983	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .00033280000000	CI	1983	1983	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-154	Unknown.	Unknown.	T .00000020530000	CI	1983	1983	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .00066560000000	CI	1983	1983	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000014870000	CI	1983	1983	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000000320000	CI	1983	1983	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000005660000	CI	1983	1983	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000009200000	CI	1983	1983	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00000382400000	CI	1983	1983	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00000382400000	CI	1983	1983	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00000040360000	CI	1983	1983	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
Pu-241	Unknown.	Unknown.	T .00041780000000	CI	1983	1983	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00000191200000	CI	1983	1983	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00000191200000	CI	1983	1983	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00000177000000	CI	1983	1983	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).

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-603-22H

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, unidentified beta and gamma.

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. Unidentified beta are MAP and MFP radionuclides. The unidentified gamma was chosen due to the area's 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, 1971-1983, 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 - 208

1. Preparer: Amaro, C.

2. Date prepared: 09/08/93

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:
23H

6. Waste stream:
Terphenyl (Santo-wax).

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

8. Actual years disposed of at SDA:
Starting year 1965 Ending year 1965

9. Waste stream volume:
Amount 100.0000 Units Gallons.
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)
Terphenyl.

2. Details on physical form(particularly confinement related)
Santo-wax was an organic moderator used in loops.

3. Chemical form:
Terphenyl.

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

5. Waste container type (see attached list)
Metal barrel*.

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BXC.

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
26140-60-3 Terphenyl	Wax.	C18H14.	A 447201.60000000	GM	1965	1965	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)
Best guess of former TRA employee.

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	Wax.	C18H14.	T .00071880000000	CI	1965	1965	N			See continuation page.
C-14	Wax.	C18H14.	T .00009643000000	CI	1965	1965	N			See continuation page.
Fe-55	Wax.	C18H14.	T .01666000000000	CI	1965	1965	N			See continuation page.
Ni-59	Wax.	C18H14.	T .00000499700000	CI	1965	1965	N			See continuation page.
Ni-63	Wax.	C18H14.	T .00280500000000	CI	1965	1965	N			See continuation page.
Co-60	Wax.	C18H14.	T .00587300000000	CI	1965	1965	N			See continuation page.
Sr-90	Wax.	C18H14.	T .00000806500000	CI	1965	1965	N			See continuation page.
Tc-99	Wax.	C18H14.	T .00000157800000	CI	1965	1965	N			See continuation page.
I-129	Wax.	C18H14.	T .00000000041000	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)

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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	Wax.	C18H14.	T .00175300000000	CI	1965	1965	N			See continuation page.
Ce-144	Wax.	C18H14.	T .00004120000000	CI	1965	1965	N			See continuation page.
Eu-154	Wax.	C18H14.	T .00000002540000	CI	1965	1965	N			See continuation page.
Eu-155	Wax.	C18H14.	T .00008240000000	CI	1965	1965	N			See continuation page.
U-234	Wax.	C18H14.	T .00000001840000	CI	1965	1965	N			See continuation page.
U-235	Wax.	C18H14.	T .00000000040000	CI	1965	1965	N			See continuation page.
U-236	Wax.	C18H14.	T .00000000700000	CI	1965	1965	N			See continuation page.
Np-237	Wax.	C18H14.	T .00000001140000	CI	1965	1965	N			See continuation page.
Pu-238	Wax.	C18H14.	T .00000047340000	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)

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	Wax.	C18H14.	T .00000047340000	CI	1965	1965	N			See continuation page.
Pu-240	Wax.	C18H14.	T .00000005000000	CI	1965	1965	N			See continuation page.
Pu-241	Wax.	C18H14.	T .00005172000000	CI	1965	1965	N			See continuation page.
Am-241	Wax.	C18H14.	T .00000023670000	CI	1965	1965	N			See continuation page.
Cm-242	Wax.	C18H14.	T .00000023670000	CI	1965	1965	N			See continuation page.
Cm-244	Wax.	C18H14.	T .00000021920000	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)

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-603-23H

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

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

2. Details concerning source (names, report no., dates, etc.)
Letter from P.D. Randolph to Bob Nitshke dated December 17, 1992.

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 half lives and cross sections. MFP products 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.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 197

1. Preparer: Amaro, C.

2. Date prepared: 09/01/93

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:
24H

6. Waste stream:
Gas bottles.

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

8. Actual years disposed of at SDA:
Starting year 1964 Ending year 1964

9. Waste stream volume:
Amount 6.1736 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)
Gas bottles.

2. Details on physical form(particularly confinement related)
Gas bottles (steel).

3. Chemical form:

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:
At least one of the gas bottles had ammonia.

7. Comments (specify number of pertinent question):
7. "Other" is the gas bottle 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
7664417 Ammonia	Liquid.	NH3.	A 777500.00000000	GM	1964	1964	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)

One entry, from RWMIS, said a gas bottle with ammonia, and no other information could be obtained. The entire shipment was entered as having ammonia.

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
H-3	Metal.	Unknown.	T .00563800000000	CI	1964	1964	N			See continuation page.
C-14	Metal.	Unknown.	T .00075630000000	CI	1964	1964	N			See continuation page.
Fe-55	Metal.	Unknown.	T .13060000000000	CI	1964	1964	N			See continuation page.
Ni-59	Metal.	Unknown.	T .00003919000000	CI	1964	1964	N			See continuation page.
Ni-63	Metal.	Unknown.	T .02200000000000	CI	1964	1964	N			See continuation page.
Co-60	Metal.	Unknown.	T .04607000000000	CI	1964	1964	N			See continuation page.
Sr-90	Metal.	Unknown.	T .00006325000000	CI	1964	1964	N			See continuation page.
Tc-99	Metal.	Unknown.	T .00001238000000	CI	1964	1964	N			See continuation page.
I-129	Metal.	Unknown.	T .00000000322000	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)

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	Metal.	Unknown.	T .01375000000000	CI	1964	1964	N			See continuation page.
Ce-144	Metal.	Unknown.	T .00032310000000	CI	1964	1964	N			See continuation page.
Eu-154	Metal.	Unknown.	T .00000019940000	CI	1964	1964	N			See continuation page.
Eu-155	Metal.	Unknown.	T .00064630000000	CI	1964	1964	N			See continuation page.
U-234	Metal.	Unknown.	T .00000014440000	CI	1964	1964	N			See continuation page.
U-235	Metal.	Unknown.	T .00000000310000	CI	1964	1964	N			See continuation page.
U-236	Metal.	Unknown.	T .00000005500000	CI	1964	1964	N			See continuation page.
Np-237	Metal.	Unknown.	T .00000008940000	CI	1964	1964	N			See continuation page.
Pu-238	Metal.	Unknown.	T .00000371300000	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)

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	Metal.	Unknown.	T .00000371300000	CI	1964	1964	N			See continuation page.
Pu-240	Metal.	Unknown.	T .00000039190000	CI	1964	1964	N			See continuation page.
Pu-241	Metal.	Unknown.	T .00040570000000	CI	1964	1964	N			See continuation page.
Am-241	Metal.	Unknown.	T .00000185600000	CI	1964	1964	N			See continuation page.
Cm-242	Metal.	Unknown.	T .00000185600000	CI	1964	1964	N			See continuation page.
Cm-244	Metal.	Unknown.	T .00000171900000	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)

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

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

2. Details concerning source (names, report no., dates, etc.)
Letter from P.D. Randolph on December 17, 1992 to Bob Nitshke.

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.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 144

1. Preparer: Amaro, C.

2. Date prepared: 08/27/93

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:
25H

6. Waste stream:
Sodium.

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 1960

9. Waste stream volume:
Amount 0.4531 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)
Sodium.

2. Details on physical form(particularly confinement related)
Sodium is a solid at temperatures below 100 degrees Celsius.

3. Chemical form:
Na - metal.

4. Inner packaging: [ ] plastic bag [X] plastic liner
[ ] metal liner [ ] 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", 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
7440-23-5 Sodium	Solid.	Na - Metal.	A 68040.000000000	GM	1960	1960	N	-10%	+10%	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)
Weight is taken from RWMIS. All shipments must be weighted prior to shipment. A 10% error was assigned because the particular scale used may have been read incorrectly.

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.	N/A.	T 8.2010000000000	CI	1960	1960	N	-50%	+50%	See comment below.
C-14	Solid.	N/A.	T 1.1000000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Fe-55	Solid.	N/A.	T 190.00000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Ni-59	Solid.	N/A.	T .05700000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Ni-63	Solid.	N/A.	T 32.000000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Co-60	Solid.	N/A.	T 67.000000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Sr-90	Solid.	N/A.	T .09201000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Tc-99	Solid.	N/A.	T .01800000000000	CI	1960	1960	N	-50%	+50%	See comment below.
I-129	Solid.	N/A.	T .00000468000000	CI	1960	1960	N	-50%	+50%	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)

Although the sample column says "N", a sample was probably analyzed by the Radiation Measurements Lab (RML) at TRA. A sodium iodide (NaI) detector was therefore used to count the sample. Because the NaI detectors have broad peaks, radionuclides may have been masked. The total activity is correct but individual radionuclide activity may be incorrect, therefore a 50% error was assigned.

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.	N/A.	T 20.000000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Ce-144	Solid.	N/A.	T .47000000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Eu-154	Solid.	N/A.	T .00029000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Eu-155	Solid.	N/A.	T .94010000000000	CI	1960	1960	N	-50%	+50%	See comment below.
U-234	Solid.	N/A.	T .00021000000000	CI	1960	1960	N	-50%	+50%	See comment below.
U-235	Solid.	N/A.	T .00000450000000	CI	1960	1960	N	-50%	+50%	See comment below.
U-236	Solid.	N/A.	T .00008001000000	CI	1960	1960	N	-50%	+50%	See comment below.
Np-237	Solid.	N/A.	T .00013000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Pu-238	Solid.	N/A.	T .00540000000000	CI	1960	1960	N	-50%	+50%	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)

Although the sample column says "N", a sample was probably analyzed by the Radiation Measurements Lab (RML) at TRA. A sodium iodide (NaI) detector was therefore used to count the sample. Because the NaI detectors have broad peaks, radionuclides may have been masked. The total activity is correct but individual radionuclide activity may be incorrect, therefore a 50% error was assigned.

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.	N/A.	T .00540000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Pu-240	Solid.	N/A.	T .00057000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Pu-241	Solid.	N/A.	T .59000000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Am-241	Solid.	N/A.	T .00270000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Cm-242	Solid.	N/A.	T .00270000000000	CI	1960	1960	N	-50%	+50%	See comment below.
Cm-244	Solid.	N/A.	T .00250000000000	CI	1960	1960	N	-50%	+50%	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)

Although the sample column says "N", a sample was probably analyzed by the Radiation Measurements Lab (RML) at TRA. A sodium iodide (NaI) detector was therefore used to count the sample. Because the NaI detectors have broad peaks, radionuclides may have been masked. The total activity is correct but individual radionuclide activity may be incorrect, therefore a 50% error was assigned.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-603-25H

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 unknown.

8. Key assumptions used to deal with the unknowns:
MAP radionuclides were chosen based on the cross sections and half lives. MFP products were chosen based on their fission products and half lives.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 232

1. Preparer: Amaro, C.

2. Date prepared: 03/09/94

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:
26H

6. Waste stream:
Lead.

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 1983

9. Waste stream volume:
Amount 115.4900 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)
Lead.
[ ] other (specify)

2. Details on physical form(particularly confinement related)

3. Chemical form:
Lead.

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):
5. "Other" and BXC; "Other" cannot be defined by the preparer of this report.
6. Some items were probably enclosed in a plastic liner or bag, however, some shipments probably weren't.

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
7439-92-1 Lead	Metal.	Lead.	A 7619900.0000000	GM	1960	1960	N			
7439-92-1 Lead	Metal.	Lead.	A 771100.00000000	GM	1962	1962	N			
7439-92-1 Lead	Metal.	Lead.	A 18140.000000000	GM	1965	1965	N			
7439-92-1 Lead	Metal.	Lead.	A 7711000.0000000	GM	1968	1968	N			
7439-92-1 Lead	Metal.	Lead.	A 6532000.0000000	GM	1970	1970	N			
7439-92-1 Lead	Metal.	Lead.	A 9165100.0000000	GM	1971	1971	N			
7439-92-1 Lead	Metal.	Lead.	A 12519300.000000	GM	1972	1972	N			
7439-92-1 Lead	Metal.	Lead.	A 5436000.0000000	GM	1974	1974	N			
7439-92-1 Lead	Metal.	Lead.	A 14786200.000000	GM	1976	1976	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)

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
7439-92-1 Lead	Metal.	Lead.	A 70080000.000000	GM	1980	1980	N			
7439-92-1 Lead	Metal.	Lead.	A 573800.00000000	GM	1981	1981	N			
7439-92-1 Lead	Metal.	Lead.	A 1134000.5000000	GM	1982	1982	N			
7439-92-1 Lead	Metal.	Lead.	A 1270520.0000000	GM	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)

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	Metal.	PbO.	T .41770000000000	CI	1960	1960	N			See continuation page.
C-14	Metal.	PbO.	T .05604000000000	CI	1960	1960	N			See continuation page.
Fe-55	Metal.	PbO.	T 9.6790000000000	CI	1960	1960	N			See continuation page.
Ni-59	Metal.	PbO.	T .00290400000000	CI	1960	1960	N			See continuation page.
Ni-63	Metal.	PbO.	T 1.6300000000000	CI	1960	1960	N			See continuation page.
Co-60	Metal.	PbO.	T 3.4130000000000	CI	1960	1960	N			See continuation page.
Sr-90	Metal.	PbO.	T .00468700000000	CI	1960	1960	N			See continuation page.
Tc-99	Metal.	PbO.	T .00091700000000	CI	1960	1960	N			See continuation page.
I-129	Metal.	PbO.	T .00000023841000	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)

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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
Cs-137	Metal.	PbO.	T 1.0190000000000	CI	1960	1960	N			See continuation page.
Ce-144	Metal.	PbO.	T .02394000000000	CI	1960	1960	N			See continuation page.
Eu-154	Metal.	PbO.	T .00001477000000	CI	1960	1960	N			See continuation page.
Eu-155	Metal.	PbO.	T .04789000000000	CI	1960	1960	N			See continuation page.
U-234	Metal.	PbO.	T .00001070000000	CI	1960	1960	N			See continuation page.
U-235	Metal.	PbO.	T .00000022930000	CI	1960	1960	N			See continuation page.
U-236	Metal.	PbO.	T .00000407600000	CI	1960	1960	N			See continuation page.
Np-237	Metal.	PbO.	T .00000662300000	CI	1960	1960	N			See continuation page.
Pu-238	Metal.	PbO.	T .00027510000000	CI	1960	1960	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	Metal.	PbO.	T .00027510000000	CI	1960	1960	N			See continuation page.
Pu-240	Metal.	PbO.	T .00002904000000	CI	1960	1960	N			See continuation page.
Pu-241	Metal.	PbO.	T .03006000000000	CI	1960	1960	N			See continuation page.
Am-241	Metal.	PbO.	T .00013760000000	CI	1960	1960	N			See continuation page.
Cm-242	Metal.	PbO.	T .00013760000000	CI	1960	1960	N			See continuation page.
Cm-244	Metal.	PbO.	T .00012740000000	CI	1960	1960	N			See continuation page.
H-3	Metal.	PbO.	T .00000820000000	CI	1962	1962	N			See continuation page.
C-14	Metal.	PbO.	T .00000110000000	CI	1962	1962	N			See continuation page.
Fe-55	Metal.	PbO.	T .00019000000000	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
Ni-59	Metal.	PbO.	T .00000005700000	CI	1962	1962	N			See continuation page.
Ni-63	Metal.	PbO.	T .00003200000000	CI	1962	1962	N			See continuation page.
Co-60	Metal.	PbO.	T .00006700000000	CI	1962	1962	N			See continuation page.
Sr-90	Metal.	PbO.	T .00000009200000	CI	1962	1962	N			See continuation page.
Tc-99	Metal.	PbO.	T .00000001800000	CI	1962	1962	N			See continuation page.
I-129	Metal.	PbO.	Unknown.	CI	1962	1962	N			See continuation page.
Cs-137	Metal.	PbO.	T .00002000000000	CI	1962	1962	N			See continuation page.
Ce-144	Metal.	PbO.	T .00000047000000	CI	1962	1962	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000000030000	CI	1962	1962	N			See continuation page.

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Eu-155	Metal.	PbO.	T .00000094000000	CI	1962	1962	N			See continuation page.
U-234	Metal.	PbO.	T .00000000020000	CI	1962	1962	N			See continuation page.
U-236	Metal.	PbO.	T .00000000010000	CI	1962	1962	N			See continuation page.
Np-237	Metal.	PbO.	T .00000000010000	CI	1962	1962	N			See continuation page.
Pu-238	Metal.	PbO.	T .00000000540000	CI	1962	1962	N			See continuation page.
Pu-239	Metal.	PbO.	T .00000000540000	CI	1962	1962	N			See continuation page.
Pu-240	Metal.	PbO.	T .00000000060000	CI	1962	1962	N			See continuation page.
Pu-241	Metal.	PbO.	T .00000059000000	CI	1962	1962	N			See continuation page.
Am-241	Metal.	PbO.	T .00000000270000	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
Cm-242	Metal.	PbO.	T .00000000270000	CI	1962	1962	N			See continuation page.
Cm-244	Metal.	PbO.	T .00000000250000	CI	1962	1962	N			See continuation page.
H-3	Metal.	PbO.	T .00009020000000	CI	1965	1965	N			See continuation page.
C-14	Metal.	PbO.	T .00001210000000	CI	1965	1965	N			See continuation page.
Fe-55	Metal.	PbO.	T .00209000000000	CI	1965	1965	N			See continuation page.
Ni-59	Metal.	PbO.	T .00000062700000	CI	1965	1965	N			See continuation page.
Ni-63	Metal.	PbO.	T .00035200000000	CI	1965	1965	N			See continuation page.
Co-60	Metal.	PbO.	T .00073700000000	CI	1965	1965	N			See continuation page.
Sr-90	Metal.	PbO.	T .00000101200000	CI	1965	1965	N			See continuation page.

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