Rocky Flats Plant

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 213

1. Preparer: Kudera, Don

2. Date prepared: 06/16/93

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

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

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

6. Waste stream:
Benelex and plexiglass.

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

8. Actual years disposed of at SDA:
Starting year 1954 Ending year 1970

9. Waste stream volume:
Amount 157.1000 Units Cubic meters.
Check box: [X] annual or [ ] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. Buildings 771 and 776.
6. Prior to 1971, this content code consisted mainly of plexiglass. This buried waste stream is similar to stored waste content code 464.
9. The data used to determine 1954-1970 waste is for 1971 to 1973 only (16 drums per year).

1. General physical form (see attached list)
Plastics.
[X] other (specify)
21.

2. Details on physical form(particularly confinement related)
Waste consists of Benelex (wood particle hardboard), plexiglass glove box windows, lead sheeting (1/8 to 1/4 inch thick,), leaded-glass may be present, fire retardant paint on the Benelex, and metal.

3. Chemical form:
Pu oxides.

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

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

6. Other characteristics of interest:
Content code 302 replaced content code 464 during 1973.

7. Comments (specify number of pertinent question):
4. Some waste may have been individually wrapped before being placed inside the drum and drum bags.

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.									0.00000000	

* 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)

Leaded glass in small amounts is found in this waste stream. Some drums may contain 1 to 2 quarts of absorbent (Oil-Dri). No hazardous material identified except as above.

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-238	Solid.	Oxides.	T .00342000000000	CI	1954	1954				
Pu-238	Solid.	Oxides.	T .01710000000000	CI	1955	1955				
Pu-238	Solid.	Oxides.	T .03440000000000	CI	1956	1956				
Pu-238	Solid.	Oxides.	T .04970000000000	CI	1957	1957				
Pu-238	Solid.	Oxides.	T .11500000000000	CI	1958	1958				
Pu-238	Solid.	Oxides.	T .12700000000000	CI	1959	1959				
Pu-238	Solid.	Oxides.	T .15000000000000	CI	1960	1960				
Pu-238	Solid.	Oxides.	T .13700000000000	CI	1961	1961				
Pu-238	Solid.	Oxides.	T .17900000000000	CI	1962	1962				

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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-238	Solid.	Oxides.	T .21700000000000	CI	1963	1963				
Pu-238	Solid.	Oxides.	T .18600000000000	CI	1964	1964				
Pu-238	Solid.	Oxides.	T .26800000000000	CI	1965	1965				
Pu-238	Solid.	Oxides.	T .32700000000000	CI	1966	1966				
Pu-238	Solid.	Oxides.	T .12600000000000	CI	1967	1967				
Pu-238	Solid.	Oxides.	T .05440000000000	CI	1968	1968				
Pu-238	Solid.	Oxides.	T .15800000000000	CI	1969	1969				
Pu-238	Solid.	Oxides.	T .20100000000000	CI	1970	1970				
Pu-239	Solid.	Oxides.	T .11600000000000	CI	1954	1954				

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If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)

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Pu-239	Solid.	Oxides.	T .58300000000000	CI	1955	1955				
Pu-239	Solid.	Oxides.	T 1.1700000000000	CI	1956	1956				
Pu-239	Solid.	Oxides.	T 1.7000000000000	CI	1957	1957				
Pu-239	Solid.	Oxides.	T 3.9400000000000	CI	1958	1958				
Pu-239	Solid.	Oxides.	T 4.3300000000000	CI	1959	1959				
Pu-239	Solid.	Oxides.	T 5.1200000000000	CI	1960	1960				
Pu-239	Solid.	Oxides.	T 4.6800000000000	CI	1961	1961				
Pu-239	Solid.	Oxides.	T 6.1000000000000	CI	1962	1962				
Pu-239	Solid.	Oxides.	T 7.4200000000000	CI	1963	1963				

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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.	Oxides.	T 6.3600000000000	CI	1964	1964				
Pu-239	Solid.	Oxides.	T 9.1400000000000	CI	1965	1965				
Pu-239	Solid.	Oxides.	T 11.200000000000	CI	1966	1966				
Pu-239	Solid.	Oxides.	T 4.2900000000000	CI	1967	1967				
Pu-239	Solid.	Oxides.	T 1.8600000000000	CI	1968	1968				
Pu-239	Solid.	Oxides.	T 5.3900000000000	CI	1969	1969				
Pu-239	Solid.	Oxides.	T 6.8600000000000	CI	1970	1970				
Pu-240	Solid.	Oxides.	T .02610000000000	CI	1954	1954				
Pu-240	Solid.	Oxides.	T .13000000000000	CI	1955	1955				

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Pu-240	Solid.	Oxides.	T .26300000000000	CI	1956	1956				
Pu-240	Solid.	Oxides.	T .38000000000000	CI	1957	1957				
Pu-240	Solid.	Oxides.	T .88300000000000	CI	1958	1958				
Pu-240	Solid.	Oxides.	T .96900000000000	CI	1959	1959				
Pu-240	Solid.	Oxides.	T 1.1500000000000	CI	1960	1960				
Pu-240	Solid.	Oxides.	T 1.0500000000000	CI	1961	1961				
Pu-240	Solid.	Oxides.	T 1.3600000000000	CI	1962	1962				
Pu-240	Solid.	Oxides.	T 1.6600000000000	CI	1963	1963				
Pu-240	Solid.	Oxides.	T 1.4200000000000	CI	1964	1964				

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Pu-240	Solid.	Oxides.	T 2.0500000000000	CI	1965	1965				
Pu-240	Solid.	Oxides.	T 2.5000000000000	CI	1966	1966				
Pu-240	Solid.	Oxides.	T .96100000000000	CI	1967	1967				
Pu-240	Solid.	Oxides.	T .41600000000000	CI	1968	1968				
Pu-240	Solid.	Oxides.	T 1.2100000000000	CI	1969	1969				
Pu-240	Solid.	Oxides.	T 1.5400000000000	CI	1970	1970				
Pu-241	Solid.	Oxides.	T .69800000000000	CI	1954	1954				
Pu-241	Solid.	Oxides.	T 3.4900000000000	CI	1955	1955				
Pu-241	Solid.	Oxides.	T 7.0200000000000	CI	1956	1956				

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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	Solid.	Oxides.	T 10.200000000000	CI	1957	1957				
Pu-241	Solid.	Oxides.	T 23.600000000000	CI	1958	1958				
Pu-241	Solid.	Oxides.	T 25.900000000000	CI	1959	1959				
Pu-241	Solid.	Oxides.	T 30.700000000000	CI	1960	1960				
Pu-241	Solid.	Oxides.	T 28.000000000000	CI	1961	1961				
Pu-241	Solid.	Oxides.	T 36.500000000000	CI	1962	1962				
Pu-241	Solid.	Oxides.	T 44.400000000000	CI	1963	1963				
Pu-241	Solid.	Oxides.	T 38.100000000000	CI	1964	1964				
Pu-241	Solid.	Oxides.	T 54.800000000000	CI	1965	1965				

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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	Solid.	Oxides.	T 66.800000000000	CI	1966	1966				
Pu-241	Solid.	Oxides.	T 25.700000000000	CI	1967	1967				
Pu-241	Solid.	Oxides.	T 11.100000000000	CI	1968	1968				
Pu-241	Solid.	Oxides.	T 32.300000000000	CI	1969	1969				
Pu-241	Solid.	Oxides.	T 41.100000000000	CI	1970	1970				
Pu-242	Solid.	Oxides.	T .00000157000000	CI	1954	1954				
Pu-242	Solid.	Oxides.	T .00000784000000	CI	1955	1955				
Pu-242	Solid.	Oxides.	T .00001580000000	CI	1956	1956				
Pu-242	Solid.	Oxides.	T .00002280000000	CI	1957	1957				

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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	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-242	Solid.	Oxides.	T .00005300000000	CI	1958	1958				
Pu-242	Solid.	Oxides.	T .00005820000000	CI	1959	1959				
Pu-242	Solid.	Oxides.	T .00006890000000	CI	1960	1960				
Pu-242	Solid.	Oxides.	T .00006300000000	CI	1961	1961				
Pu-242	Solid.	Oxides.	T .00008200000000	CI	1962	1962				
Pu-242	Solid.	Oxides.	T .00009970000000	CI	1963	1963				
Pu-242	Solid.	Oxides.	T .00008550000000	CI	1964	1964				
Pu-242	Solid.	Oxides.	T .00012300000000	CI	1965	1965				
Pu-242	Solid.	Oxides.	T .00015000000000	CI	1966	1966				

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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-242	Solid.	Oxides.	T .00005770000000	CI	1967	1967				
Pu-242	Solid.	Oxides.	T .00002500000000	CI	1968	1968				
Pu-242	Solid.	Oxides.	T .00007250000000	CI	1969	1969				
Pu-242	Solid.	Oxides.	T .00009230000000	CI	1970	1970				

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Additional information or explanations (indicate pertinent contaminant)

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

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

2. Details concerning source (names, report no., dates, etc.)
WM-F1-82-021, October 1982, "Content Code Assessment for INEL Contact-Handled Stored Transuranic Waste", Thomas L. Clements Jr.
EDF-RWMC-369.

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
[ ] yes

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:

8. Key assumptions used to deal with the unknowns:
The stored waste data was extrapolated to estimate the buried waste amounts.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 214

1. Preparer: Kudera, Don

2. Date prepared: 01/10/94

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

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

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

6. Waste stream:
Cemented sludges.

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

8. Actual years disposed of at SDA:
Starting year 1954 Ending year 1970

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

10. Comments (specify number of pertinent question):
4. Building 771.
6. This buried waste stream is similar to stored waste content code #4.
9. 124 55-gallon drums per year.

1. General physical form (see attached list)
Other liquid setups.
[ ] other (specify)

2. Details on physical form(particularly confinement related)
Liquids mixed with cement to form a solid monolith.

3. Chemical form:
Liquid solution made basic and containing Pu, Am, and complexing agents such as organic acids and EDTA. This solution is made into a cemented monolith with Portland cement and pipe insulation cement.

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

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

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-VER. Versenes	Liquid.		Unknown.	GM	1954	1970			0.00000000	
None-ORG. Organic Acids	Liquid.		Unknown.	GM	1954	1970			0.00000000	
None-ALC. Alcohols	Liquid.		Unknown.	GM	1954	1970			0.00000000	

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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
Pu-238			T .01470000000000	CI	1954	1954				
Pu-238			T .07350000000000	CI	1955	1955				
Pu-238			T .14800000000000	CI	1956	1956				
Pu-238			T .21400000000000	CI	1957	1957				
Pu-238			T .49700000000000	CI	1958	1958				
Pu-238			T .54600000000000	CI	1959	1959				
Pu-238			T .64600000000000	CI	1960	1960				
Pu-238			T .59100000000000	CI	1961	1961				
Pu-238			T .76900000000000	CI	1962	1962				

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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			T .93600000000000	CI	1963	1963				
Pu-238			T .80200000000000	CI	1964	1964				
Pu-238			T 1.1500000000000	CI	1965	1965				
Pu-238			T 1.4100000000000	CI	1966	1966				
Pu-238			T .54100000000000	CI	1967	1967				
Pu-238			T .23400000000000	CI	1968	1968				
Pu-238			T .68000000000000	CI	1969	1969				
Pu-238			T .86600000000000	CI	1970	1970				
Pu-239			T .50200000000000	CI	1954	1954				

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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			T 2.5100000000000	CI	1955	1955				
Pu-239			T 5.0500000000000	CI	1956	1956				
Pu-239			T 7.3100000000000	CI	1957	1957				
Pu-239			T 17.000000000000	CI	1958	1958				
Pu-239			T 18.600000000000	CI	1959	1959				
Pu-239			T 22.000000000000	CI	1960	1960				
Pu-239			T 20.200000000000	CI	1961	1961				
Pu-239			T 26.200000000000	CI	1962	1962				
Pu-239			T 31.900000000000	CI	1963	1963				

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Pu-239			T 27.400000000000	CI	1964	1964				
Pu-239			T 39.400000000000	CI	1965	1965				
Pu-239			T 48.100000000000	CI	1966	1966				
Pu-239			T 18.500000000000	CI	1967	1967				
Pu-239			T 8.0000000000000	CI	1968	1968				
Pu-239			T 23.200000000000	CI	1969	1969				
Pu-239			T 29.600000000000	CI	1970	1970				
Pu-240			T .11200000000000	CI	1954	1954				
Pu-240			T .56200000000000	CI	1955	1955				

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-240			T 1.1300000000000	CI	1956	1956				
Pu-240			T 1.6400000000000	CI	1957	1957				
Pu-240			T 3.8000000000000	CI	1958	1958				
Pu-240			T 4.1700000000000	CI	1959	1959				
Pu-240			T 4.9400000000000	CI	1960	1960				
Pu-240			T 4.5200000000000	CI	1961	1961				
Pu-240			T 5.8800000000000	CI	1962	1962				
Pu-240			T 7.1500000000000	CI	1963	1963				
Pu-240			T 6.1300000000000	CI	1964	1964				

* 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-240			T 8.8200000000000	CI	1965	1965				
Pu-240			T 10.800000000000	CI	1966	1966				
Pu-240			T 4.1400000000000	CI	1967	1967				
Pu-240			T 1.7900000000000	CI	1968	1968				
Pu-240			T 5.2000000000000	CI	1969	1969				
Pu-240			T 6.6200000000000	CI	1970	1970				
Pu-241			T 3.0000000000000	CI	1954	1954				
Pu-241			T 15.000000000000	CI	1955	1955				
Pu-241			T 30.200000000000	CI	1956	1956				

* 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-241			T 43.800000000000	CI	1957	1957				
Pu-241			T 102.00000000000	CI	1958	1958				
Pu-241			T 112.00000000000	CI	1959	1959				
Pu-241			T 132.00000000000	CI	1960	1960				
Pu-241			T 121.00000000000	CI	1961	1961				
Pu-241			T 157.00000000000	CI	1962	1962				
Pu-241			T 191.00000000000	CI	1963	1963				
Pu-241			T 164.00000000000	CI	1964	1964				
Pu-241			T 236.00000000000	CI	1965	1965				

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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-241			T 288.00000000000	CI	1966	1966				
Pu-241			T 111.00000000000	CI	1967	1967				
Pu-241			T 47.900000000000	CI	1968	1968				
Pu-241			T 139.00000000000	CI	1969	1969				
Pu-241			T 177.00000000000	CI	1970	1970				
Pu-242			T .00000675000000	CI	1954	1954				
Pu-242			T .00003370000000	CI	1955	1955				
Pu-242			T .00006790000000	CI	1956	1956				
Pu-242			T .00009830000000	CI	1957	1957				

* 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-242			T .00022800000000	CI	1958	1958				
Pu-242			T .00025000000000	CI	1959	1959				
Pu-242			T .00029600000000	CI	1960	1960		*		
Pu-242			T .00027100000000	CI	1961	1961				
Pu-242			T .00035300000000	CI	1962	1962				
Pu-242			T .00042900000000	CI	1963	1963				
Pu-242			T .00036800000000	CI	1964	1964				
Pu-242			T .00052900000000	CI	1965	1965				
Pu-242			T .00064600000000	CI	1966	1966				

* 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-242			T .00024800000000	CI	1967	1967				
Pu-242			T .00010800000000	CI	1968	1968				
Pu-242			T .00031200000000	CI	1969	1969				
Pu-242			T .00039700000000	CI	1970	1970				

* 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 - RFO-DOW-2H

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

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

2. Details concerning source (names, report no., dates, etc.)
WM-F1-82-021. EDF-369.

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
[ ] yes

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:

8. Key assumptions used to deal with the unknowns:
The stored waste data was extrapolated to estimate the buried waste amounts.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 215

1. Preparer: Kudera, Don

2. Date prepared: 01/10/94

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

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

5. Number of waste stream from this facility:
3H

6. Waste stream:
Uncemented sludges.

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

8. Actual years disposed of at SDA:
Starting year 1954 Ending year 1970

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

10. Comments (specify number of pertinent question):
4. Building 774.
6. This buried waste stream is similar to stored waste content codes 1, 2, and 290.
9. 769 55-gallon drums/year.

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

2. Details on physical form(particularly confinement related)
Sludge - cement added, oil-dri added.

3. Chemical form:
Hydrated oxides of Pu and AM (PuO_2+2H_2O) in sludge. After drying, it would be PuO_2.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
4. Two plastic bags were used in packaging.

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
1309-48-4 Magnesium Oxide	Solid.	Oxide.	Unknown.	GM	1954	1970	N		0.00000000	
1330-20-7 Xylene	Liquid.		T 964.00000000000	GM	1954	1954			964.000000	
1330-20-7 Xylene	Liquid.		T 4820.0000000000	GM	1955	1955			4820.00000	
1330-20-7 Xylene	Liquid.		T 9700.0000000000	GM	1956	1956			9700.00000	
1330-20-7 Xylene	Liquid.		T 14000.000000000	GM	1957	1957			14000.0000	
1330-20-7 Xylene	Liquid.		T 32600.000000000	GM	1958	1958			32600.0000	
1330-20-7 Xylene	Liquid.		T 35800.000000000	GM	1959	1959			35800.0000	
1330-20-7 Xylene	Liquid.		T 42300.000000000	GM	1960	1960			42300.0000	
1330-20-7 Xylene	Liquid.		T 38700.000000000	GM	1961	1961			38700.0000	

* 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)
Also contains unknown quantities of calcium oxide and flocculating agents.

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
1330-20-7 Xylene	Liquid.		T 50400.000000000	GM	1962	1962			50400.0000	
1330-20-7 Xylene	Liquid.		T 61300.000000000	GM	1963	1963			61300.0000	
1330-20-7 Xylene	Liquid.		T 52600.000000000	GM	1964	1964			52600.0000	
1330-20-7 Xylene	Liquid.		T 75600.000000000	GM	1965	1965			75600.0000	
1330-20-7 Xylene	Liquid.		T 92300.000000000	GM	1966	1966			92300.0000	
1330-20-7 Xylene	Liquid.		T 35500.000000000	GM	1967	1967			35500.0000	
1330-20-7 Xylene	Liquid.		T 15400.000000000	GM	1968	1968			15400.0000	
1330-20-7 Xylene	Liquid.		T 44600.000000000	GM	1969	1969			44600.0000	
1330-20-7 Xylene	Liquid.		T 56700.000000000	GM	1970	1970			56700.0000	

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Additional information or explanations (indicate pertinent contaminant)
Also contains unknown quantities of calcium oxide and flocculating agents.

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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
56-23-5 Carbon Tetrachloride	Liquid.		T 434.00000000000	GM	1954	1954			434.000000	
56-23-5 Carbon Tetrachloride	Liquid.		T 2170.0000000000	GM	1955	1955			2170.00000	
56-23-5 Carbon Tetrachloride	Liquid.		T 4370.0000000000	GM	1956	1956			4370.00000	
56-23-5 Carbon Tetrachloride	Liquid.		T 6320.0000000000	GM	1957	1957			6320.00000	
56-23-5 Carbon Tetrachloride	Liquid.		T 14700.000000000	GM	1958	1958			14700.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 16100.000000000	GM	1959	1959			16100.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 19100.000000000	GM	1960	1960			19100.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 17400.000000000	GM	1961	1961			17400.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 22700.000000000	GM	1962	1962			22700.0000	

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56-23-5 Carbon Tetrachloride	Liquid.		T 27600.000000000	GM	1963	1963			27600.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 23700.000000000	GM	1964	1964			23700.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 34000.000000000	GM	1965	1965			34000.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 41600.000000000	GM	1966	1966			41600.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 16000.000000000	GM	1967	1967			16000.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 6920.0000000000	GM	1968	1968			6920.00000	
56-23-5 Carbon Tetrachloride	Liquid.		T 20100.000000000	GM	1969	1969			20100.0000	
56-23-5 Carbon Tetrachloride	Liquid.		T 25600.000000000	GM	1970	1970			25600.0000	
67-56-1 Methyl Alcohol	Liquid.		T 434.00000000000	GM	1954	1954			434.000000	

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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
67-56-1 Methyl Alcohol	Liquid.		T 2170.0000000000	GM	1955	1955			2170.00000	
67-56-1 Methyl Alcohol	Liquid.		T 4370.0000000000	GM	1956	1956			4370.00000	
67-56-1 Methyl Alcohol	Liquid.		T 6320.0000000000	GM	1957	1957			6320.00000	
67-56-1 Methyl Alcohol	Liquid.		T 14700.000000000	GM	1958	1958			14700.0000	
67-56-1 Methyl Alcohol	Liquid.		T 16100.000000000	GM	1959	1959			16100.0000	
67-56-1 Methyl Alcohol	Liquid.		T 19100.000000000	GM	1960	1960			19100.0000	
67-56-1 Methyl Alcohol	Liquid.		T 17400.000000000	GM	1961	1961			17400.0000	
67-56-1 Methyl Alcohol	Liquid.		T 22700.000000000	GM	1962	1962			22700.0000	
67-56-1 Methyl Alcohol	Liquid.		T 27600.000000000	GM	1963	1963			27600.0000	

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67-56-1 Methyl Alcohol	Liquid.		T 23700.000000000	GM	1964	1964			23700.0000	
67-56-1 Methyl Alcohol	Liquid.		T 34000.000000000	GM	1965	1965			34000.0000	
67-56-1 Methyl Alcohol	Liquid.		T 41600.000000000	GM	1966	1966			41600.0000	
67-56-1 Methyl Alcohol	Liquid.		T 16000.000000000	GM	1967	1967			16000.0000	
67-56-1 Methyl Alcohol	Liquid.		T 6920.0000000000	GM	1968	1968			6920.00000	
67-56-1 Methyl Alcohol	Liquid.		T 20100.000000000	GM	1969	1969			20100.0000	
67-56-1 Methyl Alcohol	Liquid.		T 25600.000000000	GM	1970	1970			25600.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 1430.0000000000	GM	1954	1954			1430.00000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 7150.0000000000	GM	1955	1955			7150.00000	

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71-55-6 1,1,1-Trichloroethane	Liquid.		T 14400.000000000	GM	1956	1956			14400.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 20800.000000000	GM	1957	1957			20800.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 48400.000000000	GM	1958	1958			48400.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 53100.000000000	GM	1959	1959			53100.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 62800.000000000	GM	1960	1960			62800.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 57500.000000000	GM	1961	1961			57500.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 74800.000000000	GM	1962	1962			74800.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 91000.000000000	GM	1963	1963			91000.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 78000.000000000	GM	1964	1964			78000.0000	

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Additional information or explanations (indicate pertinent contaminant)

Also contains unknown quantities of calcium oxide and flocculating agents.

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71-55-6 1,1,1-Trichloroethane	Liquid.		T 112000.00000000	GM	1965	1965			112000.000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 137000.00000000	GM	1966	1966			137000.000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 52600.000000000	GM	1967	1967			52600.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 22800.000000000	GM	1968	1968			22800.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 66200.000000000	GM	1969	1969			66200.0000	
71-55-6 1,1,1-Trichloroethane	Liquid.		T 84200.000000000	GM	1970	1970			84200.0000	
71363 Butyl Alcohol	Liquid.		T 193.00000000000	GM	1954	1954			193.000000	
71363 Butyl Alcohol	Liquid.		T 964.00000000000	GM	1955	1955			964.000000	
71363 Butyl Alcohol	Liquid.		T 1940.0000000000	GM	1956	1956			1940.00000	

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71363 Butyl Alcohol	Liquid.		T 2810.0000000000	GM	1957	1957			2810.00000	
71363 Butyl Alcohol	Liquid.		T 6520.0000000000	GM	1958	1958			6520.00000	
71363 Butyl Alcohol	Liquid.		T 7160.0000000000	GM	1959	1959			7160.00000	
71363 Butyl Alcohol	Liquid.		T 8470.0000000000	GM	1960	1960			8470.00000	
71363 Butyl Alcohol	Liquid.		T 7750.0000000000	GM	1961	1961			7750.00000	
71363 Butyl Alcohol	Liquid.		T 10100.000000000	GM	1962	1962			10100.0000	
71363 Butyl Alcohol	Liquid.		T 12300.000000000	GM	1963	1963			12300.0000	
71363 Butyl Alcohol	Liquid.		T 10500.000000000	GM	1964	1964			10500.0000	
71363 Butyl Alcohol	Liquid.		T 15100.000000000	GM	1965	1965			15100.0000	

* 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.
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Additional information or explanations (indicate pertinent contaminant)
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71363 Butyl Alcohol	Liquid.		T 18400.000000000	GM	1966	1966			18400.0000	
71363 Butyl Alcohol	Liquid.		T 7100.0000000000	GM	1967	1967			7100.00000	
71363 Butyl Alcohol	Liquid.		T 3070.0000000000	GM	1968	1968			3070.00000	
71363 Butyl Alcohol	Liquid.		T 8920.0000000000	GM	1969	1969			8920.00000	
71363 Butyl Alcohol	Liquid.		T 11300.000000000	GM	1970	1970			11300.0000	
7439-92-1 Lead	Solid.	Oxide.	T 193.00000000000	GM	1954	1954			386.000000	
7439-92-1 Lead	Solid.	Oxide.	T 964.00000000000	GM	1955	1955			1928.00000	
7439-92-1 Lead	Solid.	Oxide.	T 1940.0000000000	GM	1956	1956			3880.00000	
7439-92-1 Lead	Solid.	Oxide.	T 2810.0000000000	GM	1957	1957			5620.00000	

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Additional information or explanations (indicate pertinent contaminant)
Also contains unknown quantities of calcium oxide and flocculating agents.

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7439-92-1 Lead	Solid.	Oxide.	T 6520.0000000000	GM	1958	1958			13040.0000	
7439-92-1 Lead	Solid.	Oxide.	T 7160.0000000000	GM	1959	1959			14320.0000	
7439-92-1 Lead	Solid.	Oxide.	T 8470.0000000000	GM	1960	1960			16940.0000	
7439-92-1 Lead	Solid.	Oxide.	T 7750.0000000000	GM	1961	1961			15500.0000	
7439-92-1 Lead	Solid.	Oxide.	T 10100.000000000	GM	1962	1962			20200.0000	
7439-92-1 Lead	Solid.	Oxide.	T 12300.000000000	GM	1963	1963			24600.0000	
7439-92-1 Lead	Solid.	Oxide.	T 10500.000000000	GM	1964	1964			21000.0000	
7439-92-1 Lead	Solid.	Oxide.	T 15100.000000000	GM	1965	1965			30200.0000	
7439-92-1 Lead	Solid.	Oxide.	T 18400.000000000	GM	1966	1966			36800.0000	

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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	Solid.	Oxide.	T 7100.0000000000	GM	1967	1967			14200.0000	
7439-92-1 Lead	Solid.	Oxide.	T 3070.0000000000	GM	1968	1968			6140.00000	
7439-92-1 Lead	Solid.	Oxide.	T 8920.0000000000	GM	1969	1969			17840.0000	
7439-92-1 Lead	Solid.	Oxide.	T 11300.000000000	GM	1970	1970			22600.0000	
7440-43-9 Cadmium	Solid.		T 96.400000000000	GM	1954	1954			192.800000	
7440-43-9 Cadmium	Solid.		T 482.00000000000	GM	1955	1955			964.000000	
7440-43-9 Cadmium	Solid.		T 970.00000000000	GM	1956	1956			1940.00000	
7440-43-9 Cadmium	Solid.		T 1400.0000000000	GM	1957	1957			2800.00000	
7440-43-9 Cadmium	Solid.		T 3260.0000000000	GM	1958	1958			6520.00000	

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7440-43-9 Cadmium	Solid.		T 3580.0000000000	GM	1959	1959			7160.00000	
7440-43-9 Cadmium	Solid.		T 4230.0000000000	GM	1960	1960			8460.00000	
7440-43-9 Cadmium	Solid.		T 3870.0000000000	GM	1961	1961			7740.00000	
7440-43-9 Cadmium	Solid.		T 5040.0000000000	GM	1962	1962			10080.0000	
7440-43-9 Cadmium	Solid.		T 6130.0000000000	GM	1963	1963			12260.0000	
7440-43-9 Cadmium	Solid.		T 5260.0000000000	GM	1964	1964			10520.0000	
7440-43-9 Cadmium	Solid.		T 7560.0000000000	GM	1965	1965			15120.0000	
7440-43-9 Cadmium	Solid.		T 9230.0000000000	GM	1966	1966			18460.0000	
7440-43-9 Cadmium	Solid.		T 3550.0000000000	GM	1967	1967			7100.00000	

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7440-43-9 Cadmium	Solid.		T 1540.0000000000	GM	1968	1968			3080.00000	
7440-43-9 Cadmium	Solid.		T 4460.0000000000	GM	1969	1969			8920.00000	
7440-43-9 Cadmium	Solid.		T 5670.0000000000	GM	1970	1970			11340.0000	
75-09-2 Methylene Chloride	Liquid.		T 14400.000000000	GM	1954	1954			14400.0000	
75-09-2 Methylene Chloride	Liquid.		T 72300.000000000	GM	1955	1955			72300.0000	
75-09-2 Methylene Chloride	Liquid.		T 145000.00000000	GM	1956	1956			145000.000	
75-09-2 Methylene Chloride	Liquid.		T 210000.00000000	GM	1957	1957			210000.000	
75-09-2 Methylene Chloride	Liquid.		T 489000.00000000	GM	1958	1958			489000.000	
75-09-2 Methylene Chloride	Liquid.		T 537000.00000000	GM	1959	1959			537000.000	

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75-09-2 Methylene Chloride	Liquid.		T 635000.00000000	GM	1960	1960			635000.000	
75-09-2 Methylene Chloride	Liquid.		T 581000.00000000	GM	1961	1961			581000.000	
75-09-2 Methylene Chloride	Liquid.		T 756000.00000000	GM	1962	1962			756000.000	
75-09-2 Methylene Chloride	Liquid.		T 920000.00000000	GM	1963	1963			920000.000	
75-09-2 Methylene Chloride	Liquid.		T 789000.00000000	GM	1964	1964			789000.000	
75-09-2 Methylene Chloride	Liquid.		T 1130000.0000000	GM	1965	1965			1130000.00	
75-09-2 Methylene Chloride	Liquid.		T 1380000.0000000	GM	1966	1966			1380000.00	
75-09-2 Methylene Chloride	Liquid.		T 532000.00000000	GM	1967	1967			532000.000	
75-09-2 Methylene Chloride	Liquid.		T 230000.00000000	GM	1968	1968			230000.000	

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75-09-2 Methylene Chloride	Liquid.		T 669000.00000000	GM	1969	1969			669000.000	
75-09-2 Methylene Chloride	Liquid.		T 851000.00000000	GM	1970	1970			851000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 1930.0000000000	GM	1954	1954			1930.00000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 9640.0000000000	GM	1955	1955			9640.00000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 19400.000000000	GM	1956	1956			19400.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 28100.000000000	GM	1957	1957			28100.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 65200.000000000	GM	1958	1958			65200.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 71600.000000000	GM	1959	1959			71600.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 84700.000000000	GM	1960	1960			84700.0000	

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76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 77500.000000000	GM	1961	1961			77500.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 101000.00000000	GM	1962	1962			101000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 123000.00000000	GM	1963	1963			123000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 105000.00000000	GM	1964	1964			105000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 151000.00000000	GM	1965	1965			151000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 184000.00000000	GM	1966	1966			184000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 71000.000000000	GM	1967	1967			71000.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 30700.000000000	GM	1968	1968			30700.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 89200.000000000	GM	1969	1969			89200.0000	

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76131 1,1,2-Trichloro-1,2,2-Trifluor	Liquid.		T 113000.00000000	GM	1970	1970			113000.000	
12057-24-8 Lithium Oxide	Solid.	Oxide.	Unknown.	GM	1954	1970	N		0.00000000	
7439-97-6 Mercury	Liquid.	Metal.	Unknown.	GM	1954	1970	N		0.00000000	
1304-56-9 Beryllium Oxide	Solid.	Oxide.	Unknown.	GM	1954	1970	N		0.00000000	

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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.	Oxides.	T 283.00000000000	CI	1954	1954				
Am-241	Solid.	Oxides.	T 848.00000000000	CI	1955	1955				
Am-241	Solid.	Oxides.	T 1700.0000000000	CI	1956	1956				
Am-241	Solid.	Oxides.	T 2540.0000000000	CI	1957	1957				
Am-241	Solid.	Oxides.	T 6220.0000000000	CI	1958	1958				
Am-241	Solid.	Oxides.	T 6780.0000000000	CI	1959	1959				
Am-241	Solid.	Oxides.	T 7910.0000000000	CI	1960	1960				
Am-241	Solid.	Oxides.	T 7350.0000000000	CI	1961	1961				
Am-241	Solid.	Oxides.	T 9330.0000000000	CI	1962	1962				

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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.	Oxides.	T 11600.000000000	CI	1963	1963				
Am-241	Solid.	Oxides.	T 9890.0000000000	CI	1964	1964				
Am-241	Solid.	Oxides.	T 14100.000000000	CI	1965	1965				
Am-241	Solid.	Oxides.	T 17200.000000000	CI	1966	1966				
Am-241	Solid.	Oxides.	T 6780.0000000000	CI	1967	1967				
Am-241	Solid.	Oxides.	T 2830.0000000000	CI	1968	1968				
Am-241	Solid.	Oxides.	T 8480.0000000000	CI	1969	1969				
Am-241	Solid.	Oxides.	T 10700.000000000	CI	1970	1970				
Pu-238	Solid.	Oxides.	T .41400000000000	CI	1954	1954				

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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	Solid.	Oxides.	T 2.0700000000000	CI	1955	1955				
Pu-238	Solid.	Oxides.	T 4.1600000000000	CI	1956	1956				
Pu-238	Solid.	Oxides.	T 6.0300000000000	CI	1957	1957				
Pu-238	Solid.	Oxides.	T 14.000000000000	CI	1958	1958				
Pu-238	Solid.	Oxides.	T 15.400000000000	CI	1959	1959				
Pu-238	Solid.	Oxides.	T 18.200000000000	CI	1960	1960				
Pu-238	Solid.	Oxides.	T 16.600000000000	CI	1961	1961				
Pu-238	Solid.	Oxides.	T 21.600000000000	CI	1962	1962				
Pu-238	Solid.	Oxides.	T 26.300000000000	CI	1963	1963				

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Pu-238	Solid.	Oxides.	T 22.600000000000	CI	1964	1964				
Pu-238	Solid.	Oxides.	T 32.500000000000	CI	1965	1965				
Pu-238	Solid.	Oxides.	T 39.600000000000	CI	1966	1966				
Pu-238	Solid.	Oxides.	T 15.200000000000	CI	1967	1967				
Pu-238	Solid.	Oxides.	T 6.6000000000000	CI	1968	1968				
Pu-238	Solid.	Oxides.	T 19.100000000000	CI	1969	1969				
Pu-238	Solid.	Oxides.	T 24.400000000000	CI	1970	1970				
Pu-239	Solid.	Oxides.	T 14.100000000000	CI	1954	1954				
Pu-239	Solid.	Oxides.	T 70.600000000000	CI	1955	1955				

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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.	Oxides.	T 142.00000000000	CI	1956	1956				
Pu-239	Solid.	Oxides.	T 206.00000000000	CI	1957	1957				
Pu-239	Solid.	Oxides.	T 478.00000000000	CI	1958	1958				
Pu-239	Solid.	Oxides.	T 524.00000000000	CI	1959	1959				
Pu-239	Solid.	Oxides.	T 621.00000000000	CI	1960	1960				
Pu-239	Solid.	Oxides.	T 568.00000000000	CI	1961	1961				
Pu-239	Solid.	Oxides.	T 739.00000000000	CI	1962	1962				
Pu-239	Solid.	Oxides.	T 899.00000000000	CI	1963	1963				
Pu-239	Solid.	Oxides.	T 771.00000000000	CI	1964	1964				

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Pu-239	Solid.	Oxides.	T 1110.0000000000	CI	1965	1965				
Pu-239	Solid.	Oxides.	T 1350.0000000000	CI	1966	1966				
Pu-239	Solid.	Oxides.	T 520.00000000000	CI	1967	1967				
Pu-239	Solid.	Oxides.	T 225.00000000000	CI	1968	1968				
Pu-239	Solid.	Oxides.	T 653.00000000000	CI	1969	1969				
Pu-239	Solid.	Oxides.	T 832.00000000000	CI	1970	1970				
Pu-240	Solid.	Oxides.	T 3.1600000000000	CI	1954	1954				
Pu-240	Solid.	Oxides.	T 15.800000000000	CI	1955	1955				
Pu-240	Solid.	Oxides.	T 31.800000000000	CI	1956	1956				

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Pu-240	Solid.	Oxides.	T 46.100000000000	CI	1957	1957				
Pu-240	Solid.	Oxides.	T 107.00000000000	CI	1958	1958				
Pu-240	Solid.	Oxides.	T 117.00000000000	CI	1959	1959				
Pu-240	Solid.	Oxides.	T 139.00000000000	CI	1960	1960				
Pu-240	Solid.	Oxides.	T 127.00000000000	CI	1961	1961				
Pu-240	Solid.	Oxides.	T 165.00000000000	CI	1962	1962				
Pu-240	Solid.	Oxides.	T 201.00000000000	CI	1963	1963				
Pu-240	Solid.	Oxides.	T 173.00000000000	CI	1964	1964				
Pu-240	Solid.	Oxides.	T 248.00000000000	CI	1965	1965				

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Pu-240	Solid.	Oxides.	T 303.00000000000	CI	1966	1966				
Pu-240	Solid.	Oxides.	T 116.00000000000	CI	1967	1967				
Pu-240	Solid.	Oxides.	T 50.400000000000	CI	1968	1968				
Pu-240	Solid.	Oxides.	T 146.00000000000	CI	1969	1969				
Pu-240	Solid.	Oxides.	T 186.00000000000	CI	1970	1970				
Pu-241	Solid.	Oxides.	T 84.600000000000	CI	1954	1954				
Pu-241	Solid.	Oxides.	T 423.00000000000	CI	1955	1955				
Pu-241	Solid.	Oxides.	T 851.00000000000	CI	1956	1956				
Pu-241	Solid.	Oxides.	T 1230.0000000000	CI	1957	1957				

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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	Solid.	Oxides.	T 2860.0000000000	CI	1958	1958				
Pu-241	Solid.	Oxides.	T 3140.0000000000	CI	1959	1959				
Pu-241	Solid.	Oxides.	T 3720.0000000000	CI	1960	1960				
Pu-241	Solid.	Oxides.	T 3400.0000000000	CI	1961	1961				
Pu-241	Solid.	Oxides.	T 4420.0000000000	CI	1962	1962				
Pu-241	Solid.	Oxides.	T 5380.0000000000	CI	1963	1963				
Pu-241	Solid.	Oxides.	T 4620.0000000000	CI	1964	1964				
Pu-241	Solid.	Oxides.	T 6630.0000000000	CI	1965	1965				
Pu-241	Solid.	Oxides.	T 8100.0000000000	CI	1966	1966				

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Pu-241	Solid.	Oxides.	T 3110.0000000000	CI	1967	1967				
Pu-241	Solid.	Oxides.	T 1350.0000000000	CI	1968	1968				
Pu-241	Solid.	Oxides.	T 3910.0000000000	CI	1969	1969				
Pu-241	Solid.	Oxides.	T 4980.0000000000	CI	1970	1970				
Pu-242	Solid.	Oxides.	T .00019000000000	CI	1954	1954				
Pu-242	Solid.	Oxides.	T .00095000000000	CI	1955	1955				
Pu-242	Solid.	Oxides.	T .00191000000000	CI	1956	1956				
Pu-242	Solid.	Oxides.	T .00276000000000	CI	1957	1957				
Pu-242	Solid.	Oxides.	T .00642000000000	CI	1958	1958				

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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-242	Solid.	Oxides.	T .00705000000000	CI	1959	1959				
Pu-242	Solid.	Oxides.	T .00834000000000	CI	1960	1960				
Pu-242	Solid.	Oxides.	T .00763000000000	CI	1961	1961				
Pu-242	Solid.	Oxides.	T .00994000000000	CI	1962	1962				
Pu-242	Solid.	Oxides.	T .01210000000000	CI	1963	1963				
Pu-242	Solid.	Oxides.	T .01040000000000	CI	1964	1964				
Pu-242	Solid.	Oxides.	T .01490000000000	CI	1965	1965				
Pu-242	Solid.	Oxides.	T .01820000000000	CI	1966	1966				
Pu-242	Solid.	Oxides.	T .00699000000000	CI	1967	1967				

* 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-242	Solid.	Oxides.	T .00303000000000	CI	1968	1968				
Pu-242	Solid.	Oxides.	T .00878000000000	CI	1969	1969				
Pu-242	Solid.	Oxides.	T .01120000000000	CI	1970	1970				

* 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)

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

2. Details concerning source (names, report no., dates, etc.)
WM-F1-82-021. EDF-369 Hazardous Waste Constituents.

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
[ ] yes

6. If yes, explain why:
N/A.

7. Major unknowns in inventories of contaminants:

8. Key assumptions used to deal with the unknowns:
The stored waste data was extrapolated to estimate the buried waste amounts.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 216

1. Preparer: Kudera, Don

2. Date prepared: 01/10/94

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

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

5. Number of waste stream from this facility:
4H

6. Waste stream:
Paper, rags, plastic, clothing, cardboard, wood and polyethylene bottles.

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

8. Actual years disposed of at SDA:
Starting year 1954 Ending year 1970

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

10. Comments (specify number of pertinent question):
4. Buildings 771, 776, 779, 554, 777, and 707.
6. This buried waste stream is similar to stored waste content codes 330, 336, 337, 900 and 970.

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

2. Details on physical form(particularly confinement related)
Paper, rags, plastics, surgeons gloves, cloth, overalls and booties. Cardboard, wood, wood filter frames, and polyethylene bottles.

3. Chemical form:
PuO2 and Am oxide, and probably some trace amounts of Pu nitrate and Am nitrate on miscellaneous combustibles.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
4. Two plastic drum bags were used.

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
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 5720.0000000000	GM	1954	1954			5720.00000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 28600.000000000	GM	1955	1955			28600.0000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 57600.000000000	GM	1956	1956			57600.0000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 83300.000000000	GM	1957	1957			83300.0000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 193000.00000000	GM	1958	1958			193000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 212000.00000000	GM	1959	1959			212000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 251000.00000000	GM	1960	1960			251000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 230000.00000000	GM	1961	1961			230000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 299000.00000000	GM	1962	1962			299000.000	

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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
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 364000.00000000	GM	1963	1963			364000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 312000.00000000	GM	1964	1964			312000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 449000.00000000	GM	1965	1965			449000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 548000.00000000	GM	1966	1966			548000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 211000.00000000	GM	1967	1967			211000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 91200.000000000	GM	1968	1968			91200.0000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 265000.00000000	GM	1969	1969			265000.000	
56-23-5 Carbon Tetrachloride	Absorbed liquid.		T 337000.00000000	GM	1970	1970			337000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 14600.000000000	GM	1954	1954			14600.0000	

* 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.
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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
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 72800.000000000	GM	1955	1955			72800.0000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 146000.00000000	GM	1956	1956			146000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 212000.00000000	GM	1957	1957			212000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 492000.00000000	GM	1958	1958			492000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 540000.00000000	GM	1959	1959			540000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 639000.00000000	GM	1960	1960			639000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 585000.00000000	GM	1961	1961			585000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 761000.00000000	GM	1962	1962			761000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 926000.00000000	GM	1963	1963			926000.000	

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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	Samp les?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 794000.00000000	GM	1964	1964			794000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 1140000.0000000	GM	1965	1965			1140000.00	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 1390000.0000000	GM	1966	1966			1390000.00	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 536000.00000000	GM	1967	1967			536000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 232000.00000000	GM	1968	1968			232000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 673000.00000000	GM	1969	1969			673000.000	
71-55-6 1,1,1-Trichloroethane	Absorbed liquid.		T 857000.00000000	GM	1970	1970			857000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 5720.0000000000	GM	1954	1954			5720.00000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 28600.000000000	GM	1955	1955			28600.0000	

* 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
75-09-2 Methylene Chloride	Absorbed liquid.		T 57600.000000000	GM	1956	1956			57600.0000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 83300.000000000	GM	1957	1957			83300.0000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 193000.00000000	GM	1958	1958			193000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 212000.00000000	GM	1959	1959			212000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 251000.00000000	GM	1960	1960			251000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 230000.00000000	GM	1961	1961			230000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 299000.00000000	GM	1962	1962			299000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 364000.00000000	GM	1963	1963			364000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 312000.00000000	GM	1964	1964			312000.000	

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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
75-09-2 Methylene Chloride	Absorbed liquid.		T 449000.00000000	GM	1965	1965			449000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 548000.00000000	GM	1966	1966			548000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 211000.00000000	GM	1967	1967			211000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 91200.000000000	GM	1968	1968			91200.0000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 265000.00000000	GM	1969	1969			265000.000	
75-09-2 Methylene Chloride	Absorbed liquid.		T 337000.00000000	GM	1970	1970			337000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 13000.000000000	GM	1954	1954			13000.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 64800.000000000	GM	1955	1955			64800.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 130000.00000000	GM	1956	1956			130000.000	

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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
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 189000.00000000	GM	1957	1957			189000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 438000.00000000	GM	1958	1958			438000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 481000.00000000	GM	1959	1959			481000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 570000.00000000	GM	1960	1960			570000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 521000.00000000	GM	1961	1961			521000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 678000.00000000	GM	1962	1962			678000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 825000.00000000	GM	1963	1963			825000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 708000.00000000	GM	1964	1964			708000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 1020000.0000000	GM	1965	1965			1020000.00	

* 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.
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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
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 1240000.0000000	GM	1966	1966			1240000.00	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 477000.00000000	GM	1967	1967			477000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 207000.00000000	GM	1968	1968			207000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 600000.00000000	GM	1969	1969			600000.000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Absorbed liquid.		T 764000.00000000	GM	1970	1970			764000.000	
None-NC. Nitrocellulose	Absorbed nitric acid on cellulose.	Nitrocellulose.	Unknown.	GM	1954	1970	N		0.00000000	

* 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
Am-241			T 48.700000000000	CI	1954	1954				
Am-241			T 146.00000000000	CI	1955	1955				
Am-241			T 292.00000000000	CI	1956	1956				
Am-241			T 438.00000000000	CI	1957	1957				
Am-241			T 1070.0000000000	CI	1958	1958				
Am-241			T 1170.0000000000	CI	1959	1959				
Am-241			T 1360.0000000000	CI	1960	1960				
Am-241			T 1260.0000000000	CI	1961	1961				
Am-241			T 1610.0000000000	CI	1962	1962				

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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
Am-241			T 2000.0000000000	CI	1963	1963				
Am-241			T 1700.0000000000	CI	1964	1964				
Am-241			T 2430.0000000000	CI	1965	1965				
Am-241			T 2970.0000000000	CI	1966	1966				
Am-241			T 1170.0000000000	CI	1967	1967				
Am-241			T 487.00000000000	CI	1968	1968				
Am-241			T 1460.0000000000	CI	1969	1969				
Am-241			T 1850.0000000000	CI	1970	1970				
Pu-238		Oxides.	T .26200000000000	CI	1954	1954				

* 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-238		Oxides.	T 1.3100000000000	CI	1955	1955				
Pu-238		Oxides.	T 2.6400000000000	CI	1956	1956				
Pu-238		Oxides.	T 3.8200000000000	CI	1957	1957				
Pu-238		Oxides.	T 8.8700000000000	CI	1958	1958				
Pu-238		Oxides.	T 9.7400000000000	CI	1959	1959				
Pu-238		Oxides.	T 11.500000000000	CI	1960	1960				
Pu-238		Oxides.	T 10.500000000000	CI	1961	1961				
Pu-238		Oxides.	T 13.700000000000	CI	1962	1962				
Pu-238		Oxides.	T 16.700000000000	CI	1963	1963				

* 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
Pu-238		Oxides.	T 14.300000000000	CI	1964	1964				
Pu-238		Oxides.	T 20.600000000000	CI	1965	1965				
Pu-238		Oxides.	T 25.100000000000	CI	1966	1966				
Pu-238		Oxides.	T 9.6600000000000	CI	1967	1967				
Pu-238		Oxides.	T 4.1800000000000	CI	1968	1968				
Pu-238		Oxides.	T 12.100000000000	CI	1969	1969				
Pu-238		Oxides.	T 15.400000000000	CI	1970	1970				
Pu-239		Oxides.	T 8.9600000000000	CI	1954	1954				
Pu-239		Oxides.	T 44.800000000000	CI	1955	1955				

* 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)