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		Oxides.	T 90.10000000000	CI	1956	1956				
Pu-239		Oxides.	T 130.00000000000	CI	1957	1957				
Pu-239		Oxides.	T 303.00000000000	CI	1958	1958				
Pu-239		Oxides.	T 332.00000000000	CI	1959	1959				
Pu-239		Oxides.	T 394.00000000000	CI	1960	1960				
Pu-239		Oxides.	T 360.00000000000	CI	1961	1961				
Pu-239		Oxides.	T 468.00000000000	CI	1962	1962				
Pu-239		Oxides.	T 570.00000000000	CI	1963	1963				
Pu-239		Oxides.	T 489.00000000000	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)

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		Oxides.	T 702.00000000000	CI	1965	1965				
Pu-239		Oxides.	T 858.00000000000	CI	1966	1966				
Pu-239		Oxides.	T 330.00000000000	CI	1967	1967				
Pu-239		Oxides.	T 143.00000000000	CI	1968	1968				
Pu-239		Oxides.	T 414.00000000000	CI	1969	1969				
Pu-239		Oxides.	T 527.00000000000	CI	1970	1970				
Pu-240		Oxides.	T 2.0000000000000	CI	1954	1954				
Pu-240		Oxides.	T 10.000000000000	CI	1955	1955				
Pu-240		Oxides.	T 20.200000000000	CI	1956	1956				

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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-240		Oxides.	T 29.200000000000	CI	1957	1957				
Pu-240		Oxides.	T 67.800000000000	CI	1958	1958				
Pu-240		Oxides.	T 74.500000000000	CI	1959	1959				
Pu-240		Oxides.	T 88.100000000000	CI	1960	1960				
Pu-240		Oxides.	T 80.600000000000	CI	1961	1961				
Pu-240		Oxides.	T 105.00000000000	CI	1962	1962				
Pu-240		Oxides.	T 128.00000000000	CI	1963	1963				
Pu-240		Oxides.	T 109.00000000000	CI	1964	1964				
Pu-240		Oxides.	T 157.00000000000	CI	1965	1965				

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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-240		Oxides.	T 192.00000000000	CI	1966	1966				
Pu-240		Oxides.	T 73.800000000000	CI	1967	1967				
Pu-240		Oxides.	T 32.000000000000	CI	1968	1968				
Pu-240		Oxides.	T 92.800000000000	CI	1969	1969				
Pu-240		Oxides.	T 118.00000000000	CI	1970	1970				
Pu-241		Oxides.	T 53.600000000000	CI	1954	1954				
Pu-241		Oxides.	T 268.00000000000	CI	1955	1955				
Pu-241		Oxides.	T 540.00000000000	CI	1956	1956				
Pu-241		Oxides.	T 781.00000000000	CI	1957	1957				

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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-241		Oxides.	T 1810.0000000000	CI	1958	1958				
Pu-241		Oxides.	T 1990.0000000000	CI	1959	1959				
Pu-241		Oxides.	T 2360.0000000000	CI	1960	1960				
Pu-241		Oxides.	T 2160.0000000000	CI	1961	1961				
Pu-241		Oxides.	T 2800.0000000000	CI	1962	1962				
Pu-241		Oxides.	T 3410.0000000000	CI	1963	1963				
Pu-241		Oxides.	T 2930.0000000000	CI	1964	1964				
Pu-241		Oxides.	T 4210.0000000000	CI	1965	1965				
Pu-241		Oxides.	T 5140.0000000000	CI	1966	1966				

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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		Oxides.	T 1970.0000000000	CI	1967	1967				
Pu-241		Oxides.	T 855.00000000000	CI	1968	1968				
Pu-241		Oxides.	T 2480.0000000000	CI	1969	1969				
Pu-241		Oxides.	T 3160.0000000000	CI	1970	1970				
Pu-242		Oxides.	T .00012000000000	CI	1954	1954				
Pu-242		Oxides.	T .00060200000000	CI	1955	1955				
Pu-242		Oxides.	T .00121000000000	CI	1956	1956				
Pu-242		Oxides.	T .00175000000000	CI	1957	1957				
Pu-242		Oxides.	T .00407000000000	CI	1958	1958				

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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		Oxides.	T .00447000000000	CI	1959	1959				
Pu-242		Oxides.	T .00529000000000	CI	1960	1960				
Pu-242		Oxides.	T .00484000000000	CI	1961	1961				
Pu-242		Oxides.	T .00630000000000	CI	1962	1962				
Pu-242		Oxides.	T .00766000000000	CI	1963	1963				
Pu-242		Oxides.	T .00657000000000	CI	1964	1964				
Pu-242		Oxides.	T .00945000000000	CI	1965	1965				
Pu-242		Oxides.	T .01150000000000	CI	1966	1966				
Pu-242		Oxides.	T .00443000000000	CI	1967	1967				

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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		Oxides.	T .00192000000000	CI	1968	1968				
Pu-242		Oxides.	T .00557000000000	CI	1969	1969				
Pu-242		Oxides.	T .00709000000000	CI	1970	1970				

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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, Content Code Assessments for INEL Contact Handled Stored TRU Wastes, T. L. Clements. 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:
N/A.

7. Major unknowns in inventories of contaminants:
Chemical hazards, these are volatile and some of them would have evaporated. Nitric acid reacted with cellulose to form nitrocellulose which is used in the manufacture of explosives.

8. Key assumptions used to deal with the unknowns:
Chemical hazards, assumed no evaporation took place. 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 - 217

1. Preparer: Kudera, Don

2. Date prepared: 06/28/93

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:
5H

6. Waste stream:
Concrete and brick.

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 12133.6000 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. This buried waste stream is similar to stored waste content codes 371 and 960.
9. The average weight per drum is 390 pounds, the average weight per box is 3,226 pounds. Total weight of drums is 427,830 pounds, total weight of boxes is 148,396 pounds. Total waste is 576,226 pounds. Waste stream contains 1,097 55-gallon drums and 46 4x4x7 ft. boxes.

1. General physical form (see attached list)
Concrete, brick, and asphalt.
[ ] other (specify)

2. Details on physical form(particularly confinement related)
Waste consists of whole and broken pieces of construction brick, cinderblocks, and fire brick. Waste may also contain limited amounts of other noncombustible and combustible waste.

3. Chemical form:
Pu oxides on brick, etc.

4. Inner packaging: [ ] plastic bag [X] plastic liner
[ ] metal liner [ ] none [X] other (specify)
See 7 below.

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
4. Drums were packaged three different ways: a) Double-contained in plastic and then placed into Fibre-Paks. Two Fibre-Paks were placed in a prepared 55-gallon drum. b) Double-contained in plastic and place directly into a prepared 55-gallon drum. c) No packaging; placed directly into a prepared 55-gallon drum. Boxes were packaged two different ways. a) Double-contained in plastic and placed into a prepared box. b) No packaging; placed directly into a prepared box.
5. BXW.

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)
No hazardous material is identified in this content code.

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 .05500000000000	CI	1954	1954				
Pu-238	Solid.	Oxides.	T .27500000000000	CI	1955	1955				
Pu-238	Solid.	Oxides.	T .55400000000000	CI	1956	1956				
Pu-238	Solid.	Oxides.	T .80100000000000	CI	1957	1957				
Pu-238	Solid.	Oxides.	T 1.8600000000000	CI	1958	1958				
Pu-238	Solid.	Oxides.	T 2.0400000000000	CI	1959	1959				
Pu-238	Solid.	Oxides.	T 2.4200000000000	CI	1960	1960				
Pu-238	Solid.	Oxides.	T 2.2100000000000	CI	1961	1961				
Pu-238	Solid.	Oxides.	T 2.8800000000000	CI	1962	1962				

* 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	Solid.	Oxides.	T 3.5000000000000	CI	1963	1963				
Pu-238	Solid.	Oxides.	T 3.0000000000000	CI	1964	1964				
Pu-238	Solid.	Oxides.	T 4.3200000000000	CI	1965	1965				
Pu-238	Solid.	Oxides.	T 5.2700000000000	CI	1966	1966				
Pu-238	Solid.	Oxides.	T 2.0200000000000	CI	1967	1967				
Pu-238	Solid.	Oxides.	T .87700000000000	CI	1968	1968				
Pu-238	Solid.	Oxides.	T 2.5400000000000	CI	1969	1969				
Pu-238	Solid.	Oxides.	T 3.2400000000000	CI	1970	1970				
Pu-239	Solid.	Oxides.	T 1.8800000000000	CI	1954	1954				

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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-239	Solid.	Oxides.	T 9.3900000000000	CI	1955	1955				
Pu-239	Solid.	Oxides.	T 18.900000000000	CI	1956	1956				
Pu-239	Solid.	Oxides.	T 27.300000000000	CI	1957	1957				
Pu-239	Solid.	Oxides.	T 63.500000000000	CI	1958	1958				
Pu-239	Solid.	Oxides.	T 69.700000000000	CI	1959	1959				
Pu-239	Solid.	Oxides.	T 82.500000000000	CI	1960	1960				
Pu-239	Solid.	Oxides.	T 75.500000000000	CI	1961	1961				
Pu-239	Solid.	Oxides.	T 98.200000000000	CI	1962	1962				
Pu-239	Solid.	Oxides.	T 119.00000000000	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 102.00000000000	CI	1964	1964				
Pu-239	Solid.	Oxides.	T 147.00000000000	CI	1965	1965				
Pu-239	Solid.	Oxides.	T 180.00000000000	CI	1966	1966				
Pu-239	Solid.	Oxides.	T 69.100000000000	CI	1967	1967				
Pu-239	Solid.	Oxides.	T 29.900000000000	CI	1968	1968				
Pu-239	Solid.	Oxides.	T 86.800000000000	CI	1969	1969				
Pu-239	Solid.	Oxides.	T 110.00000000000	CI	1970	1970				
Pu-240	Solid.	Oxides.	T .42000000000000	CI	1954	1954				
Pu-240	Solid.	Oxides.	T 2.1000000000000	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)

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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	Solid.	Oxides.	T 4.2300000000000	CI	1956	1956				
Pu-240	Solid.	Oxides.	T 6.1200000000000	CI	1957	1957				
Pu-240	Solid.	Oxides.	T 14.200000000000	CI	1958	1958				
Pu-240	Solid.	Oxides.	T 15.600000000000	CI	1959	1959				
Pu-240	Solid.	Oxides.	T 18.500000000000	CI	1960	1960				
Pu-240	Solid.	Oxides.	T 16.900000000000	CI	1961	1961				
Pu-240	Solid.	Oxides.	T 22.000000000000	CI	1962	1962				
Pu-240	Solid.	Oxides.	T 26.800000000000	CI	1963	1963				
Pu-240	Solid.	Oxides.	T 22.900000000000	CI	1964	1964				

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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	Solid.	Oxides.	T 33.000000000000	CI	1965	1965				
Pu-240	Solid.	Oxides.	T 40.300000000000	CI	1966	1966				
Pu-240	Solid.	Oxides.	T 15.500000000000	CI	1967	1967				
Pu-240	Solid.	Oxides.	T 6.7000000000000	CI	1968	1968				
Pu-240	Solid.	Oxides.	T 19.400000000000	CI	1969	1969				
Pu-240	Solid.	Oxides.	T 24.800000000000	CI	1970	1970				
Pu-241	Solid.	Oxides.	T 11.200000000000	CI	1954	1954				
Pu-241	Solid.	Oxides.	T 56.200000000000	CI	1955	1955				
Pu-241	Solid.	Oxides.	T 113.00000000000	CI	1956	1956				

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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-241	Solid.	Oxides.	T 164.00000000000	CI	1957	1957				
Pu-241	Solid.	Oxides.	T 380.00000000000	CI	1958	1958				
Pu-241	Solid.	Oxides.	T 417.00000000000	CI	1959	1959				
Pu-241	Solid.	Oxides.	T 494.00000000000	CI	1960	1960				
Pu-241	Solid.	Oxides.	T 452.00000000000	CI	1961	1961				
Pu-241	Solid.	Oxides.	T 588.00000000000	CI	1962	1962				
Pu-241	Solid.	Oxides.	T 715.00000000000	CI	1963	1963				
Pu-241	Solid.	Oxides.	T 614.00000000000	CI	1964	1964				
Pu-241	Solid.	Oxides.	T 882.00000000000	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 1080.0000000000	CI	1966	1966				
Pu-241	Solid.	Oxides.	T 414.00000000000	CI	1967	1967				
Pu-241	Solid.	Oxides.	T 179.00000000000	CI	1968	1968				
Pu-241	Solid.	Oxides.	T 520.00000000000	CI	1969	1969				
Pu-241	Solid.	Oxides.	T 662.00000000000	CI	1970	1970				
Pu-242	Solid.	Oxides.	T .00002520000000	CI	1954	1954				
Pu-242	Solid.	Oxides.	T .00012600000000	CI	1955	1955				
Pu-242	Solid.	Oxides.	T .00025400000000	CI	1956	1956				
Pu-242	Solid.	Oxides.	T .00036800000000	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-242	Solid.	Oxides.	T .00085400000000	CI	1958	1958				
Pu-242	Solid.	Oxides.	T .00093700000000	CI	1959	1959				
Pu-242	Solid.	Oxides.	T .00111000000000	CI	1960	1960				
Pu-242	Solid.	Oxides.	T .00101000000000	CI	1961	1961				
Pu-242	Solid.	Oxides.	T .00132000000000	CI	1962	1962				
Pu-242	Solid.	Oxides.	T .00161000000000	CI	1963	1963				
Pu-242	Solid.	Oxides.	T .00138000000000	CI	1964	1964				
Pu-242	Solid.	Oxides.	T .00198000000000	CI	1965	1965				
Pu-242	Solid.	Oxides.	T .00242000000000	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 .00092900000000	CI	1967	1967				
Pu-242	Solid.	Oxides.	T .00040200000000	CI	1968	1968				
Pu-242	Solid.	Oxides.	T .00117000000000	CI	1969	1969				
Pu-242	Solid.	Oxides.	T .00149000000000	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-5H

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-FI-82-021, October 1982, "Content Code Assessment for INEL Contact-Handled Stored Transuranic Waste," by 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:
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 buried waste amounts.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 219

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:
6H

6. Waste stream:
Filters.

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. All plutonium areas.
6. This buried waste stream is similar to stored waste content codes 335, 338, 360, and 490.
9. The average weight per drum is 200 pounds and the average weight per box is 1892 pounds. Total drum weight is 11,600 pounds, total weight of the boxes is 1,356,564 pounds. Total pounds is 1,368,164 pounds. This waste stream contains 58 55-gallon drums and 717 4'x4'x7' boxes (1971 to 1975).

1. General physical form (see attached list)
HEPA filters.
[X] other (specify)
23.

2. Details on physical form(particularly confinement related)
Waste primarily consists of whole HEPA filters. Pre-1976 waste (primarily drums) will contain CWS filters. Also included are prefilters, all ventilation intake and exhaust system filters.

3. Chemical form:
Pu and Am oxide with trace amounts of Pu and Am nitrates.

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 490 (drums) should be similar to content code 335 (drums).

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

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	Solid.		T 902.00000000000	GM	1954	1954			902.000000	
56-23-5 Carbon Tetrachloride	Solid.		T 4510.0000000000	GM	1955	1955			4510.00000	
56-23-5 Carbon Tetrachloride	Solid.		T 9080.0000000000	GM	1956	1956			9080.00000	
56-23-5 Carbon Tetrachloride	Solid.		T 13100.000000000	GM	1957	1957			13100.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 30500.000000000	GM	1958	1958			30500.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 33500.000000000	GM	1959	1959			33500.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 39600.000000000	GM	1960	1960			39600.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 36300.000000000	GM	1961	1961			36300.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 47200.000000000	GM	1962	1962			47200.0000	

* 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)
Some drums contain 1 to 2 quarts of absorbent (Oil-Dri). Some boxes contain up to 50 pounds of Portland Cement.

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	Solid.		T 57400.000000000	GM	1963	1963			57400.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 49200.000000000	GM	1964	1964			49200.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 70800.000000000	GM	1965	1965			70800.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 86400.000000000	GM	1966	1966			86400.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 33200.000000000	GM	1967	1967			33200.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 14400.000000000	GM	1968	1968			14400.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 41700.000000000	GM	1969	1969			41700.0000	
56-23-5 Carbon Tetrachloride	Solid.		T 53100.000000000	GM	1970	1970			53100.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 902.00000000000	GM	1954	1954			902.000000	

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71-55-6 1,1,1-Trichloroethane	Solid.		T 4510.0000000000	GM	1955	1955			4510.00000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 9080.0000000000	GM	1956	1956			9080.00000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 13100.000000000	GM	1957	1957			13100.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 30500.000000000	GM	1958	1958			30500.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 33500.000000000	GM	1959	1959			33500.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 39600.000000000	GM	1960	1960			39600.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 36300.000000000	GM	1961	1961			36300.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 47200.000000000	GM	1962	1962			47200.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 57400.000000000	GM	1963	1963			57400.0000	

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Additional information or explanations (indicate pertinent contaminant)

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71-55-6 1,1,1-Trichloroethane	Solid.		T 49200.000000000	GM	1964	1964			49200.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 70800.000000000	GM	1965	1965			70800.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 86400.000000000	GM	1966	1966			86400.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 33200.000000000	GM	1967	1967			33200.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 14400.000000000	GM	1968	1968			14400.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 41700.000000000	GM	1969	1969			41700.0000	
71-55-6 1,1,1-Trichloroethane	Solid.		T 53100.000000000	GM	1970	1970			53100.0000	
75-09-2 Methylene Chloride	Solid.		T 272.00000000000	GM	1954	1954			272.000000	
75-09-2 Methylene Chloride	Solid.		T 1360.0000000000	GM	1955	1955			1360.00000	

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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
75-09-2 Methylene Chloride	Solid.		T 2740.0000000000	GM	1956	1956			2740.00000	
75-09-2 Methylene Chloride	Solid.		T 3970.0000000000	GM	1957	1957			3970.00000	
75-09-2 Methylene Chloride	Solid.		T 9210.0000000000	GM	1958	1958			9210.00000	
75-09-2 Methylene Chloride	Solid.		T 10100.000000000	GM	1959	1959			10100.0000	
75-09-2 Methylene Chloride	Solid.		T 12000.000000000	GM	1960	1960			12000.0000	
75-09-2 Methylene Chloride	Solid.		T 10900.000000000	GM	1961	1961			10900.0000	
75-09-2 Methylene Chloride	Solid.		T 14200.000000000	GM	1962	1962			14200.0000	
75-09-2 Methylene Chloride	Solid.		T 17300.000000000	GM	1963	1963			17300.0000	
75-09-2 Methylene Chloride	Solid.		T 14900.000000000	GM	1964	1964			14900.0000	

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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
75-09-2 Methylene Chloride	Solid.		T 21400.000000000	GM	1965	1965			21400.0000	
75-09-2 Methylene Chloride	Solid.		T 26100.000000000	GM	1966	1966			26100.0000	
75-09-2 Methylene Chloride	Solid.		T 10000.000000000	GM	1967	1967			10000.0000	
75-09-2 Methylene Chloride	Solid.		T 4340.0000000000	GM	1968	1968			4340.00000	
75-09-2 Methylene Chloride	Solid.		T 12600.000000000	GM	1969	1969			12600.0000	
75-09-2 Methylene Chloride	Solid.		T 16000.000000000	GM	1970	1970			16000.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 454.00000000000	GM	1954	1954			454.000000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 2270.0000000000	GM	1955	1955			2270.00000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 4570.0000000000	GM	1956	1956			4570.00000	

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76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 6610.0000000000	GM	1957	1957			6610.00000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 15300.000000000	GM	1958	1958			15300.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 16800.000000000	GM	1959	1959			16800.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 19900.000000000	GM	1960	1960			19900.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 18200.000000000	GM	1961	1961			18200.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 23700.000000000	GM	1962	1962			23700.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 28900.000000000	GM	1963	1963			28900.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 24800.000000000	GM	1964	1964			24800.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 35600.000000000	GM	1965	1965			35600.0000	

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Additional information or explanations (indicate pertinent contaminant)
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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
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 43500.000000000	GM	1966	1966			43500.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 16700.000000000	GM	1967	1967			16700.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 7230.0000000000	GM	1968	1968			7230.00000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 21000.000000000	GM	1969	1969			21000.0000	
76131 1,1,2-Trichloro-1,2,2-Trifluor	Solid.		T 26700.000000000	GM	1970	1970			26700.0000	
7697-37-2 Nitric Acid	Liquid absorbed on filter material.	Reacted with filters to form nitrates.	Unknown.	GM	1954	1970	N		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
Am-241		Oxide with a trace of nitrates.	T 2.9000000000000	CI	1954	1954				
Am-241		Oxide with a trace of nitrates.	T 8.6900000000000	CI	1955	1955				
Am-241		Oxide with a trace of nitrates.	T 17.400000000000	CI	1956	1956				
Am-241		Oxide with a trace of nitrates.	T 26.100000000000	CI	1957	1957				
Am-241		Oxide with a trace of nitrates.	T 63.700000000000	CI	1958	1958				
Am-241		Oxide with a trace of nitrates.	T 69.500000000000	CI	1959	1959				
Am-241		Oxide with a trace of nitrates.	T 81.100000000000	CI	1960	1960				
Am-241		Oxide with a trace of nitrates.	T 75.300000000000	CI	1961	1961				
Am-241		Oxide with a trace of nitrates.	T 95.600000000000	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		Oxide with a trace of nitrates.	T 119.00000000000	CI	1963	1963				
Am-241		Oxide with a trace of nitrates.	T 101.00000000000	CI	1964	1964				
Am-241		Oxide with a trace of nitrates.	T 145.00000000000	CI	1965	1965				
Am-241		Oxide with a trace of nitrates.	T 177.00000000000	CI	1966	1966				
Am-241		Oxide with a trace of nitrates.	T 69.500000000000	CI	1967	1967				
Am-241		Oxide with a trace of nitrates.	T 29.000000000000	CI	1968	1968				
Am-241		Oxide with a trace of nitrates.	T 86.900000000000	CI	1969	1969				
Am-241		Oxide with a trace of nitrates.	T 110.00000000000	CI	1970	1970				
Pu-238		Oxide with a trace of nitrates.	T .34800000000000	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		Oxide with a trace of nitrates.	T 1.7400000000000	CI	1955	1955				
Pu-238		Oxide with a trace of nitrates.	T 3.5000000000000	CI	1956	1956				
Pu-238		Oxide with a trace of nitrates.	T 5.0700000000000	CI	1957	1957				
Pu-238		Oxide with a trace of nitrates.	T 11.800000000000	CI	1958	1958				
Pu-238		Oxide with a trace of nitrates.	T 12.900000000000	CI	1959	1959				
Pu-238		Oxide with a trace of nitrates.	T 15.300000000000	CI	1960	1960				
Pu-238		Oxide with a trace of nitrates.	T 14.000000000000	CI	1961	1961				
Pu-238		Oxide with a trace of nitrates.	T 18.200000000000	CI	1962	1962				
Pu-238		Oxide with a trace of nitrates.	T 22.100000000000	CI	1963	1963				

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Pu-238		Oxide with a trace of nitrates.	T 19.000000000000	CI	1964	1964				
Pu-238		Oxide with a trace of nitrates.	T 27.300000000000	CI	1965	1965				
Pu-238		Oxide with a trace of nitrates.	T 33.300000000000	CI	1966	1966				
Pu-238		Oxide with a trace of nitrates.	T 12.800000000000	CI	1967	1967				
Pu-238		Oxide with a trace of nitrates.	T 5.5400000000000	CI	1968	1968				
Pu-238		Oxide with a trace of nitrates.	T 16.100000000000	CI	1969	1969				
Pu-238		Oxide with a trace of nitrates.	T 20.500000000000	CI	1970	1970				
Pu-239		Oxide with a trace of nitrates.	T 11.900000000000	CI	1954	1954				
Pu-239		Oxide with a trace of nitrates.	T 59.400000000000	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		Oxide with a trace of nitrates.	T 120.00000000000	CI	1956	1956				
Pu-239		Oxide with a trace of nitrates.	T 173.00000000000	CI	1957	1957				
Pu-239		Oxide with a trace of nitrates.	T 402.00000000000	CI	1958	1958				
Pu-239		Oxide with a trace of nitrates.	T 441.00000000000	CI	1959	1959				
Pu-239		Oxide with a trace of nitrates.	T 522.00000000000	CI	1960	1960				
Pu-239		Oxide with a trace of nitrates.	T 477.00000000000	CI	1961	1961				
Pu-239		Oxide with a trace of nitrates.	T 621.00000000000	CI	1962	1962				
Pu-239		Oxide with a trace of nitrates.	T 756.00000000000	CI	1963	1963				
Pu-239		Oxide with a trace of nitrates.	T 648.00000000000	CI	1964	1964				

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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-239		Oxide with a trace of nitrates.	T 932.00000000000	CI	1965	1965				
Pu-239		Oxide with a trace of nitrates.	T 1140.0000000000	CI	1966	1966				
Pu-239		Oxide with a trace of nitrates.	T 437.00000000000	CI	1967	1967				
Pu-239		Oxide with a trace of nitrates.	T 189.00000000000	CI	1968	1968				
Pu-239		Oxide with a trace of nitrates.	T 549.00000000000	CI	1969	1969				
Pu-239		Oxide with a trace of nitrates.	T 699.00000000000	CI	1970	1970				
Pu-240		Oxide with a trace of nitrates.	T 2.6600000000000	CI	1954	1954				
Pu-240		Oxide with a trace of nitrates.	T 13.300000000000	CI	1955	1955				
Pu-240		Oxide with a trace of nitrates.	T 26.800000000000	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-240		Oxide with a trace of nitrates.	T 38.700000000000	CI	1957	1957				
Pu-240		Oxide with a trace of nitrates.	T 89.900000000000	CI	1958	1958				
Pu-240		Oxide with a trace of nitrates.	T 98.700000000000	CI	1959	1959				
Pu-240		Oxide with a trace of nitrates.	T 117.00000000000	CI	1960	1960				
Pu-240		Oxide with a trace of nitrates.	T 107.00000000000	CI	1961	1961				
Pu-240		Oxide with a trace of nitrates.	T 139.00000000000	CI	1962	1962				
Pu-240		Oxide with a trace of nitrates.	T 169.00000000000	CI	1963	1963				
Pu-240		Oxide with a trace of nitrates.	T 145.00000000000	CI	1964	1964				
Pu-240		Oxide with a trace of nitrates.	T 209.00000000000	CI	1965	1965				

* 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-240		Oxide with a trace of nitrates.	T 255.00000000000	CI	1966	1966				
Pu-240		Oxide with a trace of nitrates.	T 97.900000000000	CI	1967	1967				
Pu-240		Oxide with a trace of nitrates.	T 42.400000000000	CI	1968	1968				
Pu-240		Oxide with a trace of nitrates.	T 123.00000000000	CI	1969	1969				
Pu-240		Oxide with a trace of nitrates.	T 156.00000000000	CI	1970	1970				
Pu-241		Oxide with a trace of nitrates.	T 71.100000000000	CI	1954	1954				
Pu-241		Oxide with a trace of nitrates.	T 356.00000000000	CI	1955	1955				
Pu-241		Oxide with a trace of nitrates.	T 716.00000000000	CI	1956	1956				
Pu-241		Oxide with a trace of nitrates.	T 1040.0000000000	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-241		Oxide with a trace of nitrates.	T 2400.0000000000	CI	1958	1958				
Pu-241		Oxide with a trace of nitrates.	T 2640.0000000000	CI	1959	1959				
Pu-241		Oxide with a trace of nitrates.	T 3120.0000000000	CI	1960	1960				
Pu-241		Oxide with a trace of nitrates.	T 2860.0000000000	CI	1961	1961				
Pu-241		Oxide with a trace of nitrates.	T 3720.0000000000	CI	1962	1962				
Pu-241		Oxide with a trace of nitrates.	T 4520.0000000000	CI	1963	1963				
Pu-241		Oxide with a trace of nitrates.	T 3880.0000000000	CI	1964	1964				
Pu-241		Oxide with a trace of nitrates.	T 5580.0000000000	CI	1965	1965				
Pu-241		Oxide with a trace of nitrates.	T 6810.0000000000	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-241		Oxide with a trace of nitrates.	T 2620.0000000000	CI	1967	1967				
Pu-241		Oxide with a trace of nitrates.	T 1130.0000000000	CI	1968	1968				
Pu-241		Oxide with a trace of nitrates.	T 3290.0000000000	CI	1969	1969				
Pu-241		Oxide with a trace of nitrates.	T 4190.0000000000	CI	1970	1970				
Pu-242		Oxide with a trace of nitrates.	T .00016000000000	CI	1954	1954				
Pu-242		Oxide with a trace of nitrates.	T .00079800000000	CI	1955	1955				
Pu-242		Oxide with a trace of nitrates.	T .00161000000000	CI	1956	1956				
Pu-242		Oxide with a trace of nitrates.	T .00232000000000	CI	1957	1957				
Pu-242		Oxide with a trace of nitrates.	T .00540000000000	CI	1958	1958				

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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-242		Oxide with a trace of nitrates.	T .00593000000000	CI	1959	1959				
Pu-242		Oxide with a trace of nitrates.	T .00702000000000	CI	1960	1960				
Pu-242		Oxide with a trace of nitrates.	T .00642000000000	CI	1961	1961				
Pu-242		Oxide with a trace of nitrates.	T .00835000000000	CI	1962	1962				
Pu-242		Oxide with a trace of nitrates.	T .01020000000000	CI	1963	1963				
Pu-242		Oxide with a trace of nitrates.	T .00871000000000	CI	1964	1964				
Pu-242		Oxide with a trace of nitrates.	T .01250000000000	CI	1965	1965				
Pu-242		Oxide with a trace of nitrates.	T .01530000000000	CI	1966	1966				
Pu-242		Oxide with a trace of nitrates.	T .00588000000000	CI	1967	1967				

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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-242		Oxide with a trace of nitrates.	T .00254000000000	CI	1968	1968				
Pu-242		Oxide with a trace of nitrates.	T .00738000000000	CI	1969	1969				
Pu-242		Oxide with a trace of nitrates.	T .00940000000000	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, October 1982, "Content Code Assessment for INEL Contact-Handled Stored Transuranic Waste", Thomas L. Clements, Jr.

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 - 218

1. Preparer: Kudera, Don

2. Date prepared: 06/21/93

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:
7H

6. Waste stream:
Glass.

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 3476.3000 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 - all plutonium areas (771, 559, etc.)
6. This buried waste stream is similar to stored waste content codes 440, 441, and 442.
9. The average weight per drum is 232 pounds, total drum weight is 254,736 pounds. The average weight per box is 2,290 pounds, total box weight is 2,290. Total pounds for this waste stream is 257,026.

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

2. Details on physical form(particularly confinement related)
Waste consists of glass in the form of sample vials and bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware, glovebox windows (glass, plexiglass, and leaded glass), crushed glass, ground glass, and raschig rings.

3. Chemical form:
Pu oxides and Pu nitrates on glass.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
4. PB and PL.
5. BXW.

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)
Content code 440 contains some leaded glass. No hazardous materials are identified to be present.

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.	Oxide and nitrates.	T .23600000000000	CI	1954	1954				
Pu-238	Solid.	Oxide and nitrates.	T 1.1800000000000	CI	1955	1955				
Pu-238	Solid.	Oxide and nitrates.	T 2.3800000000000	CI	1956	1956				
Pu-238	Solid.	Oxide and nitrates.	T 3.4400000000000	CI	1957	1957				
Pu-238	Solid.	Oxide and nitrates.	T 8.0000000000000	CI	1958	1958				
Pu-238	Solid.	Oxide and nitrates.	T 8.7800000000000	CI	1959	1959				
Pu-238	Solid.	Oxide and nitrates.	T 10.400000000000	CI	1960	1960				
Pu-238	Solid.	Oxide and nitrates.	T 9.5000000000000	CI	1961	1961				
Pu-238	Solid.	Oxide and nitrates.	T 12.400000000000	CI	1962	1962				

* 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	Solid.	Oxide and nitrates.	T 15.000000000000	CI	1963	1963				
Pu-238	Solid.	Oxide and nitrates.	T 12.900000000000	CI	1964	1964				
Pu-238	Solid.	Oxide and nitrates.	T 18.500000000000	CI	1965	1965				
Pu-238	Solid.	Oxide and nitrates.	T 22.600000000000	CI	1966	1966				
Pu-238	Solid.	Oxide and nitrates.	T 8.7000000000000	CI	1967	1967				
Pu-238	Solid.	Oxide and nitrates.	T 3.7700000000000	CI	1968	1968				
Pu-238	Solid.	Oxide and nitrates.	T 10.900000000000	CI	1969	1969				
Pu-238	Solid.	Oxide and nitrates.	T 13.900000000000	CI	1970	1970				
Pu-239	Solid.	Oxide and nitrates.	T 8.0700000000000	CI	1954	1954				

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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-239	Solid.	Oxide and nitrates.	T 40.400000000000	CI	1955	1955				
Pu-239	Solid.	Oxide and nitrates.	T 81.200000000000	CI	1956	1956				
Pu-239	Solid.	Oxide and nitrates.	T 118.00000000000	CI	1957	1957				
Pu-239	Solid.	Oxide and nitrates.	T 273.00000000000	CI	1958	1958				
Pu-239	Solid.	Oxide and nitrates.	T 300.00000000000	CI	1959	1959				
Pu-239	Solid.	Oxide and nitrates.	T 355.00000000000	CI	1960	1960				
Pu-239	Solid.	Oxide and nitrates.	T 324.00000000000	CI	1961	1961				
Pu-239	Solid.	Oxide and nitrates.	T 422.00000000000	CI	1962	1962				
Pu-239	Solid.	Oxide and nitrates.	T 514.00000000000	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.	Oxide and nitrates.	T 440.00000000000	CI	1964	1964				*
Pu-239	Solid.	Oxide and nitrates.	T 633.00000000000	CI	1965	1965				
Pu-239	Solid.	Oxide and nitrates.	T 773.00000000000	CI	1966	1966				
Pu-239	Solid.	Oxide and nitrates.	T 297.00000000000	CI	1967	1967				
Pu-239	Solid.	Oxide and nitrates.	T 129.00000000000	CI	1968	1968				
Pu-239	Solid.	Oxide and nitrates.	T 373.00000000000	CI	1969	1969				
Pu-239	Solid.	Oxide and nitrates.	T 475.00000000000	CI	1970	1970				
Pu-240	Solid.	Oxide and nitrates.	T 1.8100000000000	CI	1954	1954				
Pu-240	Solid.	Oxide and nitrates.	T 9.0400000000000	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)

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-240	Solid.	Oxide and nitrates.	T 18.200000000000	CI	1956	1956				
Pu-240	Solid.	Oxide and nitrates.	T 26.300000000000	CI	1957	1957				
Pu-240	Solid.	Oxide and nitrates.	T 61.100000000000	CI	1958	1958				
Pu-240	Solid.	Oxide and nitrates.	T 67.100000000000	CI	1959	1959				
Pu-240	Solid.	Oxide and nitrates.	T 79.400000000000	CI	1960	1960				
Pu-240	Solid.	Oxide and nitrates.	T 72.600000000000	CI	1961	1961				
Pu-240	Solid.	Oxide and nitrates.	T 94.600000000000	CI	1962	1962				
Pu-240	Solid.	Oxide and nitrates.	T 115.00000000000	CI	1963	1963				
Pu-240	Solid.	Oxide and nitrates.	T 98.600000000000	CI	1964	1964				

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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-240	Solid.	Oxide and nitrates.	T 142.00000000000	CI	1965	1965				
Pu-240	Solid.	Oxide and nitrates.	T 173.00000000000	CI	1966	1966				
Pu-240	Solid.	Oxide and nitrates.	T 66.500000000000	CI	1967	1967				
Pu-240	Solid.	Oxide and nitrates.	T 28.800000000000	CI	1968	1968				
Pu-240	Solid.	Oxide and nitrates.	T 83.600000000000	CI	1969	1969				
Pu-240	Solid.	Oxide and nitrates.	T 106.00000000000	CI	1970	1970				
Pu-241	Solid.	Oxide and nitrates.	T 48.300000000000	CI	1954	1954				
Pu-241	Solid.	Oxide and nitrates.	T 242.00000000000	CI	1955	1955				
Pu-241	Solid.	Oxide and nitrates.	T 486.00000000000	CI	1956	1956				

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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-241	Solid.	Oxide and nitrates.	T 704.00000000000	CI	1957	1957				
Pu-241	Solid.	Oxide and nitrates.	T 1630.0000000000	CI	1958	1958				
Pu-241	Solid.	Oxide and nitrates.	T 1790.0000000000	CI	1959	1959				
Pu-241	Solid.	Oxide and nitrates.	T 2120.0000000000	CI	1960	1960				
Pu-241	Solid.	Oxide and nitrates.	T 1940.0000000000	CI	1961	1961				
Pu-241	Solid.	Oxide and nitrates.	T 2530.0000000000	CI	1962	1962				
Pu-241	Solid.	Oxide and nitrates.	T 3080.0000000000	CI	1963	1963				
Pu-241	Solid.	Oxide and nitrates.	T 2640.0000000000	CI	1964	1964				
Pu-241	Solid.	Oxide and nitrates.	T 3790.0000000000	CI	1965	1965				

* 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	Solid.	Oxide and nitrates.	T 4630.0000000000	CI	1966	1966				
Pu-241	Solid.	Oxide and nitrates.	T 1780.0000000000	CI	1967	1967				
Pu-241	Solid.	Oxide and nitrates.	T 770.00000000000	CI	1968	1968				
Pu-241	Solid.	Oxide and nitrates.	T 2240.0000000000	CI	1969	1969				
Pu-241	Solid.	Oxide and nitrates.	T 2840.0000000000	CI	1970	1970				
Pu-242	Solid.	Oxide and nitrates.	T .00010800000000	CI	1954	1954				
Pu-242	Solid.	Oxide and nitrates.	T .00054300000000	CI	1955	1955				
Pu-242	Solid.	Oxide and nitrates.	T .00109000000000	CI	1956	1956				
Pu-242	Solid.	Oxide and nitrates.	T .00158000000000	CI	1957	1957				

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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.	Oxide and nitrates.	T .00367000000000	CI	1958	1958				
Pu-242	Solid.	Oxide and nitrates.	T .00403000000000	CI	1959	1959				
Pu-242	Solid.	Oxide and nitrates.	T .00477000000000	CI	1960	1960				
Pu-242	Solid.	Oxide and nitrates.	T .00436000000000	CI	1961	1961				
Pu-242	Solid.	Oxide and nitrates.	T .00568000000000	CI	1962	1962				
Pu-242	Solid.	Oxide and nitrates.	T .00690000000000	CI	1963	1963				
Pu-242	Solid.	Oxide and nitrates.	T .00592000000000	CI	1964	1964				
Pu-242	Solid.	Oxide and nitrates.	T .00851000000000	CI	1965	1965				
Pu-242	Solid.	Oxide and nitrates.	T .01040000000000	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	Solid.	Oxide and nitrates.	T .00400000000000	CI	1967	1967				
Pu-242	Solid.	Oxide and nitrates.	T .00173000000000	CI	1968	1968				
Pu-242	Solid.	Oxide and nitrates.	T .00502000000000	CI	1969	1969				
Pu-242	Solid.	Oxide and nitrates.	T .00639000000000	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-7H

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.)

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 - 220

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:
8H

6. Waste stream:
Glovebox gloves.

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 696.4000 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. All plutonium areas.
6. This buried waste stream is similar to stored waste content code 463.
9. The average weight per drum is 368 pounds for content code 463, for content code 339 it is 339 pounds. Total drum weight is 241,888 pounds. Waste stream contains 709 55-gallon drums. Content code 339 has 656 drums. Content code 463 has 53 drums.

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

2. Details on physical form(particularly confinement related)
Waste consists of leaded glove box gloves and aprons. The waste may contain limited amounts of unleaded gloves, lead bricks and lead sheeting.

3. Chemical form:
Pu oxide on leaded rubber.

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

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

6. Other characteristics of interest:
Content code 463, used in 1971-72, was replaced with content code 339 in 1973.

7. Comments (specify number of pertinent question):
4. PB and PL, 2 polyethylene drum bags were used to line the drums or drum liner.

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	Solid.		T 220000.00000000	GM	1954	1954			440000.000	
7439-92-1 Lead	Solid.		T 1100000.0000000	GM	1955	1955			2200000.00	
7439-92-1 Lead	Solid.		T 2220000.0000000	GM	1956	1956			4440000.00	
7439-92-1 Lead	Solid.		T 3210000.0000000	GM	1957	1957			6420000.00	
7439-92-1 Lead	Solid.		T 7450000.0000000	GM	1958	1958			14900000.0	
7439-92-1 Lead	Solid.		T 8180000.0000000	GM	1959	1959			16360000.0	
7439-92-1 Lead	Solid.		T 9680000.0000000	GM	1960	1960			19360000.0	
7439-92-1 Lead	Solid.		T 8860000.0000000	GM	1961	1961			17720000.0	
7439-92-1 Lead	Solid.		T 11500000.000000	GM	1962	1962			23000000.0	

* 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)
If any moisture was present, absorbent material (trade name Oil-Dry) was added to the drum.

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	Solid.		T 14000000.000000	GM	1963	1963			28000000.0	
7439-92-1 Lead	Solid.		T 12000000.000000	GM	1964	1964			24000000.0	
7439-92-1 Lead	Solid.		T 17300000.000000	GM	1965	1965			34600000.0	
7439-92-1 Lead	Solid.		T 21100000.000000	GM	1966	1966			42200000.0	
7439-92-1 Lead	Solid.		T 8120000.0000000	GM	1967	1967			16240000.0	
7439-92-1 Lead	Solid.		T 3510000.0000000	GM	1968	1968			7020000.00	
7439-92-1 Lead	Solid.		T 10200000.000000	GM	1969	1969			20400000.0	
7439-92-1 Lead	Solid.		T 13000000.000000	GM	1970	1970			26000000.0	

* 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)
If any moisture was present, absorbent material (trade name Oil-Dry) was added to the drum.

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 .20000000000000	CI	1954	1954				
Pu-238	Solid.	Oxides.	T .99800000000000	CI	1955	1955				
Pu-238	Solid.	Oxides.	T 2.0100000000000	CI	1956	1956				
Pu-238	Solid.	Oxides.	T 2.9100000000000	CI	1957	1957				
Pu-238	Solid.	Oxides.	T 6.7500000000000	CI	1958	1958				
Pu-238	Solid.	Oxides.	T 7.4100000000000	CI	1959	1959				
Pu-238	Solid.	Oxides.	T 8.7700000000000	CI	1960	1960				
Pu-238	Solid.	Oxides.	T 8.0200000000000	CI	1961	1961				
Pu-238	Solid.	Oxides.	T 10.400000000000	CI	1962	1962				

* 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	Solid.	Oxides.	T 12.700000000000	CI	1963	1963				
Pu-238	Solid.	Oxides.	T 10.900000000000	CI	1964	1964				
Pu-238	Solid.	Oxides.	T 15.600000000000	CI	1965	1965				
Pu-238	Solid.	Oxides.	T 19.100000000000	CI	1966	1966				
Pu-238	Solid.	Oxides.	T 7.3500000000000	CI	1967	1967				
Pu-238	Solid.	Oxides.	T 3.1800000000000	CI	1968	1968				
Pu-238	Solid.	Oxides.	T 9.2300000000000	CI	1969	1969				
Pu-238	Solid.	Oxides.	T 11.800000000000	CI	1970	1970				
Pu-239	Solid.	Oxides.	T 6.8100000000000	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-239	Solid.	Oxides.	T 34.100000000000	CI	1955	1955				
Pu-239	Solid.	Oxides.	T 68.600000000000	CI	1956	1956				
Pu-239	Solid.	Oxides.	T 99.200000000000	CI	1957	1957				
Pu-239	Solid.	Oxides.	T 230.00000000000	CI	1958	1958				
Pu-239	Solid.	Oxides.	T 253.00000000000	CI	1959	1959				
Pu-239	Solid.	Oxides.	T 299.00000000000	CI	1960	1960				
Pu-239	Solid.	Oxides.	T 274.00000000000	CI	1961	1961				
Pu-239	Solid.	Oxides.	T 356.00000000000	CI	1962	1962				
Pu-239	Solid.	Oxides.	T 433.00000000000	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.
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	Solid.	Oxides.	T 372.00000000000	CI	1964	1964				
Pu-239	Solid.	Oxides.	T 534.00000000000	CI	1965	1965				
Pu-239	Solid.	Oxides.	T 652.00000000000	CI	1966	1966				
Pu-239	Solid.	Oxides.	T 251.00000000000	CI	1967	1967				
Pu-239	Solid.	Oxides.	T 108.00000000000	CI	1968	1968				
Pu-239	Solid.	Oxides.	T 315.00000000000	CI	1969	1969				
Pu-239	Solid.	Oxides.	T 401.00000000000	CI	1970	1970				
Pu-240	Solid.	Oxides.	T 1.5200000000000	CI	1954	1954				
Pu-240	Solid.	Oxides.	T 7.6300000000000	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)

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-240	Solid.	Oxides.	T 15.400000000000	CI	1956	1956				
Pu-240	Solid.	Oxides.	T 22.200000000000	CI	1957	1957				
Pu-240	Solid.	Oxides.	T 51.600000000000	CI	1958	1958				
Pu-240	Solid.	Oxides.	T 56.600000000000	CI	1959	1959				
Pu-240	Solid.	Oxides.	T 67.000000000000	CI	1960	1960				
Pu-240	Solid.	Oxides.	T 61.300000000000	CI	1961	1961				
Pu-240	Solid.	Oxides.	T 79.800000000000	CI	1962	1962				
Pu-240	Solid.	Oxides.	T 97.100000000000	CI	1963	1963				
Pu-240	Solid.	Oxides.	T 83.200000000000	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)

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-240	Solid.	Oxides.	T 120.00000000000	CI	1965	1965				
Pu-240	Solid.	Oxides.	T 146.00000000000	CI	1966	1966				
Pu-240	Solid.	Oxides.	T 56.200000000000	CI	1967	1967				
Pu-240	Solid.	Oxides.	T 24.300000000000	CI	1968	1968				
Pu-240	Solid.	Oxides.	T 70.600000000000	CI	1969	1969				
Pu-240	Solid.	Oxides.	T 89.800000000000	CI	1970	1970				
Pu-241	Solid.	Oxides.	T 40.800000000000	CI	1954	1954				
Pu-241	Solid.	Oxides.	T 204.00000000000	CI	1955	1955				
Pu-241	Solid.	Oxides.	T 410.00000000000	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	Solid.	Oxides.	T 594.00000000000	CI	1957	1957				
Pu-241	Solid.	Oxides.	T 1380.0000000000	CI	1958	1958				
Pu-241	Solid.	Oxides.	T 1510.0000000000	CI	1959	1959				
Pu-241	Solid.	Oxides.	T 1790.0000000000	CI	1960	1960				
Pu-241	Solid.	Oxides.	T 1640.0000000000	CI	1961	1961				
Pu-241	Solid.	Oxides.	T 2130.0000000000	CI	1962	1962				
Pu-241	Solid.	Oxides.	T 2600.0000000000	CI	1963	1963				
Pu-241	Solid.	Oxides.	T 2220.0000000000	CI	1964	1964				
Pu-241	Solid.	Oxides.	T 3200.0000000000	CI	1965	1965				

* 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	Solid.	Oxides.	T 3900.0000000000	CI	1966	1966				
Pu-241	Solid.	Oxides.	T 1500.0000000000	CI	1967	1967				
Pu-241	Solid.	Oxides.	T 650.00000000000	CI	1968	1968				
Pu-241	Solid.	Oxides.	T 1890.0000000000	CI	1969	1969				
Pu-241	Solid.	Oxides.	T 2400.0000000000	CI	1970	1970				
Pu-242	Solid.	Oxides.	T .00009160000000	CI	1954	1954				
Pu-242	Solid.	Oxides.	T .00045800000000	CI	1955	1955				
Pu-242	Solid.	Oxides.	T .00092200000000	CI	1956	1956				
Pu-242	Solid.	Oxides.	T .00133000000000	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	Solid.	Oxides.	T .00310000000000	CI	1958	1958				
Pu-242	Solid.	Oxides.	T .00340000000000	CI	1959	1959				
Pu-242	Solid.	Oxides.	T .00402000000000	CI	1960	1960				
Pu-242	Solid.	Oxides.	T .00368000000000	CI	1961	1961				
Pu-242	Solid.	Oxides.	T .00479000000000	CI	1962	1962				
Pu-242	Solid.	Oxides.	T .00583000000000	CI	1963	1963				
Pu-242	Solid.	Oxides.	T .00500000000000	CI	1964	1964				
Pu-242	Solid.	Oxides.	T .00718000000000	CI	1965	1965				
Pu-242	Solid.	Oxides.	T .00877000000000	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	Solid.	Oxides.	T .00337000000000	CI	1967	1967				
Pu-242	Solid.	Oxides.	T .00146000000000	CI	1968	1968				
Pu-242	Solid.	Oxides.	T .00424000000000	CI	1969	1969				
Pu-242	Solid.	Oxides.	T .00539000000000	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-8H

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:
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.