DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 210

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/20/93

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

4. Particular facility: 666
(building number - use code from attached list)

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

6. Waste stream:
Depleted uranium turnings in mineral oil.

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

8. Actual years disposed of at SDA:
Starting year 1967 Ending year 1967

9. Waste stream volume:
Amount 0.4248 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):

1. General physical form (see attached list)
Unirradiated fuel from experiments.
[ ] other (specify)

2. Details on physical form(particularly confinement related)
Two 55-gallon drums, each contain a smaller drum packed in sawdust, which contains depleted uranium turnings in mineral oil.

3. Chemical form:

4. Inner packaging: [ ] plastic bag [ ] plastic liner
[ ] metal liner [ ] none [X] other (specify)
See 2 above.

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. Two each BLMs.

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

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

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

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
U-235	Solid in oil.	Oxide.	T .00006480000000	CI	1967	1967	N	-50%	+50%	
U-238	Solid in oil.	Oxide.	T .00466500000000	CI	1967	1967	N	-50%	+50%	

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

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
None.

8. Key assumptions used to deal with the unknowns:
No G-M correction is needed to the best estimate. The waste stream curie content and specific radionuclides were determined by means of the generator's analytical methods prior to shipping. Upper and lower bounds are estimated based on waste expert's judgment.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 115

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/20/93

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

4. Particular facility: 667
(building number - use code from attached list)

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

6. Waste stream:
Clothing, plastic bags and sweepings.

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

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

9. Waste stream volume:
Amount 1.0190 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. This should be included with CFA-669 (CFA laundry) according to shipping records (attached). Probable error in coding at the top of the shipping record and in RWMIS.

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

2. Details on physical form(particularly confinement related)
Three BXCs of waste.

3. Chemical form:

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):

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

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

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

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Surface contamination.	Unknown.	T .05000000000000	CI	1964	1964	N			
Sr-90	Surface contamination.	Unknown.	T .05000000000000	CI	1964	1964	N			

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

Additional information or explanations (indicate pertinent contaminant)

RWMIS lists zero curies. Based on 10 MR/L contact reading, assume some curies are present although not shown on shipping records. A total of 0.10 Ci estimated for shipment based on a review of shipments similar to this. MAP/MFP was also best guess estimate.

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
RWMIS reports zero curies but, based on a contact radiological reading, rad contamination of the package was assumed.

7. Major unknowns in inventories of contaminants:
Unknown curie content of shipment.

8. Key assumptions used to deal with the unknowns:
MAP/MFP determination and curie content estimate. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP and the G-M method was used by the generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 212

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/20/93

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

4. Particular facility: 667
(building number - use code from attached list)

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

6. Waste stream:
Contaminated lead.

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

8. Actual years disposed of at SDA:
Starting year 1963 Ending year 1963

9. Waste stream volume:
Amount 0.1699 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):

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

2. Details on physical form(particularly confinement related)
Probably metal.

3. Chemical form:
Meal.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. "Other" container type is a "GI can".

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

Contaminant & CAS Registry Number	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
7439-92-1 Lead	Metal.	Lead.	T 4322.0000000000	LB	1963	1963	N	4106	4538	+/- 5%. See comment below.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Basis for uncertainty: +/-5% based on estimate that most, if not all, of the shipment weight/volume is lead.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Solid.	Unknown.	T .00500000000000	CI	1963	1963	N			
Sr-90	Solid.	Unknown.	T .00500000000000	CI	1963	1963	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60 and MFP equals Sr-90; based on best guess estimate.

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
Isotope makeup of MAP and MFP.

8. Key assumptions used to deal with the unknowns:
Assumed MAP to be Co-60. Assumed MFP to be Sr-90. Percentage of lead in shipment. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP and the G-M method was used by the generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 132

1. Preparer: Jorgensen, Doug

2. Date prepared: 08/02/93

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

4. Particular facility: 669
(building number - use code from attached list)

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

6. Waste stream:
Combustibles and dirt.

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

8. Actual years disposed of at SDA:
Starting year 1960 Ending year 1982

9. Waste stream volume:
Amount 722.5520 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. CFA-669 is the Central Facilities Laundry.
9. Original RWMIS records report 720.4 m3 waste stream volume. An additional RWMIS listing labeled CFA-699, should have been CFA 669 and contains two records that have been added here. The CFA-699 records have a total volume of 2.152 m3.

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

2. Details on physical form(particularly confinement related)
Rags, paper, and wood.

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:
None.

7. Comments (specify number of pertinent question):
5. BLM, BLX, BXW and "Other". "Other" includes disposed dirt and a large metal item, such as a laundry washer.

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

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

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Based on interviews with Dixie Lainhart and Judy Lish, no information is available on CFA laundry hazardous chemical wastes disposed of.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Contaminated clothing, paper, dirt and metal.	Unknown.	T 10.200000000000	CI	1960	1982	N			
Cs-137	Contaminated clothing, paper, dirt and metal.	Unknown.	T 10.394000000000	CI	1960	1982	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60, MFP and UN-ID-B&G equals Cs-137; both based on best guess estimate.

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

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

2. Details concerning source (names, report no., dates, etc.)
Interviews concerning hazardous chemicals with Judy Lish and Dixie Lainhart. "EG&G Installation and Assessment Report", EGG-WM-6875, January, 1986.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
No data available on hazardous chemicals.

8. Key assumptions used to deal with the unknowns:
MAP/MFP determination.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 101

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/27/93

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

4. Particular facility: 674
(building number - use code from attached list)

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

6. Waste stream:
Laboratory waste contaminated with P-32, U-235 and U-238. Excess property (furniture, machinery, valves, boxes, wire, noses, and filters) and combustible waste.

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

8. Actual years disposed of at SDA:
Starting year 1961 Ending year 1975

9. Waste stream volume:
Amount 26.1900 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
9. RWMIS shows 26.48 m3.

1. General physical form (see attached list)
Other scrap metals.
[X] other (specify)
2, 21, 22, 42, 44, 45.

2. Details on physical form(particularly confinement related)
A 07/06/67 shipment of aluminum particles coated with UO3 is contained in a glass bottle (1 ft3) and 5E-4 curies.

3. Chemical form:
Some UO3 (0.1699 m3 and 6E-3 curies).

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

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

6. Other characteristics of interest:
Other equals bulky scrap metal not in containers.

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

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

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

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

Additional information or explanations (indicate pertinent contaminant)

Liquid chemical waste included with CPP waste.

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
P-32	Solid.	Unknown.	T .00100000000000	CI	1961	1961	N	-20%	+20%	
Co-60	Solid.	Unknown.	T .00400000000000	CI	1966	1975	N	-20%	+20%	
Sr-90	Solid.	Unknown.	T .00860000000000	CI	1963	1975	N	-20%	+20%	
I-131	Solid.	Unknown.	T .00001000000000	CI	1965	1965	N	-20%	+20%	
Cs-137	Solid.	Unknown.	T .00040000000000	CI	1971	1974	N	-20%	+20%	
U-235	Solid.	Unknown.	T .00900000000000	CI	1965	1965	N			
U-238	Solid.	Unknown.	T .10050000000000	CI	1967	1969	N			

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

Additional information or explanations (indicate pertinent contaminant)

Pu oxide shown on RWMIS for 09/29/67 shipment, but shipping records do not show any. There were a number of places where RWMIS data did not reflect shipping record data. This tabulation reflects shipping record data. RWMIS isotopic breakdown and totals differ somewhat from shipping records. Total curies per RWMIS is 0.1225. Unknown uranium isotope of (0.008Ci) is assumed to be U-235.

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
Numerous discrepancies in isotope reported from shipping records versus RWMIS.

7. Major unknowns in inventories of contaminants:
Isotope make-up of MAP, MFP and UN-ID-B&G.

8. Key assumptions used to deal with the unknowns:
Assumed Map to be Co-60; MFP to be Sr-90; UN-ID-B&G to be 1/3 Co-60, 1/3 Sr-90, and 1/3 Cs-137. No G-M correction is needed to the best estimate for the uranium radionuclide entries. The uranium entries in the waste stream were identified by analytical methods or weight. The G-M correction is needed to the best estimate for the other radionuclides, because they were estimated by that method. Upper and lower bounds estimated based on waste expert's judgment.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 126

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/27/93

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

4. Particular facility: 683
(building number - use code from attached list)

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

6. Waste stream:
Contaminated crane, two pickups, tanker, trailer, traveler wheels, scrap metal and some wood.

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

8. Actual years disposed of at SDA:
Starting year 1971 Ending year 1973

9. Waste stream volume:
Amount 74.8000 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
7. RWMIS shows 73.5 m3 over seven records. Could only find six shipping records.

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

2. Details on physical form(particularly confinement related)
Appears to be solid direct burial with no confinement.

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:
Direct burial.

7. Comments (specify number of pertinent question):
5. Does not appear to be any packaging, only direct burial.

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

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

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

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	* Basis for Uncertainty
Co-60	Solid.	Unknown.	T .02140000000000	CI	1972	1973	N			
Sr-90	Solid.	Unknown.	T .02998000000000	CI	1973	1973	N			
Cs-137	Solid.	Unknown.	T .01100000000000	CI	1973	1973	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60, MFP equals Sr-90, UN-ID-B&G equals 1/3 Co-60, 1/3 Sr-90, and 1/3 Cs-137; based on best guess estimate.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - CFA-683-1H

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

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

2. Details concerning source (names, report no., dates, etc.)
"EG&G Installation and Assessment Report", EGG-WM-6875, January, 1986.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
Could only find six shipping records. Remaining records agree closely.

7. Major unknowns in inventories of contaminants:
Isotope make-up of MAP, MFP and UN-ID-B&G.

8. Key assumptions used to deal with the unknowns:
Assumed MAP to be Co-60; MFP to be Sr-90; and UN-ID-B&G to be 1/3 Co-60, 1/3 Sr-90 and 1/3 Cs-137. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP and the G-M method was used by the generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 186

1. Preparer: Jorgensen, Doug

2. Date prepared: 09/20/93

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

4. Particular facility: 684
(building number - use code from attached list)

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

6. Waste stream:
Irradiated steel specimens, rags, paper, plastic bags and some graphite.

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

8. Actual years disposed of at SDA:
Starting year 1967 Ending year 1969

9. Waste stream volume:
Amount 0.5578 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. RWMIS records for CFA-635 are in error and belong to CFA-684 (Reactor Eng.). Those records were added to this form.
9. RWMIS shows 0.396 m3. Only two of 13 "volumes" taken from the shipping papers were entered correctly.

1. General physical form (see attached list)
Other scrap metals.
[X] other (specify)
16, 21.

2. Details on physical form(particularly confinement related)
Most metal specimens were transported using a lead pig, but were removed from the pig before burial in poly rag.

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BXC and "Other", equals packaged materials unloaded from lead pig in poly bags. Also, tin can for one shipment and a 5-gallon poly carboy for another shipment.

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
143-33-9 Sodium Cyanide	Liquid.	Sodium cyanide.	T 936.00000000000	GM	1967	1967	N			
1310-73-2 Sodium Hydroxide	Liquid.	Sodium hydroxide.	T 148.00000000000	GM	1967	1967	N			
None-CN. Cyanide	Liquid sorbed onto vermiculite.	Unknown.	Unknown.	GM	1969	1969	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Also, 6 oz. of an additional compound designated CD, which is not readable, were disposed of in 1967. The 1969 shipment was in a 5-gallon carboy.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Fe-59	Solid.		T .70000000000000	CI	1968	1968	N			
Co-60	Solid.		T 46.250000000000	CI	1968	1969	N			
Sr-90	Solid.		T 51.250000000000	CI	1968	1969	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60 and MFP equals Sr-90; based on best guess estimate.

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

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

2. Details concerning source (names, report no., dates, etc.)
"EG&G Installation and Assessment Report", EGG-WM-6875, January, 1986.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
Most volumes were entered incorrectly. Seven and 1/2 curies was missed on RWMIS. The 04/15/68 shipment was Fe-59, but RWMIS shows MAP and MFP.

7. Major unknowns in inventories of contaminants:
Isotope make up of MAP and MFP.

8. Key assumptions used to deal with the unknowns:
Assumed MAP to be Co-60, MFP to be Sr-90. Assumed shipping papers to be correct. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP and the G-M method was used by the generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 185

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/15/93

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

4. Particular facility: 685
(building number - use code from attached list)

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

6. Waste stream:
Metal, paper and cloth (oil soaked).

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

8. Actual years disposed of at SDA:
Starting year 1972 Ending year 1974

9. Waste stream volume:
Amount 31.1500 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. CFA-685 is currently the bus depot.
8. Two records of disposal. One in 1972 and one in 1974.

1. General physical form (see attached list)
Combustibles (paper, cloth, wood, etc.).
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Contaminated SL-1 dump-truck, oil soaked rags and paper.

3. Chemical form:
Combustibles and metal.

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

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

6. Other characteristics of interest:
Bulky items, such as a dump-truck, with no packaging.

7. Comments (specify number of pertinent question):

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

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

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

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Surface contamination of metal and combustibles.	Unknown.	T .00250000000000	CI	1972	1974	N			
Cs-137	Surface contamination of metal and combustibles.	Unknown.	T .04760000000000	CI	1972	1974	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60 and MFP equals Cs-137; based on best guess estimate and the fact that the truck was involved in SL-1 cleanup.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - CFA-685-1H

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
Unknown volume of oil.

8. Key assumptions used to deal with the unknowns:
MAP and MFP determination.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 102

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/28/93

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

4. Particular facility: 687
(building number - use code from attached list)

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

6. Waste stream:
Scrap metal and lead.

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

8. Actual years disposed of at SDA:
Starting year 1964 Ending year 1980

9. Waste stream volume:
Amount 22.7400 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. CFA-687 is the CFA Lead Shop.

1. General physical form (see attached list)
Lead.
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Lead scrap.

3. Chemical form:
Metal.

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

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

6. Other characteristics of interest:
Other in #5 is lead cask and bulky items not packaged.
Probably some bulk soil.

7. Comments (specify number of pertinent question):
5. BXW. One-half are 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
7439-92-1 Lead	Metal.	Lead.	T 333879.40000000	LB	1964	1980	N			

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

Additional information or explanations (indicate pertinent contaminant)

Lead reported in shipping manifests with other items such as metal, soil, dirt, etc. Considered as an estimate, when lead was included with other items, that 1/2 of the volume was lead. This is the best estimate that can be made and is within +/-20%, based on the level of errors in this type of assumption.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Metal with surface contamination.	Unknown.	T .02270000000000	CI	1964	1980	N			
Cs-137	Metal with surface contamination.	Unknown.	T .02270000000000	CI	1964	1980	N			

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

Additional information or explanations (indicate pertinent contaminant)

MAP equals Co-60 and MFP equals Cs-137; based on best guess estimate.

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

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

2. Details concerning source (names, report no., dates, etc.)
None.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
No information could be obtained other than records. Two records could not be located for verification.

8. Key assumptions used to deal with the unknowns:
Percentage lead and MFP/MAP determination.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 131

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/28/93

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

4. Particular facility: 690
(building number - use code from attached list)

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

6. Waste stream:
Combustibles, animal carcasses and feces, scrap metal, sources, sand and gravel.

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

8. Actual years disposed of at SDA:
Starting year 1960 Ending year 1981

9. Waste stream volume:
Amount 451.5000 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
CFA-690 is the RESL building.

1. General physical form (see attached list)
Biological waste.
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Animal carcasses and feces.

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:
None.

7. Comments (specify number of pertinent question):
5. BLM, BXW and "Other". BXC is predominant container type and "Other" equals bulky unpackaged items. Types are listed in descending order of appearance in RWMIS.

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

Contaminant & CAS Registry Number	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
7440-67-7 Zirconium	Metal and alloy.	Zirconium.	T 2100.0000000000	LB	1969	1969	N	-10%	+10%	See comment below.

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

Additional information or explanations (indicate pertinent contaminant)

1. Zirconium metal and alloy shipped in 27 metal tote boxes and volume of zirconium in boxes is an approximation +/-10%.
2. Could not locate disposal records for sulfuric acid, however, RWMIS tech. notes for this generator identifies these wastes as entries on shipping records. Because shipping records cannot be located for verification, quantities disposed of will not be estimated.
3. P-terphenyl (Santo wax) with a CAS # of 92-94-4 was disposed of as a liquid with a quantity estimated of 90,754 gallons, +/-10%. Santo Wax is not on the CERCLA list.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Sources - surface contimination.	Unknown.	T 61.526000000000	CI	1960	1981	N	-50%	+50%	
Cs-134	Surface contamination.	Unknown.	T .00003300000000	CI	1960	1981	N	-50%	+50%	
Cs-137	Surface contamination.	Unknown.	T 31.901000000000	CI	1960	1981	N	-50%	+50%	
I-131	Lab and animal waste.	Unknown.	T .00013300000000	CI	1960	1981	N	-50%	+50%	
Mn-54	Lab and animal waste.	Unknown.	T .00293000000000	CI	1960	1981	N	-50%	+50%	
Pu-240	Solid.	Unknown.	T .00100000000000	CI	1960	1981	N	-50%	+50%	
Ra-226	Sources.	Unknown.	T .03770000000000	CI	1960	1981	N	-50%	+50%	
Ru-103	Unknown.	Unknown.	T .00125000000000	CI	1960	1981	N	-50%	+50%	
Sr-85	Unknown.	Unknown.	T .00010000000000	CI	1960	1981	N	-50%	+50%	

* 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)
MAP equals Co-60, MFP equals 1/2 Cs-137 and 1/2 Sr-90 and UN-B&G equals Sr-90; based on best guess estimate.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Surface contamination.	Unknown.	T 34.959000000000	CI	1960	1981	N	-50%	+50%	
U-235	Unknown.	Unknown.	T .00003234000000	CI	1960	1981	N	-50%	+50%	
U-238	Unknown.	Unknown.	T .00310000000000	CI	1960	1981	N	-50%	+50%	

* 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)

MAP equals Co-60, MFP equals 1/2 Cs-137 and 1/2 Sr-90 and UN-B&G equals Sr-90; based on best guess estimate.

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

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

2. Details concerning source (names, report no., dates, etc.)
Interview with Darlene Blomstrom and John Marthis.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
Hazardous substances total volume and/or additions. Unknowns of some of the processes. Appears this building shipped waste from a variety of sources.

8. Key assumptions used to deal with the unknowns:
MAP, MFP and unidentified beta/gamma determination. Did not pull out all 203 shipping records. Assume the 2/3 of the total that were looked at are representative of entire record set. No G-M correction is needed to the best estimate. The waste stream curie content and specific radionuclides were determined by means of the generator's analytical methods prior to shipping. Upper and lower bounds are estimated based on waste expert's judgment.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 125

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/19/93

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

4. Particular facility: 691
(building number - use code from attached list)

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

6. Waste stream:
Sewage plant sludge, plant waste, wood and metal.

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

8. Actual years disposed of at SDA:
Starting year 1975 Ending year 1980

9. Waste stream volume:
Amount 53.3900 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):

1. General physical form (see attached list)
Sludge.
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Primarily sewer sludge.

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BLM, primarily BXW (9), but also includes 4 BLM containers.

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

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

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Based on interviews, no information is available on hazardous chemicals from this generator.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Solid.	Unknown.	T .08270000000000	CI	1975	1980	N			
Sr-90	Solid.	Unknown.	T .09025000000000 *	CI	1975	1979	N			
										*

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60 and MFP equals Sr-90; based on best guess estimate.

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

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

2. Details concerning source (names, report no., dates, etc.)
Interviews with Dixie Lainhart.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
Isotope make-up of MAP and MFP.

8. Key assumptions used to deal with the unknowns:
Assumed MAP to be Co-60 and MFP to be Sr-90. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP and the G-M method was used by the generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 116

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/20/93

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

4. Particular facility: 698
(building number - use code from attached list)

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

6. Waste stream:
Beryllium samples which were contaminated by ATR, primary coolant.

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

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

9. Waste stream volume:
Amount 0.0283 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):

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

2. Details on physical form(particularly confinement related)
Beryllium samples are contained in a plastic bag.

3. Chemical form:
Metal.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. "Other" equals plastic 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
7440-41-7 Beryllium	Metal.	Beryllium.	T 115.20000000000	LB	1970	1970	N	-100%	+100%	See comment below.

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

Additional information or explanations (indicate pertinent contaminant)

Basis for uncertainty: based on shipping record - beryllium is in plastic bags and entire volume can be assumed to be beryllium.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Solid.	Metal.	T .00100000000000	CI	1970	1970	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MFP equals Sr-90, based on best guess estimate.

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
Isotope make-up of MFP and volume of beryllium.

8. Key assumptions used to deal with the unknowns:
Assumed MFP to be Sr-90. Assumptions in Be calculation. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP, G-M method was used by generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 124

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/22/93

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

4. Particular facility: 766
(building number - use code from attached list)

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

6. Waste stream:
Sludge tank sludge, soil, piping, cans and wood.

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

8. Actual years disposed of at SDA:
Starting year 1973 Ending year 1981

9. Waste stream volume:
Amount 82.5300 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
9. Could not find shipping records for 19 BXW (volume 68.87 m3 and 0.135 Ci). RWMIS lists 151.40 m3, but because shipping records could not be verified, assume these 19 BXWs were not shipped.

1. General physical form (see attached list)
Sludge.
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Sewer sludge from CFA sewage treatment plant (dried).

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. Primarily BXW, but some "Others" listings. No information available on the "Others".

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

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

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Based on interviews, no information is known concerning hazardous chemicals in this waste stream.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Sludge, wood and metal.	Unknown.	T .06490000000000	CI	1964	1983	N			
Cs-137	Sludge, wood and metal.	Unknown.	T .07390000000000	CI	1964	1983	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MAP equals Co-60; MFP equals Cs-137; based on best guess estimate.

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

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

2. Details concerning source (names, report no., dates, etc.)
Interviews with Dixie Lainhart.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
RWMIS reports a 1983 record with 68.87 m3 and 0.135 curies. There are no verifying records and RWMIS shows no matching information. This data was dropped from the record.

7. Major unknowns in inventories of contaminants:
No information on chemical hazardous material.

8. Key assumptions used to deal with the unknowns:
MAP/MFP determination and deletion of 1983 record.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 104

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/21/93

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

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

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

6. Waste stream:
Laundry waste general plant waste graphite, stainless steel tubes and samples, Mark 'B7 specimens, rubber fabric hose and some steel backhoe parts.

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

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

9. Waste stream volume:
Amount 18.7900 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
3. This generic RWMIS listing (CFA) includes primarily three generators, including: CFA Health Physics, Metallurgy and Materials Science, and CFA Maintenance.

1. General physical form (see attached list)
Combustibles (paper, cloth, wood, etc.).
[X] other (specify)
10.

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

3. Chemical form:

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. "Other" equals plastic bags, two lead casks, which were not buried, and some backhoe parts wrapped in plastic.

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

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

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

Additional information or explanations (indicate pertinent contaminant)

Although hazardous chemicals are not reported, it would seem probable that some hazardous chemicals would have been disposed with the waste shipment from the CFA Metallurgy and Materials Science Lab.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Solid.	Unknown.	T 1.0390000000000	CI	1971	1971	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
MFP equals Sr-90, based on best guess estimate.

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
RWMIS shows 4 each "Others" (containers), but one of the shipping records (01/28/71) doesn't have the number of containers. Assuming this 1/2 cubic foot "Other" to be one, gives a total of five "Others". All other data agree.

7. Major unknowns in inventories of contaminants:
Isotope make-up of MFP.

8. Key assumptions used to deal with the unknowns:
Assumed MFP to be Sr-90. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP, G-M method was used by generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 123

1. Preparer: Jorgensen, Doug

2. Date prepared: 08/03/93

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

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

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

6. Waste stream:
Contaminated soil, concrete, bricks, piping, components, metal scrap, rags, mops, filters, wooden pallets and plastic wrapping.

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

8. Actual years disposed of at SDA:
Starting year 1974 Ending year 1981

9. Waste stream volume:
Amount 350.4000 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
9. RWMIS shows 350.4 m3. Shipping records available accounted for 325 m3. There were 13 files listed on RWMIS for 1974, which could not be located. There were some disagreements between shipping records and RWMIS as shown.

1. General physical form (see attached list)
Soil.
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Much soil was apparently transported loose.

3. Chemical form:

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BLM, BXC, BLX, and BXW. Much soil transported in undefined "Other" containers.

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
11135-81-2 Sodium Potassium	Solid.	NaOH/KOH.	T 3793.5000000000	LB	1974	1981	N			

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Starting year and ending year are unknown. NaK was reacted with water in a strongly basic solution (NaOH/KOH), the solution solidified by evaporation and cooling and disposed of as solid waste at RWMC in 93 drums.

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Solid.	NaOH/KOH.	T .00130000000000	CI	1975	1981	N			
Sr-90	Solid.	NaOH/KOH.	T .11110000000000	CI	1974	1981	N			
Cs-137	Solid.	NaOH/KOH.	T 20.280000000000	CI	1975	1975	N			

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

Additional information or explanations (indicate pertinent contaminant)

RWMIS shows 21.39 curies. There are 15 instances where the shipping records differ from RWMIS. This amounts to a 15 curie deficit on RWMIS.

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

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

2. Details concerning source (names, report no., dates, etc.)
"EG&G Installation and Assessment Report" for NaK shipments, EGG-WM-6875, January, 1986.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
There is about a 15 curie deficit in RWMIS on just 15 records. (See RWMIS and work sheet.)

7. Major unknowns in inventories of contaminants:
Isotope make-up of MAP and MFP. Chemical form of NaK neutralized solid is correct volume.

8. Key assumptions used to deal with the unknowns:
Assumed MAP to be Co-60, assumed MFP to be Sr-90. G-M correction is needed to the best estimate. The waste stream inventory was identified by the generator as MFP, G-M method was used by generator to estimate total curie content.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 103

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/19/93

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

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

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

6. Waste stream:
Contaminated sod, wood and blotting paper.

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

8. Actual years disposed of at SDA:
Starting year 1981 Ending year 1981

9. Waste stream volume:
Amount 25.3680 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. EFS - Dairy Farm.

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

2. Details on physical form(particularly confinement related)
All waste in BXW.

3. Chemical form:

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. Twelve each 64 cubic ft. and 1 each 128 cu ft.

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

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

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

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ba-133	Solid.	Unknown.	T .00107000000000	CI	1981	1981	N			
Cs-137	Solid.	Unknown.	T .00036000000000	CI	1981	1981	N			

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

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

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

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

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
None.

8. Key assumptions used to deal with the unknowns:
None.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 105

1. Preparer: Jorgensen, Doug

2. Date prepared: 07/19/93

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

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

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

6. Waste stream:
Various ripout materials, including contaminated tubing, a uranium film sampler, structural metals, concrete, rags, paper and plastic.

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

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

9. Waste stream volume:
Amount 104.0000 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. ZPR - Zero Power Reactor III.
9. RWMIS shows 98.33 m3.

1. General physical form (see attached list)
Other scrap metals.
[X] other (specify)
5.

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

3. Chemical form:
Unknown.

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

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

6. Other characteristics of interest:
Records indicate that most of the "other" were loose loads of ripout structural material.

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

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

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

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

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

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Solid.	Unknown.	T .00200000000000	CI	1974	1974	N	-50%	+50%	
U-238	Solid.	Unknown.	T .01210000000000	CI	1974	1974	N	-50%	+50%	

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

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

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

2. Details concerning source (names, report no., dates, etc.)
"EG&G Installation Assessment Report", EGG-WM-6875, January, 1986.

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

4. If other than best estimate, explain why:

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

6. If yes, explain why:
Curie content matches but volume shown in cubic meters differs some what (see A.10).

7. Major unknowns in inventories of contaminants:
Isotopes which make-up UN-ID-Alpha and MFP.

8. Key assumptions used to deal with the unknowns:
Assumed UN-ID-Alpha to be U-238, MFP to be Cs-137. No G-M correction is needed to the best estimate. The waste stream curie content and specific radionuclides were determined by means of the generator's analytical methods prior to shipping. Upper and lower bounds are estimated based on waste expert's judgment.