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# Characteristics of Low-Level Radioactive Waste Disposed During 1987 Through 1989

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**U.S. Nuclear Regulatory Commission**

**Office of Nuclear Material Safety and Safeguards**

G. W. Roles



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G. W. Roles

Division of Low-Level Waste Management and Decommissioning  
Office of Nuclear Material Safety and Safeguards  
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Washington, DC 20555





## ABSTRACT

This report presents the volume, activity, and radionuclide distributions in low-level radioactive waste (LLW) disposed during 1987 through 1989 at the commercial disposal facilities located near Barnwell, SC, Richland, WA, and Beatty, NV. The report has been entirely assembled from descriptions of waste provided in LLW shipment manifests. Individual radionuclide distributions are listed as a function of waste class, of general industry, and of waste stream. In addition, information is presented about disposal of wastes containing chelating agents, about use of solidification media, about the distribution of radiation levels at the surfaces of waste containers, and about the distribution of waste container sizes. Considerably more information is presented about waste disposed at the Richland and Beatty disposal facilities than at the Barnwell disposal facility.



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## 1. INTRODUCTION

This report presents the volume, activity, and radionuclide distributions in low-level waste (LLW) disposed during 1987 through 1989 at the commercial disposal facilities located near Barnwell, SC, Richland, WA, and Beatty, NV. The report has been prepared as a source of general LLW data for use by regulatory agencies, disposal facility developers, consultants, and others.

The report begins with a section discussing the derivation of the assembled data. The report then presents the following sections:

- Basic volume and activity distributions
- Volume and activity distributions per general industry
- Volumes and gross activities per waste stream
- Radionuclides in LLW in significant quantities
- Distribution of long-lived radionuclides
- Other information
- References

The report includes a glossary and six appendices. The glossary summarizes the elemental abbreviations used in the report. Appendices A through C list individual radionuclide distributions as a respective function of waste class, general industry, and waste stream. Although the first of these three appendices provides data for all three disposal facilities, the last two appendices provide data for only the Richland and Beatty facilities. Appendix D provides additional information about waste disposed during 1989 at the Richland facility; it lists radionuclide distributions as a function of waste stream and general industry. Appendix E provides general information about use of sorbent and solidification media at the Richland and Beatty facilities. Appendix F expands the information in Appendix E by listing radionuclide distributions as a function of sorbent and solidification media for the Richland facility. All appendices except Appendices D and F consider the years 1987 through 1989; Appendices D and F consider 1989 only.

## 2. DERIVATION OF REPORT INFORMATION

This report has been entirely assembled from descriptions of waste provided in manifests accompanying LLW shipments to LLW disposal facilities.

Each shipment to a LLW disposal facility is accompanied by manifests and other documentation that describe the shipment contents. Manifests are large, detailed documents containing information required by Nuclear Regulatory Commission (NRC) regulations in Title 10, Code of Federal Regulations, Part 20 (10 CFR Part 20), Department of Transportation Regulations in 49 CFR Part 172, and State regulations and requirements. A manifest consists of a title page, which presents information applicable to the shipment as a whole, plus one or

more continuation sheets, which describe individual containers of waste. A bill of lading must also be included as required by the Interstate Commerce Commission in 49 CFR Part 1054. Additional documentation is usually required by disposal facility license condition.

Three LLW disposal facilities currently operate: the Barnwell, SC disposal facility operated by Chem-Nuclear Systems, Inc. (CNSI), and the Richland, WA, and Beatty, NV, facilities operated by U.S. Ecology, Inc. (USE). Upon receipt of a shipment of LLW, disposal facility operators perform quality control checks on the shipment and the information in the manifest, and transcribe portions of the manifest information into computer recordkeeping systems. The disposal facility operators have independently developed these computer systems to assist them in business activities and in making reports as required by NRC and State regulations and disposal facility license conditions. The computer systems are necessary to store and process the manifest information, which is voluminous. Each year the operators receive thousands of shipment manifests, and each manifest consists of several sheets of paper filled with detailed information about the waste.

Both disposal facility operators carry out quality control procedures to check the accuracy of the information transcription process. USE transcribes any radionuclide having an activity of one microcurie or less as one microcurie. CNSI transcribes the most significant radionuclides, either in terms of quantity or radiological hazard. Some adjustment is performed on very short-lived radionuclides to avoid round-off errors when summing over the individual radionuclides in the shipment.

Over the past several years, NRC has purchased microfiche copies of shipment manifests from the disposal facility operators, as well as computer printouts of the LLW data sorted in different ways. In addition, NRC has contracted with the Utility Data Institute (UDI) to access USE's WASTENET computer system for the Richland and Beatty disposal facilities. (UDI markets a limited number of programs for the WASTENET system based on an agreement with USE.)

These computer systems were created and are owned by the disposal facility operators. Some of the computer printouts, as well as many of the microfiched shipment manifests, contain information that the operators consider copyrighted or business proprietary information. Such information has been excluded from this report.

In assembling the data for this report, the author did not attempt to verify the accuracy of the information reported by waste generators on shipment manifests. In general, therefore, the author presents information as it was provided by the disposal facility operators. But the author did review the results of different printouts to ensure that the information in the printouts was consistent. As part of this process, a few matters came to light that bear mentioning.

First, this report contains considerably more information about waste delivered to the USE disposal facilities than to the CNSI disposal facility. This is mainly because the operators' computer systems store different information in different formats. CNSI was the first operator to develop a computer system to



store manifest information, whereas USE followed a number of years later. The CNSI system stores less information than does the USE system. Furthermore, the CNSI system stores manifest information as summarized across the entire shipment, which makes it difficult to consistently associate a particular type or class of waste with a given container in a shipment. (And has apparently contributed to a few minor discrepancies which may be observed in this report.) Without laboriously reviewing shipment manifests, one cannot precisely determine the radionuclide distributions in different waste streams if more than one waste stream is included in a particular shipment. The newer USE system stores information on a waste container basis. The USE manifest contains features such as index codes that ease computer storage and information processing.

In addition, the wastes are described differently depending on the manifest form. Each operator specifies use of a particular manifest form, and although the manifests used by the two operators are similar, they are not identical (more on this later).

Another consideration is the mutable nature of the data stored in the operators' computer systems. Changes may occur, for example, because subsequent to waste disposal, a waste generator sends a modified shipment manifest to a disposal facility operator. These modifications might reflect an improved estimate of the radionuclide distribution in waste. Consequently, the results of computer programs run today may differ slightly from those run tomorrow, and the data used to prepare this report were assembled over 3 years.

Furthermore, the information provided in LLW shipment manifests is imprecise, reflecting uncertainties in measurements. Although a radioactive isotope is not necessarily absent merely because one hasn't looked for it, the author believes that the radionuclide inventories listed in shipment manifests tend to be conservative. This conservatism can be extreme for radionuclides such as I-129 that are contained in trace quantities in waste and cannot be readily measured using nondestructive measurement techniques. Generators usually estimate the concentrations of these radionuclides in waste by scaling to other, easy-to-measure radionuclides such as Cs-137. Scaling factors are determined by obtaining waste samples and by measuring for the radionuclides of interest using complex radiochemical techniques. The results of the analyses are often below the lower limit of detection (LLD) for the analysis technique. By basing scaling factors on LLD values, generators can exaggerate the reported quantities of these radionuclides by factors considerably greater than 10. (See References 1 and 2.)

Because of these uncertainties, the information in the main body of this report is usually presented in exponential notation using a limited number of significant figures. But this leads to a quandary: too many significant figures implies an inflated accuracy; too few leads to round-off errors. As a compromise, four significant figures are normally used.

All volumes are in units of cubic feet rather than cubic meters, because a cubic foot is the volume unit used on shipment manifests. These volumes all refer to the envelope volume of the container in which the waste is shipped, rather than the volume of the waste within the container. For most wastes, the

volume of the waste will not differ dramatically from that of the container, although activated metal wastes are a notable exception. (These wastes are typically materials such as tubing that contain large voids. The ratio of the waste "full-density" volume -- the volume represented by the elimination of all voids -- to the volume of the waste container seldom exceeds 15 percent.)

All radionuclide activities in the main report are in units of curies (Ci), as are activities in Appendix A. Activities in Appendices B through F are in units of millicuries (mCi). The older curie and millicurie units are used in this report, rather than the newer Becquerel units, because the older units are still customarily used on shipment manifests.

### 3. BASIC VOLUME AND ACTIVITY DISTRIBUTIONS

Tables 1 through 3 summarize gross volume and activity distributions for the three disposal facilities for the years 1987 through 1989. For these three years, the total waste volume varied over a range of about 420,000 ft<sup>3</sup>, from a low of 1,430,000 ft<sup>3</sup> to a high of 1,850,000 ft<sup>3</sup>. The activity, however, experienced a more dramatic change. Although the total waste activity reported during 1987 was 270,000 Ci, and during 1988 was 260,000 Ci, the total waste activity reported during 1989 was 870,000 Ci. That is, the total waste activity for 1989 was three times that for either 1987 or 1988. Using 1988 as a comparison, the total 1989 activity rose by a factor of nearly five for the Beatty facility, a factor of 3.1 for the Richland facility, and a factor of 3.3 for the Barnwell facility. Of note is the 476,000-curie increase in Class C waste activity at the Barnwell facility, which resulted generally from disposal of activated metals dominated by isotopes having short half-lives.

The fractional distribution of the waste volume among the three waste classes is similar for all three years. Class A waste comprises 96-97 percent of the volume, Class B waste 2-3 percent, and Class C waste 0.5-1 percent. However, the fractional distribution of the waste activity differs. In 1987 and 1988, Class A waste comprised 10-11 percent of the activity, Class B waste 23-25 percent, and Class C waste 65-66 percent. In 1989, more activity shifted to Class C waste. Seventy-eight percent of the activity was in Class C waste, whereas only 19 percent was in Class B waste and 3 percent in Class A waste.

Tables 4 through 6 present the same data as do Tables 1 through 3, but the focus is different. That is, Tables 4 through 6 emphasize the comparison of one disposal facility with another. The Barnwell facility consistently received over half the waste volume and over three-quarters of the waste activity.

(Information about isotopic distributions in LLW is provided in Appendix A. This appendix lists inventories of all reported radionuclides as a function of year, disposal facility, and waste class.)

Table 7 provides additional information about the volume and activity distribution in Class A waste. In 10 CFR 61.56, NRC regulations require disposal of Class B and C wastes in a manner that provides structural stability, where structural stability can be provided by the waste form itself,

Table 1. 1987 Gross Volume and Activity Distribution

<u>Site and Class</u>	<u>Volume (ft<sup>3</sup>)</u>	<u>Activity (Ci)</u>
<u>Barrwell</u>		
Class A	9.175E+5 (96.0%)	1.953E+4 (9.3%)
Class B	3.121E+4 (3.3%)	2.830E+4 (13.4%)
Class C	7.090E+3 (0.7%)	1.633E+5 (77.4%)
Total	9.558E+5	2.111E+5
<u>Richland</u>		
Class A	5.478E+5 (98.4%)	4.187E+3 (8.8%)
Class B	7.225E+3 (1.3%)	3.023E+4 (63.7%)
Class C	1.584E+3 (0.3%)	1.307E+4 (27.5%)
Total	5.566E+5	4.748E+4
<u>Beatty</u>		
Class A	3.317E+5 (99.8%)	2.355E+3 (21.2%)
Class B	6.770E+2 (0.2%)	8.590E+3 (77.4%)
Class C	3.122E+1 (0.01%)	1.564E+2 (1.4%)
Total	3.324E+5	1.110E+4
<u>Total</u>		
Class A	1.797E+6 (97.4%)	2.607E+4 (9.7%)
Class B	3.911E+4 (2.1%)	6.711E+4 (24.9%)
Class C	8.705E+3 (0.5%)	1.765E+5 (65.4%)
Total	1.845E+6	2.697E+5

Table 2. 1988 Gross Volume and Activity Distribution

<u>Site and Class</u>	<u>Volume (ft<sup>3</sup>)</u>	<u>Activity (Ci)</u>
<u>Barnwell</u>		
Class A	8.889E+5 (95.4%)	2.124E+4 (9.7%)
Class B	3.350E+4 (3.6%)	3.374E+4 (15.4%)
Class C	9.570E+3 (1.0%)	1.640E+5 (74.9%)
Total	9.320E+5	2.190E+5
<u>Richland</u>		
Class A	3.968E+5 (98.4%)	4.450E+3 (13.9%)
Class B	4.245E+3 (1.1%)	2.299E+4 (71.7%)
Class C	2.403E+3 (0.6%)	4.628E+3 (14.4%)
Total	4.034E+5	3.207E+4
<u>Beatty</u>		
Class A	9.250E+4 (99.0%)	2.549E+3 (29.3%)
Class B	6.881E+2 (0.7%)	3.590E+3 (41.3%)
Class C	2.276E+2 (0.2%)	2.553E+3 (29.4%)
Total	9.341E+4	8.691E+3
<u>Total</u>		
Class A	1.378E+6 (96.4%)	2.824E+4 (10.9%)
Class B	3.843E+4 (2.7%)	6.032E+4 (23.2%)
Class C	1.220E+4 (0.9%)	1.712E+5 (65.9%)
Total	1.429E+6	2.598E+5



Table 3. 1989 Gross Volume and Activity Distribution

<u>Site and Class</u>	<u>Volume (ft<sup>3</sup>)</u>	<u>Activity (Ci)</u>
<u>Barnwell</u>		
Class A	1.061E+6 (96.2%)	1.788E+4 (2.5%)
Class B	3.015E+4 (2.7%)	6.742E+4 (9.3%)
Class C	1.224E+4 (1.1%)	6.399E+5 (88.2%)
Total	1.103E+6	7.252E+5
<u>Richland</u>		
Class A	4.007E+5 (98.1%)	6.503E+3 (6.6%)
Class B	4.306E+3 (1.1%)	5.980E+4 (60.4%)
Class C	3.247E+3 (0.8%)	3.276E+4 (33.1%)
Total	4.083E+5	9.906E+4
<u>Beatty</u>		
Class A	1.137E+5 (97.8%)	4.251E+3 (10.0%)
Class B	1.496E+3 (1.3%)	3.401E+4 (79.7%)
Class C	1.029E+3 (0.9%)	4.417E+3 (10.3%)
Total	1.162E+5	4.268E+4
<u>Total</u>		
Class A	1.575E+6 (96.7%)	2.864E+4 (3.3%)
Class B	3.595E+4 (2.2%)	1.612E+5 (18.6%)
Class C	1.651E+4 (1.0%)	6.770E+5 (78.1%)
Total	1.628E+6	8.669E+5

Table 4. 1987 Gross Volume and Activity Distribution by Class and Facility

<u>Class</u>	<u>Barnwell</u>	<u>Richland</u>	<u>Beatty</u>	<u>Total</u>
<u>Class A</u>				
Vol. (ft <sup>3</sup> )	917,478 (51%)	547,863 (30%)	331,700 (18%)	1,797,019
Act. (Ci)	19,527 (75%)	4,187 (16%)	2,355 (9%)	26,068
<u>Class B</u>				
Vol. (ft <sup>3</sup> )	31,208 (80%)	7,225 (18%)	677 (2%)	39,110
Act. (Ci)	28,296 (42%)	30,227 (45%)	8,590 (13%)	67,113
<u>Class C</u>				
Vol. (ft <sup>3</sup> )	7,090 (81%)	1,584 (18%)	31 (0.4%)	8,705
Act. (Ci)	163,275 (93%)	13,070 (7%)	156 (0.09%)	176,502
<u>Total</u>				
Vol. (ft <sup>3</sup> )	955,776 (52%)	556,650 (30%)	332,408 (18%)	1,844,834
Act. (Ci)	211,098 (78%)	47,484 (18%)	11,101 (4%)	269,683

Table 5. 1988 Gross Volume and Activity Distribution by Class and Facility

<u>Class</u>	<u>Barnwell</u>	<u>Richland</u>	<u>Beatty</u>	<u>Total</u>
<u>Class A</u>				
Vol. (ft <sup>3</sup> )	888,903 (64.5%)	396,751 (28.8%)	92,496 (6.7%)	1,378,150
Act. (Ci)	21,244 (75.2%)	4,450 (15.8%)	2,549 (9.0%)	28,242
<u>Class B</u>				
Vol. (ft <sup>3</sup> )	33,501 (87.2%)	4,245 (11.0%)	688 (1.8%)	38,434
Act. (Ci)	33,743 (55.9%)	22,990 (38.1%)	3,590 (6.0%)	60,323
<u>Class C</u>				
Vol. (ft <sup>3</sup> )	9,570 (78.4%)	2,403 (19.7%)	228 (1.9%)	12,201
Act. (Ci)	164,048 (95.8%)	4,628 (2.7%)	2,553 (1.5%)	171,228
<u>Total</u>				
Vol. (ft <sup>3</sup> )	931,974 (65.2%)	403,399 (28.2%)	93,412 (6.5%)	1,428,785
Act. (Ci)	219,034 (84.3%)	32,068 (12.3%)	8,691 (3.3%)	259,793

Table 6. 1989 Gross Volume and Activity Distribution by Class and Facility

<u>Class</u>	<u>Barnwell</u>	<u>Richland</u>	<u>Beatty</u>	<u>Total</u>
<u>Class A</u>				
Vol. (ft <sup>3</sup> )	1,060,914 (67%)	400,738 (25%)	113,697 (7%)	1,575,349
Act. (Ci)	17,885 (62%)	6,503 (23%)	4,251 (15%)	28,639
<u>Class B</u>				
Vol. (ft <sup>3</sup> )	30,148 (84%)	4,306 (12%)	1,496 (4%)	35,950
Act. (Ci)	67,419 (42%)	59,804 (37%)	34,012 (21%)	161,235
<u>Class C</u>				
Vol. (ft <sup>3</sup> )	12,238 (74%)	3,247 (20%)	1,029 (6%)	16,514
Act. (Ci)	639,859 (95%)	32,755 (5%)	4,417 (0.7%)	677,032
<u>Total</u>				
Vol. (ft <sup>3</sup> )	1,103,300 (68%)	408,291 (25%)	116,222 (7%)	1,627,813
Act. (Ci)	725,164 (84%)	99,062 (11%)	42,680 (5%)	866,905

Table 7. Gross Distribution of Volume and Activity in Class A Waste

Year		Barnwell	Richland	Beatty	Total
<u>1987</u>					
AS <sup>a</sup>	Vol. (ft <sup>3</sup> )	1.339E+5	1.291E+4	1.472E+4	1.615E+5
	Act. (Ci)	1.636E+4	2.039E+2	2.837E+2	1.685E+4
AU <sup>a</sup>	Vol. (ft <sup>3</sup> )	7.836E+5	5.349E+5	3.170E+5	1.635E+6
	Act. (Ci)	3.163E+3	3.983E+3	2.071E+3	9.217E+3
A <sup>a</sup>	Vol. (ft <sup>3</sup> )	9.175E+5	5.478E+5	3.317E+5	1.797E+6
	Act. (Ci)	1.953E+4	4.187E+3	2.355E+3	2.607E+4
<u>1988</u>					
AS	Vol. (ft <sup>3</sup> )	1.273E+5	3.949E+3	1.598E+3	1.328E+5
	Act. (Ci)	1.827E+4	5.215E+2	9.7E+2	1.982E+4
AU	Vol. (ft <sup>3</sup> )	7.616E+5	3.928E+5	9.090E+4	1.245E+6
	Act. (Ci)	2.970E+3	3.928E+3	1.524E+3	8.422E+3
A	Vol. (ft <sup>3</sup> )	8.889E+5	3.968E+5	9.250E+4	1.378E+6
	Act. (Ci)	2.124E+4	4.450E+3	2.549E+3	2.824E+4
<u>1989</u>					
AS	Vol. (ft <sup>3</sup> )	8.914E+4	3.614E+2	2.025E+3	9.153E+4
	Act. (Ci)	1.110E+4	8.446E-1	1.090E+3	1.219E+4
AU	Vol. (ft <sup>3</sup> )	9.718E+5	4.004E+5	1.117E+5	1.484E+6
	Act. (Ci)	6.784E+3	6.503E+3	3.361E+3	1.645E+4
A	Vol. (ft <sup>3</sup> )	1.061E+6	4.007E+5	1.137E+5	1.575E+6
	Act. (Ci)	1.788E+4	6.503E+3	4.251E+3	2.864E+4

a. AS: Class A, stable; AU: Class A, unstable; A: Total Class A.



by processing the waste to a stable form, or by placing the waste in a disposal container or structure that provides stability after disposal.

Waste generators usually provide structural stability by either processing the waste into a stable form or by placing the waste into a high-integrity container (HIC). Although not required by Part 61, Class A wastes are also frequently disposed in a stable form. Over the three years considered, from 43 to 70 percent of the total Class A activity was disposed in a stable form. This is sometimes because of disposal facility license conditions that are more restrictive than Part 61, and sometimes because of operational convenience to a generator.

#### 4. VOLUME AND ACTIVITY DISTRIBUTIONS PER GENERAL INDUSTRY

For each of the three disposal facilities, Tables 8 through 16 summarize the distribution of waste volume and activity as a function of waste class and general category of waste generator. Five categories of waste generators are listed for each table. CNSI denotes these categories as: nuclear utilities, hospitals, colleges, government, and industry (Tables 8 through 10). USE denotes these categories in a similar manner (Tables 11 through 16). For all tables, waste volumes and activities are tracked through any waste brokers and processors back to the original generator. For example, if a nuclear utility sends waste to a processor for compaction, and then the processor sends the waste to a disposal facility, the waste is considered utility waste, rather than industry waste. (Tracking wastes through processors increases the difficulty of minimizing round-off errors during data entry, which can lead to minor computational discrepancies.)

Assuming that the categories denoted by the two operators correspond, the distribution across all disposed waste is estimated by combining the information in the nine tables. The results are in Tables 17 and 18.

Table 17 compares volumes and activities as a function of general industry and waste class. Utilities consistently generated the bulk of the waste volume and activity. For each year from 1987 through 1989, utilities generated from 52 to 57 percent of the volume and from 82 to 84 percent of the activity. Most of this activity was short-lived and was contained in Class C waste. Much of the remaining volume and activity was generated by industrial generators.

Table 18 compares volumes and gross activities as a function of general industry and disposal facility. Waste from different industries are distributed unequally among the three disposal facilities. For example, most of the waste volume and activity generated by nuclear utilities was delivered to the Barnwell facility. Depending on the year, Barnwell received from 65 to 78 percent of the utility waste volume and from 91 to 95 percent of the utility waste activity. Most of this activity was from short-lived isotopes such as Co-60. The Barnwell facility also received most of the activity generated by government generators, although not necessarily most of the volume. On the other hand, Barnwell received a small fraction of the waste generated by hospitals. Depending on the year, Barnwell received only 3 to 6 percent of the hospital waste volume and from 0.1 to 2 percent of the hospital waste activity. Most of the hospital waste volume was delivered to the Richland facility, and,

Table 8. Barnwell 1987 Volume and Activity Sorted by General Industry

<u>Class</u>	<u>Utilities</u>	<u>Hospitals</u>	<u>College or University</u>	<u>Government</u>	<u>Private Industry</u>	<u>Total</u>
<u>Class A</u>						
Vol. (ft <sup>3</sup> )	5.883E+5	9.740E+2	1.088E+4	5.935E+4	2.580E+5	9.175E+5
Act. (Ci)	1.851E+4	1.149E-1	1.207E+1	1.532E+2	8.501E+2	1.953E+4
<u>Class B</u>						
Vol. (ft <sup>3</sup> )	2.998E+4		2.630E+1	1.649E+2	1.038E+3	3.121E+4
Act. (Ci)	1.957E+4		3.736E+0	5.932E+3	2.795E+3	2.830E+4
<u>Class C</u>						
Vol. (ft <sup>3</sup> )	6.933E+3		8.200E+0		1.484E+2	7.090E+3
Act. (Ci)	1.629E+5		1.040E-1		3.301E+2	1.633E+5
<u>Total</u>						
Vol. (ft <sup>3</sup> )	6.252E+5	9.740E+2	1.091E+4	5.951E+4	2.592E+5	9.558E+5
Act. (Ci)	2.010E+5	1.149E-1	1.591E+1	6.086E+3	3.975E+3	2.111E+5

Table 9. Barnwell 1988 Volume and Activity Sorted by General Industry

<u>Class</u>	<u>Utilities</u>	<u>Hospitals</u>	<u>College or University</u>	<u>Government</u>	<u>Private Industry</u>	<u>Total</u>
<u>Class A</u>						
Vol. (ft <sup>3</sup> )	5.568E+5	7.834E+2	1.118E+4	6.771E+4	2.525E+5	8.889E+5
Act. (Ci)	1.999E+4	1.065E-1	1.376E+1	1.617E+2	1.078E+3	2.124E+4
<u>Class B</u>						
Vol. (ft <sup>3</sup> )	3.196E+4		1.160E+1	3.429E+2	1.190E+3	3.350E+4
Act. (Ci)	2.068E+4		5.391E-1	8.769E+3	4.293E+3	3.374E+4
<u>Class C</u>						
Vol. (ft <sup>3</sup> )	8.307E+3		2.210E+1	5.490E+1	1.187E+3	9.570E+3
Act. (Ci)	1.620E+5		1.583E+3	3.117E+2	1.797E+2	1.640E+5
<u>Total</u>						
Vol. (ft <sup>3</sup> )	5.970E+5	7.834E+2	1.122E+4	6.810E+4	2.548E+5	9.320E+5
Act. (Ci)	2.026E+5	1.066E-1	1.597E+3	9.243E+3	5.550E+3	2.190E+5

Table 10. Barnwell 1989 Volume and Activity Sorted by General Industry

<u>Class</u>	<u>Utilities</u>	<u>Hospitals</u>	<u>College or University</u>	<u>Government</u>	<u>Private Industry</u>	<u>Total</u>
<u>Class A</u>						
Vol. (ft <sup>3</sup> )	6.239E+5	2.063E+3	1.623E+4	8.505E+4	3.337E+5	1.061E+6
Act. (Ci)	1.639E+4	2.100E+0	2.935E-1	1.348E+2	1.332E+3	1.788E+4
<u>Class B</u>						
Vol. (ft <sup>3</sup> )	2.839E+4	5.710E+0	5.390E+1	6.236E+2	1.070E+3	3.015E+4
Act. (Ci)	2.500E+4	4.867E-1	5.482E+2	1.115E+4	3.072E+4	6.742E+4
<u>Class C</u>						
Vol. (ft <sup>3</sup> )	1.195E+4	7.000E-2	7.500E+0	6.256E+1	2.143E+2	1.224E+4
Act. (Ci)	6.394E+5	1.000E-5	6.122E+1	3.187E+2	1.045E+2	6.399E+5
<u>Total</u>						
Vol. (ft <sup>3</sup> )	6.642E+5	2.069E+3	1.629E+4	8.574E+4	3.350E+5	1.103E+6
Act. (Ci)	6.808E+5	2.587E+0	6.387E+2	1.161E+4	3.216E+4	7.252E+5

Table 11. Richland 1987 Volume and Activity Sorted by General Industry

<u>Class</u>	<u>Colleges</u>	<u>Government</u>	<u>Hospitals</u>	<u>Industry</u>	<u>Utilities</u>	<u>Total</u>
AS <sup>a</sup> Vol (ft <sup>3</sup> )	1.500E+1	1.650E+2	9.000E+1	1.128E+3	1.151E+4	1.291E+4
Act (Ci)	5.674E+0	1.268E-2	1.315E-1	5.929E-1	1.975E+2	2.039E+2
AU <sup>a</sup> Vol (ft <sup>3</sup> )	3.522E+4	1.116E+4	2.702E+4	2.104E+5	2.512E+5	5.349E+5
Act (Ci)	8.449E+1	1.049E+2	3.444E+1	2.029E+3	1.730E+3	3.983E+3
A <sup>a</sup> Vol (ft <sup>3</sup> )	3.523E+4	1.133E+4	2.711E+4	2.115E+5	2.627E+5	5.478E+5
Act (Ci)	9.017E+1	1.049E+2	3.457E+1	2.030E+3	1.927E+3	4.187E+3
B Vol (ft <sup>3</sup> )		7.567E+1	3.010E+0	5.101E+2	6.836E+3	7.225E+3
Act (Ci)		9.755E+2	4.005E-3	2.601E+4	3.238E+3	3.023E+4
C Vol (ft <sup>3</sup> )	8.651E+1	3.675E+2	1.730E+2	4.050E+2	5.519E+2	1.584E+3
Act (Ci)	3.345E-1	1.398E+0	8.452E-1	9.891E+2	1.208E+4	1.307E+4
Tot Vol (ft <sup>3</sup> )	3.532E+4	1.177E+4	2.728E+4	2.122E+5	2.701E+5	5.566E+5
Act (Ci)	9.050E+1	1.082E+3	3.542E+1	2.903E+4	1.724E+4	4.748E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 12. Richland 1988 Volume and Activity Sorted by General Industry

Class		Colleges	Government	Hospitals	Industry	Utilities	Total
AS <sup>a</sup>	Vol (ft <sup>3</sup> )	1.399E+2	3.041E+2		7.500E+0	3.497E+3	3.949E+3
	Act (Ci)	5.189E-1	4.507E+1		3.414E-1	4.755E+2	5.215E+2
AU <sup>a</sup>	Vol (ft <sup>3</sup> )	3.025E+4	1.234E+4	1.920E+4	1.599E+5	1.711E+5	3.928E+5
	Act (Ci)	1.277E+2	9.124E+1	7.585E+1	2.455E+3	1.178E+3	3.928E+3
A <sup>a</sup>	Vol (ft <sup>3</sup> )	3.039E+4	1.264E+4	1.920E+4	1.599E+5	1.746E+5	3.968E+5
	Act (Ci)	1.282E+2	1.363E+2	7.585E+1	2.456E+3	1.654E+3	4.450E+3
B	Vol (ft <sup>3</sup> )	7.500E+0	1.900E+1		2.998E+2	3.919E+3	4.245E+3
	Act (Ci)	3.555E-2	1.112E+2		2.072E+4	2.162E+3	2.299E+4
C	Vol (ft <sup>3</sup> )		1.050E+2		6.180E+1	2.225E+3	2.403E+3
	Act (Ci)		4.290E-1		4.011E+0	4.623E+3	4.628E+3
Tot	Vol (ft <sup>3</sup> )	3.040E+4	1.277E+4	1.920E+4	1.603E+5	1.808E+5	4.034E+5
	Act (Ci)	1.282E+2	2.480E+2	7.585E+1	2.318E+4	8.438E+3	3.207E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 13. Richland 1989 Volume and Activity Sorted by General Industry

Class		Colleges	Government	Hospitals	Industry	Utilities	Total
AS <sup>a</sup>	Vol (ft <sup>3</sup> )		7.500E+0	6.800E-1	2.224E+2	1.308E+2	3.614E+2
	Act (Ci)		2.221E-3	1.500E-5	7.552E-3	8.348E-1	8.446E-1
AU <sup>a</sup>	Vol (ft <sup>3</sup> )	3.933E+4	2.225E+4	2.501E+4	1.650E+5	1.488E+5	4.004E+5
	Act (Ci)	1.561E+2	2.702E+1	7.248E+1	3.052E+3	3.194E+3	6.502E+3
A <sup>a</sup>	Vol (ft <sup>3</sup> )	3.933E+4	2.225E+4	2.501E+4	1.652E+5	1.489E+5	4.007E+5
	Act (Ci)	1.561E+2	2.702E+1	7.248E+1	3.052E+3	3.195E+3	6.503E+3
B	Vol (ft <sup>3</sup> )		7.500E+0	1.500E+1	1.285E+2	4.155E+3	4.306E+3
	Act (Ci)		1.155E+1	9.623E-2	5.590E+4	3.891E+3	5.980E+4
C	Vol (ft <sup>3</sup> )	1.500E+1	1.315E+2		5.032E+2	2.597E+3	3.247E+3
	Act (Ci)	3.131E-1	5.212E-1		7.091E+1	3.268E+4	3.276E+4
Tot	Vol (ft <sup>3</sup> )	3.935E+4	2.239E+4	2.503E+4	1.658E+5	1.557E+5	4.083E+5
	Act (Ci)	1.564E+2	3.909E+1	7.257E+1	5.902E+4	3.977E+4	9.906E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 14. Beatty 1987 Volume and Activity Sorted by General Industry

	Class	Colleges	Government	Hospitals	Industry	Utilities	Total
AS <sup>a</sup>	Vol (ft <sup>3</sup> )				4.811E+2	1.424E+4	1.472E+4
	Act (Ci)				4.184E+0	2.795E+2	2.837E+2
AU <sup>a</sup>	Vol (ft <sup>3</sup> )	9.900E+2	6.125E+4		1.974E+5	5.735E+4	3.170E+5
	Act (Ci)	5.472E-1	5.293E+0		9.119E+2	1.153E+3	2.071E+3
A <sup>a</sup>	Vol (ft <sup>3</sup> )	9.900E+2	6.125E+4		1.979E+5	7.159E+4	3.317E+5
	Act (Ci)	5.472E-1	5.293E+0		9.161E+2	1.433E+3	2.355E+3
B	Vol (ft <sup>3</sup> )				2.876E+2	3.894E+2	6.770E+2
	Act (Ci)				8.390E+3	1.998E+2	8.590E+3
C	Vol (ft <sup>3</sup> )				3.122E+1		3.122E+1
	Act (Ci)				1.564E+2		1.564E+2
Tot	Vol (ft <sup>3</sup> )	9.900E+2	6.125E+4		1.982E+5	7.198E+4	3.324E+5
	Act (Ci)	5.472E-1	5.293E+0		9.463E+3	1.632E+3	1.110E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 15. Beatty 1988 Volume and Activity Sorted by General Industry

	Class	Colleges	Government	Hospitals	Industry	Utilities	Total
AS <sup>a</sup>	Vol (ft <sup>3</sup> )				2.365E+2	1.361E+3	1.598E+3
	Act (Ci)				2.428E+0	1.023E+3	1.025E+3
AU <sup>a</sup>	Vol (ft <sup>3</sup> )	2.571E+3	6.444E+3	1.067E+3	5.142E+4	2.940E+4	9.090E+4
	Act (Ci)	8.184E+0	5.123E+0	4.963E+0	2.624E+2	1.243E+3	1.524E+3
A <sup>a</sup>	Vol (ft <sup>3</sup> )	2.571E+3	6.444E+3	1.067E+3	5.166E+4	3.076E+4	9.250E+4
	Act (Ci)	8.184E+0	5.123E+0	4.963E+0	2.648E+2	2.266E+3	2.549E+3
B	Vol (ft <sup>3</sup> )		2.250E+1	4.550E+0	4.791E+2	1.820E+2	6.881E+2
	Act (Ci)		3.375E+0	4.430E-2	3.411E+3	1.753E+2	3.590E+3
C	Vol (ft <sup>3</sup> )	2.861E+1			1.990E+2		2.276E+2
	Act (Ci)	5.240E+2			2.029E+3		2.553E+3
Tot	Vol (ft <sup>3</sup> )	2.599E+3	6.467E+3	1.072E+3	5.233E+4	3.094E+4	9.341E+4
	Act (Ci)	5.322E+2	8.498E+0	5.007E+0	5.705E+3	2.441E+3	8.691E+3

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.



Table 16. Beatty 1989 Volume and Activity Sorted by General Industry

	<u>Class</u>	<u>Colleges</u>	<u>Government</u>	<u>Hospitals</u>	<u>Industry</u>	<u>Utilities</u>	<u>Total</u>
AS <sup>a</sup>	Vol (ft <sup>3</sup> )	1.168E+2	8.687E+1	2.303E+1	4.074E+2	1.391E+3	2.025E+3
	Act (Ci)	1.065E+0	1.237E+1	3.063E+0	9.215E+0	1.064E+3	1.090E+3
AU <sup>a</sup>	Vol (ft <sup>3</sup> )	9.103E+3	5.561E+3	6.981E+3	6.445E+4	2.557E+4	1.117E+5
	Act (Ci)	1.121E+2	3.310E+1	6.861E+1	5.030E+2	2.444E+3	3.161E+3
A <sup>a</sup>	Vol (ft <sup>3</sup> )	9.220E+3	5.648E+3	7.004E+3	6.486E+4	2.696E+4	1.137E+5
	Act (Ci)	1.132E+2	4.607E+1	7.167E+1	5.122E+2	3.508E+3	4.251E+3
B	Vol (ft <sup>3</sup> )	6.041E+1	5.242E+1	2.119E+1	1.097E+3	2.651E+2	1.496E+3
	Act (Ci)	5.928E+1	8.630E+2	2.107E+0	3.298E+4	1.109E+2	3.401E+4
C	Vol (ft <sup>3</sup> )	1.500E+1		1.170E+0	9.521E+2	6.040E+1	1.029E+3
	Act (Ci)	9.748E+2		5.034E-3	2.363E+3	1.079E+1	4.417E+3
Tot	Vol (ft <sup>3</sup> )	9.295E+3	5.700E+3	7.027E+3	6.691E+4	2.729E+4	1.162E+5
	Act (Ci)	1.147E+3	9.090E+2	7.378E+1	3.585E+4	4.698E+3	4.268E+4

a. AS: Class A, stable; AU: Class A, unstable; A: Total Class A.

Table 17. Total Waste Volume and Activity Sorted by General Industry

Year & Class	College or University	Government	Hospitals	Private Industry	Utilities	Total	
1987	Vol. A	4.710E+4	1.319E+5	2.808E+4	6.673E+5	9.226E+5	1.797E+6
	(ft <sup>3</sup> ) B	2.630E+1	2.406E+2	3.010E+0	1.636E+3	3.720E+4	3.911E+4
	C	9.471E+1	3.675E+2	1.730E+2	5.846E+2	7.485E+3	8.705E+3
	Tot	4.722E+4	1.325E+5	2.826E+4	6.696E+5	9.673E+5	1.845E+6
	Act. A	1.028E+2	2.633E+2	3.469E+1	3.796E+3	2.187E+4	2.607E+4
	(Ci) B	3.736E+0	6.908E+3	4.005E-3	3.720E+4	2.300E+4	6.711E+4
	C	4.385E-1	1.398E+0	8.452E-1	1.476E+3	1.750E+5	1.765E+5
	Tot	1.070E+2	7.173E+3	3.554E+1	4.247E+4	2.199E+5	2.697E+5
1988	Vol. A	4.415E+4	8.679E+4	2.106E+4	4.640E+5	7.621E+5	1.378E+6
	(ft <sup>3</sup> ) B	1.910E+1	3.844E+2	4.550E+0	1.969E+3	3.606E+4	3.843E+4
	C	5.071E+1	1.599E+2		1.447E+3	1.054E+4	1.220E+4
	Tot	4.422E+4	8.734E+4	2.106E+4	4.674E+5	8.087E+5	1.429E+6
	Act. A	1.502E+2	3.031E+2	8.092E+1	3.799E+3	2.391E+4	2.824E+4
	(Ci) B	5.747E-1	8.884E+3	4.430E-2	2.842E+4	2.302E+4	6.032E+4
	C	2.107E+3	3.121E+2		2.213E+3	1.666E+5	1.712E+5
	Tot	2.258E+3	9.499E+3	8.096E+1	3.443E+4	2.135E+5	2.598E+5
1989	Vol. A	6.478E+4	1.130E+5	3.408E+4	5.638E+5	7.998E+5	1.575E+6
	(ft <sup>3</sup> ) B	1.143E+2	6.835E+2	4.190E+1	2.296E+3	3.281E+4	3.595E+4
	C	3.750E+1	1.941E+2	1.240E+0	1.670E+3	1.461E+4	1.651E+4
	Tot	6.493E+4	1.138E+5	3.413E+4	5.677E+5	8.472E+5	1.628E+6
	Act. A	2.986E+2	2.079E+2	1.462E+2	4.897E+3	2.309E+4	2.864E+4
	(Ci) B	6.074E+2	1.203E+4	2.690E+0	1.196E+5	2.900E+4	1.612E+5
	C	1.036E+3	3.192E+2	5.044E-3	2.538E+3	6.731E+5	6.770E+5
	Tot	1.942E+3	1.255E+4	1.489E+2	1.270E+5	7.252E+5	8.669E+5

Table 18. Total Waste Volume and Activity Sorted by General Industry and Disposal Facility

Year & Class	College or University	Government	Hospitals	Private Industry	Utilities	Total	
1987 (ft <sup>3</sup> )	Vol. B <sup>a</sup>	1.091E+4	5.951E+4	9.740E+2	2.592E+5	6.252E+5	9.558E+5
	R	3.532E+4	1.177E+4	2.728E+4	2.122E+5	2.701E+5	5.566E+5
	Be	9.900E+2	6.125E+4		1.982E+5	7.198E+4	3.324E+5
	Tot	4.722E+4	1.325E+5	2.826E+4	6.696E+5	9.673E+5	1.845E+6
	Act. B	1.591E+1	6.086E+3	1.149E-1	3.975E+3	2.010E+5	2.111E+5
	(Ci) R	9.050E+1	1.082E+3	3.542E+1	2.903E+4	1.724E+4	4.748E+4
	Be	5.472E-1	5.293E+0		9.463E+3	1.632E+3	1.110E+4
Tot	1.070E+2	7.173E+3	3.554E+1	4.247E+4	2.199E+5	2.697E+5	
1988 (ft <sup>3</sup> )	Vol. B	1.122E+4	6.810E+4	7.834E+2	2.548E+5	5.970E+5	9.320E+5
	R	3.040E+4	1.277E+4	1.920E+4	1.603E+5	1.808E+5	4.034E+5
	Be	2.599E+3	6.467E+3	1.072E+3	5.233E+4	3.094E+4	9.341E+4
	Tot	4.422E+4	8.734E+4	2.106E+4	4.674E+5	8.087E+5	1.429E+6
	Act. B	1.597E+3	9.243E+3	1.066E-1	5.550E+3	2.026E+5	2.190E+5
	(Ci) R	1.282E+2	2.486E+2	7.585E+1	2.318E+4	8.438E+3	3.207E+4
	Be	5.322E+2	8.498E+0	5.007E+0	5.705E+3	2.441E+3	8.691E+3
Tot	2.258E+3	9.499E+3	8.096E+1	3.443E+4	2.135E+5	2.598E+5	
1989 (ft <sup>3</sup> )	Vol. B	1.629E+4	8.574E+4	2.069E+3	3.350E+5	6.642E+5	1.103E+6
	R	3.930E+4	2.239E+4	2.503E+4	1.658E+5	1.557E+5	4.083E+5
	Be	9.295E+3	5.700E+3	7.027E+3	6.691E+4	2.729E+4	1.162E+5
	Tot	6.493E+4	1.138E+5	3.413E+4	5.677E+5	8.472E+5	1.628E+6
	Act. B	6.387E+2	1.161E+4	2.587E+0	3.216E+4	6.808E+5	7.252E+5
	(Ci) R	1.564E+2	3.909E+1	7.257E+1	5.902E+4	3.977E+4	9.906E+4
	Be	1.147E+3	9.090E+2	7.378E+1	3.585E+4	4.698E+3	4.268E+4
Tot	1.942E+3	1.255E+4	1.489E+2	1.270E+5	7.252E+5	8.669E+5	

a. B: Barnwell; R: Richland; Be: Beatty.

except for 1989, most of the hospital waste activity as well. The Richland facility received most of the activity delivered by industrial generators, but not most of the volume.

Appendix B provides an isotopic distribution as a function of waste class and general industry for the two USE disposal facilities. Unfortunately, a similar distribution is not available for the Barnwell facility. If it were available, an instructive exercise would be to sum the isotopic distribution for each radionuclide and industry category and perform decay calculations. Eventually, most LLW activity will probably reside in waste delivered from industrial generators.

## 5. VOLUMES AND GROSS ACTIVITIES PER WASTE STREAM

This section presents the distribution of waste volume and gross activity as a function of waste stream for each of the three disposal facilities. Descriptions of the waste streams are provided in Table 19.

Waste descriptions for the Richland and Beatty facilities differ from those for the Barnwell facility. The shipment manifest for the USE facilities incorporates an index system whereby the shipper selects the description most appropriate to the waste from a short list printed on the manifest form. This list includes filter media, dewatered resin, compacted dry active waste, and so forth. Starting in 1988, this list was augmented by several waste descriptions. The CNSI manifest merely provides a space for the waste description. When the shipment manifest arrives at the Barnwell facility, CNSI staff assigns the waste to one of a short list of waste categories based on the shipper's description. These waste categories are the same for all 3 years considered in this report.

Tables 20 through 25 present data for the Barnwell facility in two ways. Tables 20, 22, and 24 present volumes and activities for each waste stream as a function of waste class. Tables 21, 23 and 25 are limited to waste volumes but provide more information about the physical form of the waste. For example, information is provided about any solidification medium used. In addition, a distinction is made between fuel cycle and non-fuel cycle waste, where fuel cycle waste consists of waste from nuclear utilities and uranium fuel fabrication plants.

Tables 26 through 31 present waste volume and activity data for the Richland facility, whereas Tables 32 through 37 present waste volume and activity data for the Beatty facility. For Tables 26 through 37, additional information about the radionuclide distributions in individual waste streams is provided in Appendix C. For waste disposed during 1989 at the Richland facility, Appendix D lists radionuclide distributions as a function of waste stream and general industry. Additional information about the use of solidification and absorbent media at the Richland and Beatty facilities is provided in Appendices E and F.

The tables indicate that activated metals consistently account for most of the activity in LLW. In 1987, activated metals comprised at least 56 percent of all LLW activity. In 1988, activated metals accounted for 58 percent of all LLW activity and only 0.1 percent of the volume. In 1989, activated metals

Table 19. Waste Descriptions Used by Disposal Facility Operators

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<u>CNSI (Barnwell):</u>	Resin Solid combustibles Solid non-combustibles Filter media (used in liquids and other than resin or cartridges) Cartridge/mechanical filters (used in liquids) Solidified liquids (includes concentrates and sludge)	Equipment, components Bulk Biological Incinerator ash Other (specify) Air filtration filters Combustibles and non- combustibles (mixed)
<u>USE (1987):</u>	Dry solid Solidified liquid Biological (not animal carcasses) Filter media Dewatered resins Solidified resins Absorbed aqueous liquid Absorbed organic liquid	Scintillation (or organic) liquid in vials in absorbent Aqueous liquid in vials in absorbent Animal carcasses in absorbent Other
<u>USE (1988 on):</u>	Evaporator bottoms Compacted dry active waste Non-compacted dry active waste Cartridge-type filter media Non-cartridge filter media Activated reactor hardware Solidified resins Dry solid Solidified liquids Sorbed aqueous liquid Sorbed non-aqueous liquid	Non-aqueous liquids in vials in sorbent Aqueous liquids in vials in sorbent Solidified chelates Solidified oil Biological (non-carcass waste) Animal carcasses in lime and sorbent Gas Other

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Table 20. Barnwell 1987 Waste Volume and Activity by Waste Stream and Class

Waste Stream	Class A	Class B	Class C	Total
<u>Volume (ft<sup>3</sup>)</u>				
Resin	1.890E+5	2.556E+4	3.993E+3	2.185E+5
Solid combustibles	1.508E+3	1.190E+2		1.627E+3
Solid noncombustibles	5.082E+4	1.869E+2	3.003E+1	5.103E+4
Filter media (a)	2.706E+4	1.375E+3	1.011E+2	2.854E+4
Cartridge/mechanical filters (b)	6.638E+3	1.806E+3	1.919E+3	1.036E+4
Solidified liquids (c)	6.168E+4	1.099E+3		6.278E+4
Equipment, components	3.849E+2	2.929E+2	9.699E+2	1.648E+3
Biological	6.515E+3			6.515E+3
Incinerator ash	3.000E+1			3.000E+1
Air filtration filters	5.844E+3			5.844E+3
Combustibles and non-combustibles (mixed)	5.680E+5	7.652E+2	7.637E+1	5.689E+5
<u>Total</u>	<u>9.175E+5</u>	<u>3.121E+4</u>	<u>7.090E+3</u>	<u>9.558E+5</u>
<u>Activity (Ci)</u>				
Resin	1.663E+4	1.717E+4	1.038E+4	4.418E+4
Solid combustibles	8.740E+0	1.300E+2		1.387E+2
Solid noncombustibles	3.009E+2	5.977E+3	7.216E+1	6.350E+3
Filter media (a)	3.114E+2	3.489E+2		6.603E+2
Cartridge/mechanical filters (b)	1.596E+2	4.456E+2	1.167E+3	1.785E+3
Solidified liquids (c)	8.064E+2	2.347E+2		1.029E+3
Equipment, components	3.510E+1	1.177E+3	1.516E+5	1.528E+5
Biological	1.357E+0			1.357E+0
Incinerator ash	7.000E-5			7.000E-5
Air filtration filters	5.685E+0			5.685E+0
Combustibles and non-combustibles (mixed)	1.266E+3	2.744E+3	2.204E+1	4.032E+3
<u>Total</u>	<u>1.953E+4</u>	<u>2.822E+4</u>	<u>1.633E+5</u>	<u>2.110E+5</u>

a. Used in liquids and other than resin or cartridges.

b. Used in liquids.

c. Includes concentrates and sludges.

Table 21. Barnwell 1987 Waste Volume (ft<sup>3</sup>) by Waste Stream and Physical Form

Waste Stream	Physical Form	Fuel Cycle	Non Fuel Cycle	Total	Waste Total
Resin	Dewatered	1.651E+5	3.979E+2	1.655E+5	2.185E+5
	Cement	5.210E+4	7.973E+2	5.290E+4	
	Delaware custom mat.		1.500E+2	1.500E+2	
Solid combustibles	Dewatered	1.190E+2		1.190E+2	1.627E+3
	Cement		3.000E+1	3.000E+1	
	Solid	5.450E+2	9.330E+2	1.478E+3	
Solid non- combustibles	Cement		3.770E+3	3.770E+3	5.103E+4
	Solid	1.216E+4	3.175E+4	4.391E+4	
	Gas		3.225E+2	3.225E+2	
	SSD&G (a)		3.032E+3	3.032E+3	
Filter media (b)	Dewatered	8.238E+3	6.310E+3	1.455E+4	2.854E+4
	Cement	3.986E+3	1.001E+4	1.399E+4	
Cartridge/mechanical filters (c)	Dewatered	9.650E+3		9.650E+3	1.036E+4
	Cement	7.135E+2		7.135E+2	
Solidified liquids (d)	Cement	5.443E+4	7.847E+3	6.228E+4	6.278E+4
	Asphalt	1.500E+2		1.500E+2	
	Delaware custom mat.		3.450E+2	3.450E+2	
Equipment, components	Solid	1.496E+3	1.515E+2	1.648E+3	1.648E+3
Biological	Solid		6.515E+3	6.515E+3	6.515E+3
Incinerator ash	Solid		3.000E+1	3.000E+1	3.000E+1
Air Filtration filters	Solid	1.423E+3	4.420E+3	5.844E+3	5.844E+4
Combustibles & non- combustibles (mixed)	Cement		3.381E+3	3.381E+3	5.689E+5
	Solid	4.028E+5	1.627E+5	5.655E+5	
	SSD&G		6.420E+0	6.420E+0	
Total		7.129E+5	2.429E+5	9.558E+5	9.558E+5

- a. Sealed sources, devices, and gauges.  
b. Used in liquids and other than resin.  
c. Used in liquids.  
d. Includes concentrates and sludges.

Table 22. Barnwell 1988 Waste Volume and Activity by Waste Stream and Class

Waste Stream	Class A	Class B	Class C	Total
<u>Volume (ft<sup>3</sup>)</u>				
Resin	1.883E+5	2.681E+4	4.751E+3	2.199E+5
Solid combustibles	4.680E+2			4.680E+2
Solid noncombustibles	4.893E+4	6.628E+2	8.124E+2	5.041E+4
Filter media (a)	1.403E+4	1.146E+3	1.460E+2	1.533E+4
Cartridge/mechanical filters (b)	7.968E+3	1.631E+3	2.225E+3	1.182E+4
Solidified liquids (c)	4.253E+4	1.222E+3	2.873E+2	4.404E+4
Equipment, components	6.468E+2	1.922E+2	5.722E+2	1.411E+3
Biological	3.944E+3			3.944E+3
Incinerator ash	5.130E+2			5.130E+2
Air filtration filters	3.911E+3			3.911E+3
Combustibles and non-combustibles (mixed)	5.776E+5	1.838E+3	7.770E+2	5.802E+5
<u>Total</u>	<u>8.889E+5</u>	<u>3.350E+4</u>	<u>9.570E+3</u>	<u>9.320E+5</u>
<u>Activity (Ci)</u>				
Resin	1.822E+4	1.684E+4	1.167E+4	4.673E+4
Solid combustibles	1.502E-1			1.502E-1
Solid noncombustibles	2.542E+2	8.882E+3	4.787E+2	9.615E+3
Filter media (a)	2.107E+2	1.838E+2	1.380E+3	1.774E+3
Cartridge/mechanical filters (b)	6.320E+2	6.590E+2	1.967E+3	3.258E+3
Solidified liquids (c)	3.479E+2	6.831E+2	1.215E+1	1.043E+3
Equipment, components	1.305E+0	2.326E+3	1.485E+5	1.508E+5
Biological	7.585E-1			7.585E-1
Incinerator ash				
Air filtration filters	1.501E+1			1.501E+1
Combustibles and non-combustibles (mixed)	1.565E+3	4.033E+3	3.010E+1	5.629E+3
<u>Total</u>	<u>2.124E+4</u>	<u>3.361E+4</u>	<u>1.640E+5</u>	<u>2.189E+5</u>

- a. Used in liquids and other than resin or cartridges.  
 b. Used in liquids.  
 c. Includes concentrates and sludges.

Table 23. Barnwell 1988 Waste Volume (ft<sup>3</sup>) by Waste Stream and Physical Form

Waste Stream	Physical Form	Non			Waste Total
		Fuel Cycle	Fuel Cycle	Total	
Resin	Dewatered	1.704E+5	8.784E+2	1.713E+5	2.199E+5
	Cement	4.754E+4	1.095E+3	4.863E+4	
Solid combustibles	Solid		4.680E+2	4.680E+2	4.680E+2
Solid non- combustibles	Cement	6.986E+2	3.407E+3	4.105E+3	5.041E+4
	Solid	1.774E+4	2.475E+4	4.249E+4	
	Gas		6.982E+2	6.982E+2	
	SSD&G (a)	5.732E+2	2.541E+3	3.114E+3	
Filter media (b)	Dewatered	6.077E+3	5.120E+3	1.120E+4	1.533E+4
	Cement	2.159E+3	1.955E+3	4.114E+3	
	Delaware cus- tom mat.	1.560E+1		1.560E+1	
Cartridge/mechanical filters (c)	Dewatered	1.026E+4	1.852E+2	1.045E+4	1.182E+4
	Cement	1.344E+3	3.100E+2	1.375E+3	
Solidified liquids (d)	Cement	3.831E+4	5.274E+3	4.358E+4	4.404E+4
	Asphalt	1.575E+2		1.575E+2	
	Delaware cus- tom mat.		3.000E+2	3.000E+2	
Equipment, compo- nents	Solid	1.013E+3	3.986E+2	1.411E+3	1.411E+3
Biological	Solid		3.944E+3	3.944E+3	3.944E+3
Incinerator ash	Solid	5.130E+2		5.130E+2	5.130E+2
Air Filtration filters	Solid	2.337E+3	1.573E+3	3.911E+3	3.911E+3
Combustibles & non- combustibles (mixed)	Cement	7.950E+1	8.200E+0	8.770E+1	5.802E+5
	Solid	4.044E+5	1.757E+5	5.801E+5	
	Gas	6.450E+1		6.450E+1	
Total		7.036E+5	2.283E+5	9.320E+5	9.320E+5

- a. Sealed sources, devices, and gauges.  
b. Used in liquids and other than resin.  
c. Used in liquids.  
d. Includes concentrates and sludges.

Table 24. Barnwell 1989 Waste Volume and Activity by Waste Stream and Class

<u>Waste Stream</u>	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
<u>Volume (ft<sup>3</sup>)</u>				
Resin	1.676E+5	2.385E+4	5.649E+3	1.971E+5
Solid combustibles	1.004E+3			1.004E+3
Solid noncombustibles	1.092E+5	7.458E+2	2.538E+2	1.102E+5
Filter media (a)	2.137E+4	8.035E+2	8.820E+1	2.226E+4
Cartridge/mechanical filters (b)	4.404E+3	1.483E+3	2.646E+3	8.533E+3
Solidified liquids (c)	3.521E+4	2.356E+3	5.944E+2	3.816E+4
Equipment, components	2.419E+3	1.460E+1	2.357E+3	4.791E+3
Biological	7.471E+3			7.471E+3
Other		2.800E+1		2.800E+1
Air filtration filters	1.795E+4		1.149E+2	1.807E+4
Combustibles and non- combustibles (mixed)	6.943E+5	8.647E+2	5.353E+2	6.957E+5
<u>Total</u>	<u>1.061E+6</u>	<u>3.015E+4</u>	<u>1.224E+4</u>	<u>1.103E+6</u>
<u>Activity (Ci)</u>				
Resin	1.307E+4	2.386E+4	1.585E+4	5.278E+4
solid combustibles	5.777E+0			5.777E+0
Solid noncombustibles	3.231E+2	3.726E+4	3.384E+2	3.792E+4
Filter media (a)	1.050E+3	2.145E+2	5.427E+1	1.318E+3
Cartridge/mechanical filters (b)	4.153E+2	4.364E+2	1.844E+3	2.696E+3
Solidified liquids (c)	5.296E+2	5.519E+2	4.324E+3	5.405E+3
Equipment, components	5.747E+2	8.214E+1	6.173E+5	6.180E+5
Biological	1.276E+1			1.276E+1
Other		4.622E+2		4.622E+2
Air filtration filters	1.831E+1		1.190E+1	3.021E+1
Combustibles and non- combustibles (mixed)	1.883E+3	4.549E+3	9.712E+1	6.529E+3
<u>Total</u>	<u>1.788E+4</u>	<u>6.742E+4</u>	<u>6.399E+5</u>	<u>7.252E+5</u>

- a. Used in liquids and other than resin or cartridges.  
 b. Used in liquids.  
 c. Includes concentrates and sludges.



Table 25. Barnwell 1989 Waste Volume (ft<sup>3</sup>) by Waste Stream and Physical Form

Waste Stream	Physical Form	Non			Waste Total
		Fuel Cycle	Fuel Cycle	Total	
Resin	Dewatered	1.725E+5	8.588E+2	1.734E+5	1.971E+5
	Cement	2.196E+4	8.287E+2	2.278E+4	
	Asphalt	9.075E+2		9.075E+2	
Solid combustibles	Dewatered		1.807E+2	1.807E+2	1.004E+3
	Cement	1.620E+2	1.575E+2	3.195E+2	
	Solid	3.070E+1	4.726E+2	5.033E+2	
Solid non-combustibles	Dewatered	3.750E+1	1.820E+2	2.195E+2	1.102E+5
	Cement	3.301E+2	5.411E+3	5.741E+3	
	Solid	4.125E+4	5.999E+4	1.012E+5	
	Gas		4.620E+0	4.620E+0	
	SSD&G (a)	1.147E+2	2.843E+3	2.957E+3	
Filter media (b)	Dewatered	6.964E+3	6.735E+3	1.370E+4	2.226E+4
	Cement	2.627E+3	5.181E+3	7.809E+3	
	Dow media	3.750E+1		3.750E+1	
	Asphalt	7.200E+2		7.200E+2	
Cartridge/mechanical filters (c)	Dewatered	7.697E+3	4.259E+2	8.123E+3	8.533E+3
	Cement	1.006E+2	3.092E+2	4.098E+2	
Solidified liquids (d)	Dewatered	1.590E+1		1.590E+1	3.816E+4
	Cement	2.805E+4	9.326E+3	3.737E+4	
	Dow media	6.750E+1		6.750E+1	
	Asphalt	4.725E+2		4.725E+2	
	Solid		2.280E+2	2.280E+2	
Equipment, components	Cement	3.830E+1	7.500E+0	4.580E+1	4.791E+3
	Solid	4.346E+3	3.986E+2	4.745E+3	
Biological	Solid	8.250E+1	7.389E+3	7.471E+3	7.471E+3
Other	Gas		2.800E+1	2.800E+1	2.800E+1
Air Filtration filters	Cement	8.270E+1	2.120E+2	2.947E+2	1.807E+4
	Solid	9.939E+3	7.832E+3	1.777E+4	
Combustibles & non-combustibles (mixed)	Cement	2.146E+2	1.500E+1	2.296E+2	6.957E+5
	Solid	4.547E+5	2.403E+5	6.949E+5	
	Gas	2.040E+2		2.040E+2	
	SSD&G		3.625E+2	3.625E+2	
Total		7.536E+5	3.497E+5	1.103E+6	1.103E+6

a. Sealed sources, devices, and gauges.

b. Used in liquids and other than resin.

c. Used in liquids.

d. Includes concentrates and sludges.

Table 26. Richland 1987 Waste Volume (ft<sup>3</sup>) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Animal Carcasses in Lime & Sorbent		1.203E+4	1.203E+4			1.203E+4
Aqueous Liquids in Vials in Sorbent		4.700E+3	4.700E+3			4.700E+3
Biological (Non- Carcass waste)		2.813E+2	2.813E+2			2.813E+2
Compacted Dry Active Waste		5.700E+2	5.700E+2			5.700E+2
Dewatered Resins	1.308E+2	3.544E+4	3.557E+4	2.810E+3	1.320E+2	3.851E+4
Dry Solid	8.524E+1	4.177E+5	4.178E+5	1.006E+3	1.407E+3	4.202E+5
Filter Media	1.121E+3	1.197E+3	2.317E+3	1.148E+3		3.465E+3
Non-Compacted Dry Active Waste		2.075E+2	2.075E+2			2.075E+2
Other	7.000E-1	7.656E+3	7.657E+3			7.657E+3
Solidified Liquids	1.062E+4	1.645E+4	2.707E+4	1.725E+2	4.500E+1	2.729E+4
Solidified Resins	9.530E+2	4.143E+3	5.096E+3	2.089E+3		7.184E+3
Sorbed Aqueous Liquids		2.967E+4	2.967E+4			2.967E+4
Sorbed Non-Aqueous Liquids		4.857E+3	4.857E+3			4.857E+3
Vials		<u>1.500E+1</u>	<u>1.500E+1</u>			<u>1.500E+1</u>
	<u>1.291E+4</u>	<u>5.349E+5</u>	<u>5.478E+5</u>	<u>7.225E+3</u>	<u>1.584E+3</u>	<u>5.566E+5</u>

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 27. Richland 1987 Waste Activity (Ci) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Animal Carcasses in Lime & Sorbent		1.527E+1	1.527E+1			1.527E+1
Aqueous Liquids in Vials in Sorbent		9.921E+0	9.921E+0			9.921E+0
Biological (Non- Carcass waste)		2.606E-2	2.606E-2			2.606E-2
Compacted Dry Active Waste		6.264E-1	6.264E-1			6.264E-1
Dewatered Resins	8.616E+1	1.292E+3	1.378E+3	2.241E+3	3.829E+2	4.002E+3
Dry Solid	5.764E+0	1.580E+3	1.586E+3	5.852E+3	1.183E+4	1.927E+4
Filter Media	4.861E+1	1.218E+1	6.079E+1	2.847E+2		3.455E+2
Non-Compacted Dry Active Waste		6.478E+0	6.478E+0			6.478E+0
Other	2.000E-2	5.279E+0	5.299E+0			5.299E+0
Solidified Liquids	1.243E+1	7.951E+2	8.075E+2	2.118E+4	8.568E+2	2.284E+4
Solidified Resins	5.091E+1	2.318E+1	7.409E+1	6.740E+2		7.481E+2
Sorbed Aqueous Liquids		2.412E+2	2.412E+2			2.412E+2
Sorbed Non-Aqueous Liquids		1.764E+0	1.764E+0			1.764E+0
Vials		1.187E-2	1.187E-2			1.187E-2
	2.039E+2	3.983E+3	4.187E+3	3.023E+4	1.307E+4	4.748E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 28. Richland 1988 Waste Volume (ft<sup>3</sup>) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Activated Reactor Hardware	1.399E+2	1.413E+2	2.812E+2			2.812E+2
Animal Carcasses in Lime & Sorbent		1.152E+4	1.152E+4			1.152E+4
Aqueous Liquids in Vials in Sorbent		5.051E+3	5.051E+3			5.051E+3
Biological (Non-Carcass waste)		1.183E+3	1.183E+3			1.183E+3
Cartridge-Type Filter Media	4.678E+2	8.786E+2	1.346E+3	3.049E+2	2.548E+2	1.906E+3
Compacted Dry Active Waste	8.800E+1	8.483E+4	8.492E+4		1.760E+2	8.509E+4
Dewatered Resins	5.234E+2	2.973E+4	3.026E+4	2.349E+3	1.355E+3	3.396E+4
Dry Solid	8.700E+0	1.567E+5	1.567E+5	4.773E+2	1.943E+2	1.574E+5
Evaporator Bottoms		1.584E+4	1.584E+4			1.584E+4
Gas		1.875E+2	1.875E+2			1.875E+2
Non-Aqueous Liquids in Vials in Sorbent		7.500E+0	7.500E+0			7.500E+0
Non-Cartridge Filter Media		2.041E+3	2.041E+3			2.041E+3
Non-Compacted Dry Active Waste		2.570E+4	2.570E+4	6.449E+2	4.000E+2	2.674E+4
Other	4.000E+0	1.439E+3	1.443E+3	7.500E+0	2.250E+1	1.473E+3
Solidified Chelates		4.920E+3	4.920E+3			4.920E+3
Solidified Liquids	4.100E+0	7.154E+3	7.158E+3	1.725E+2		7.330E+3
Solidified Oil	2.181E+3	5.919E+3	8.100E+3			8.100E+3
Solidified Resins	5.317E+2	7.512E+3	8.044E+3	2.890E+2		8.333E+3
Sorbed Aqueous Liquids		3.079E+4	3.079E+4			3.079E+4
Sorbed Non-Aqueous Liquids		1.278E+3	1.278E+3			1.278E+3
	3.949E+3	3.928E+5	3.968E+5	4.245E+3	2.403E+3	4.034E+5

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 29. Richland 1988 Waste Activity (Ci) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Activated Reactor Hardware	5.189E-1	7.469E+0	7.988E+0			7.988E+0
Animal Carcasses in Lime & Sorbent		4.251E+1	4.251E+1			4.251E+1
Aqueous Liquids in Vials in Sorbent		1.120E+1	1.120E+1			1.120E+1
Biological (Non-Carcass waste)		6.872E+0	6.872E+0			6.872E+0
Cartridge-Type Filter Media	8.777E+1	1.085E+2	1.963E+2	3.085E+2	1.556E+2	6.603E+2
Compacted Dry Active Waste	2.955E-2	2.198E+2	2.198E+2		4.731E+0	2.246E+2
Dewatered Resins	2.125E+2	9.464E+2	1.159E+3	1.303E+3	4.297E+3	6.758E+3
Dry Solid	5.914E-1	1.783E+3	1.784E+3	3.772E+3	1.547E+2	5.711E+3
Evaporator Bottoms		4.233E+1	4.233E+1			4.233E+1
Gas		6.310E-2	6.310E-2			6.310E-2
Non-Aqueous Liquids in Vials in Sorbent		1.518E-2	1.518E-2			1.518E-2
Non-Cartridge Filter Media		3.200E+1	3.200E+1			3.200E+1
Non-Compacted Dry Active Waste		7.036E+1	7.036E+1	1.154E+2	1.551E+1	2.013E+2
Other	4.880E-4	9.813E+0	9.813E+0	9.634E-1	1.464E-1	1.092E+1
Solidified Chelates		5.350E-1	5.350E-1			5.350E-1
Solidified Liquids	4.530E-4	3.248E+2	3.248E+2	1.732E+4		1.764E+4
Solidified Oil	6.373E-1	2.096E+0	2.733E+0			2.733E+0
Solidified Resins	2.194E+2	4.640E+1	2.658E+2	1.755E+2		4.413E+2
Sorbed Aqueous Liquids		2.739E+2	2.739E+2			2.793E+2
Sorbed Non-Aqueous Liquids		2.447E-1	2.447E-1			2.447E-1
	5.215E+2	3.928E+3	4.450E+3	2.299E+4	4.628E+3	3.207E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.



Table 30. Richland 1989 Waste Volume (ft<sup>3</sup>) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Activated Reactor Hardware		9.200E+1	9.200E+1		2.620E+1	1.182E+2
Animal Carcasses in Lime & Sorbent		1.397E+4	1.397E+4			1.397E+4
Aqueous Liquids in Vials in Sorbent		4.440E+3	4.440E+3			4.440E+3
Biological (Non-Carcass waste)		1.907E+3	1.907E+3			1.907E+3
Cartridge-Type Filter Media		1.461E+3	1.461E+3	9.980E+1	7.699E+2	2.330E+3
Compacted Dry Active Waste		7.752E+4	7.752E+4		1.308E+2	7.765E+4
Dewatered Resins		2.772E+4	2.772E+4	3.134E+3	1.120E+3	3.198E+4
Dry Solid	2.318E+1	1.506E+5	1.507E+5	2.460E+2	1.133E+3	1.520E+5
Evaporator Bottoms		1.618E+4	1.618E+4			1.618E+4
Gas		3.675E+2	3.675E+2			3.675E+2
Non-Aqueous Liquids in Vials in Sorbent		1.151E+1	1.151E+1			1.151E+1
Non-Cartridge Filter Media		3.336E+3	3.336E+3	1.820E+2		3.518E+3
Non-Compacted Dry Active Waste		3.089E+4	3.089E+4		5.134E+1	3.094E+4
Other		1.507E+2	1.507E+2			1.507E+2
Solidified Chelates		3.088E+3	3.088E+3			3.088E+3
Solidified Liquids		7.393E+3	7.393E+3	1.500E+1	1.500E+1	7.423E+3
Solidified Oil	2.074E+2	1.010E+3	1.031E+4			1.031E+4
Solidified Resins		3.426E+3	3.426E+3	6.291E+2		4.055E+3
Sorbed Aqueous Liquids		4.734E+4	4.734E+4			4.734E+4
Sorbed Non-Aqueous Liquids	1.308E+2	3.490E+2	4.798E+2			4.798E+2
	3.614E+2	4.004E+5	4.007E+5	4.306E+3	3.247E+3	4.083E+5

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 21. Richland 1989 Waste Activity (Ci) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Activated Reactor Hardware		3.911E-1	3.911E-1		2.221E+4	2.221E+4
Animal Carcasses in Lime & Sorbent		3.703E+1	3.703E+1			3.703E+1
Aqueous Liquids in Vials in Sorbent		2.106E+1	2.106E+1			2.106E+1
Biological (Non-Carcass waste)		2.293E+0	2.293E+0			2.293E+0
Cartridge-Type Filter Media		4.949E+1	4.949E+1	1.062E+2	1.795E+2	3.352E+2
Compacted Dry Active Waste		2.532E+2	2.532E+2		1.068E+3	1.321E+3
Dewatered Resins		9.185E+2	9.185E+2	3.064E+3	8.979E+3	1.296E+4
Dry Solid	9.786E-3	2.285E+3	2.285E+3	5.439E+4	2.877E+2	5.696E+4
Evaporator Bottoms		4.986E+1	4.986E+1			4.986E+1
Gas		1.503E-1	1.503E-1			1.503E-1
Non-Aqueous Liquids in Vials in Sorbent		3.020E-3	3.020E-3			3.020E-3
Non-Cartridge Filter Media		1.479E+3	1.479E+3	2.178E+1		1.502E+3
Non-Compacted Dry Active Waste		2.828E+1	2.828E+1		2.467E+1	5.295E+1
Other		6.354E+1	6.354E+1			6.354E+1
Solidified Chelates		4.423E+1	4.423E+1			4.423E+1
Solidified Liquids		8.422E+2	8.422E+2	1.550E+3	1.953E+0	2.394E+3
Solidified Oil	2.000E-6	4.770E+0	4.770E+0			4.770E+0
Solidified Resins		9.523E+0	9.523E+0	6.699E+2		6.795E+2
Sorbed Aqueous Liquids		4.130E+2	4.130E+2			4.130E+2
Sorbed Non-Aqueous Liquids	8.348E-1	1.817E-2	3.530E-1			8.530E-1
	8.446E-1	6.502E+3	6.503E+3	5.980E+4	3.276E+4	9.906E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 32. Beatty 1987 Waste Volume (ft<sup>3</sup>) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Animal Carcasses in Lime & Sorbent		1.602E+3	1.602E+3			1.602E+3
Aqueous Liquids in Vials in Sorbent		2.250E+1	2.250E+1			2.250E+1
Biological (Non- Carcass waste)		1.828E+2	1.828E+2			1.828E+2
Compacted Dry Active Waste		5.431E+2	5.431E+2			5.431E+2
Dewatered Resins		2.354E+3	2.354E+3			2.354E+3
Dry Solid	4.436E+2	2.818E+5	2.823E+5	2.876E+2	3.122E+1	2.826E+5
Filter Media	4.990E+1	8.250E+1	1.324E+2	4.990E+1		1.823E+2
Gas		2.250E+1	2.250E+1			2.250E+1
Other		6.876E+2	6.876E+2			6.876E+2
Solidified Liquids	1.325E+4	2.253E+4	3.578E+4			3.578E+4
Solidified Resins	9.845E+2	6.052E+3	7.036E+3	3.395E+2		7.376E+3
Sorbed Aqueous Liquids		9.721E+2	9.721E+2			9.721E+2
Vials		1.158E+2	1.158E+2			1.158E+2
	1.472E+4	3.170E+5	3.317E+5	6.770E+2	3.122E+1	3.324E+5

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 33. Beatty 1987 Waste Activity (Ci) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Animal Carcasses in Lime & Sorbent		7.931E-1	7.931E-1			7.931E-1
Aqueous Liquids in Vials in Sorbent		6.011E-3	6.011E-3			6.011E-3
Biological (Non- Carcass waste)		5.859E-3	5.859E-3			5.859E-3
Compacted Dry Active Waste		2.013E+0	2.013E+0			2.013E+0
Dewatered Resins		8.871E-1	8.871E-1			8.871E-1
Dry Solid	4.151E+0	1.029E+3	1.033E+3	8.390E+3	1.564E+2	9.580E+3
Filter Media	1.533E+0	6.813E-1	2.214E+0	4.435E+0		6.649E+0
Gas		4.051E-3	4.051E-3			4.051E-3
Other		1.239E+0	1.239E+0			1.239E+0
Solidified Liquids	7.681E+0	5.952E+2	6.029E+2			6.029E+2
Solidified Resins	2.704E+2	4.369E+2	7.072E+2	1.954E+2		9.026E+2
Sorbed Aqueous Liquids		1.743E+0	1.743E+0			1.743E+0
Vials		2.352E+0	2.352E+0			2.352E+0
	2.837E+2	2.071E+3	2.355E+3	8.590E+3	1.564E+2	1.110E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 34. Beatty 1988 Waste Volume (ft<sup>3</sup>) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Animal Carcasses in Lime & Sorbent		9.080E+2	9.080E+2			9.080E+2
Aqueous Liquids in Vials in Sorbent		6.000E+1	6.000E+1			6.000E+1
Biological (Non- Carcass waste)		7.500E+1	7.500E+1			7.500E+1
Cartridge-Type Filter Media		1.125E+2	1.125E+2			1.125E+2
Compacted Dry Active Waste	3.000E+1	3.733E+4	3.736E+4		1.150E+1	3.737E+4
Dewatered Resins		1.514E+3	1.514E+3			1.514E+3
Dry Solid	2.365E+2	2.290E+4	2.314E+4	4.041E+2	2.086E+2	2.375E+4
Evaporator Bottoms		9.528E+3	9.528E+3			9.528E+3
Gas		2.183E+1	2.183E+1	8.302E+1		1.049E+2
Non-Cartridge Fil- ter Media	4.173E+2	3.682E+2	7.855E+2			7.855E+2
Non-Compacted Dry Active Waste		7.448E+3	7.448E+3	1.500E+1		7.463E+3
Other		8.020E+1	8.020E+1	4.000E+0		8.420E+1
Solidified Liquids	2.061E+2	1.362E+3	1.568E+3		7.500E+0	1.575E+3
Solidified Oil		6.809E+3	6.809E+3			6.809E+3
Solidified Resins	7.076E+2	1.051E+3	1.758E+3	1.820E+2		1.940E+3
Sorbed Aqueous Liquids		1.162E+3	1.162E+3			1.162E+3
Sorbed Non-Aqueous Liquids		1.725E+2	1.725E+2			1.725E+2
	1.598E+3	9.090E+4	9.250E+4	6.881E+2	2.276E+2	9.341E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.



Table 35. Beatty 1988 Waste Activity (Ci) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Animal Carcasses in Lime & Sorbent		3.187E-1	3.187E-1			3.187E-1
Aqueous Liquids in Vials in Sorbent		7.826E-2	7.826E-2			7.826E-2
Biological (Non- Carcass waste)		4.580E+0	4.580E+0			4.580E+0
Cartridge-Type Filter Media		1.573E-1	1.573E-1			1.573E-1
Compacted Dry Active Waste	5.670E-1	1.210E+2	1.216E+2		2.295E+2	3.511E+2
Dewatered Resins		1.487E+1	1.487E+1			1.487E+1
Dry Solid	2.428E+0	7.987E+1	8.230E+1	2.264E+3	2.322E+3	4.668E+3
Evaporator Bottoms		8.309E+2	8.309E+2			8.309E+2
Gas		6.523E+1	6.523E+1	1.149E+3		1.214E+3
Non-Cartridge Fil- ter Media	3.856E+2	8.941E+1	4.750E+2			4.750E+2
Non-Compacted Dry Active Waste		8.856E+0	8.856E+0	1.375E+0		1.023E+1
Other		1.253E+1	1.253E+1	8.000E-2		1.261E+1
Solidified Liquids	6.322E-2	1.737E+2	1.738E+2		1.650E+0	1.754E+2
Solidified Oil		1.709E+0	1.709E+0			1.709E+0
Solidified Resins	6.364E+2	1.182E+2	7.546E+2	1.753E+2		9.299E+2
Sorbed Aqueous Liquids		1.989E+0	1.989E+0			1.989E+0
Sorbed Non- Aqueous Liquids		1.797E-1	1.797E-1			1.797E-1
	1.025E+3	1.524E+3	2.549E+3	3.590E+3	2.553E+3	8.691E+3

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 36. Beatty 1989 Waste Volume (ft<sup>3</sup>) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Activated Reactor Hardware					6.040E+1	6.040E+1
Animal Carcasses in Lime & Sorbent		2.442E+3	2.442E+3			2.442E+3
Aqueous Liquids in Vials in Sorbent		3.000E+1	3.000E+1			3.000E+1
Biological (Non-Carcass waste)		1.050E+2	1.050E+2			1.050E+2
Cartridge-Type Filter Media		1.031E+3	1.031E+3			1.031E+3
Compacted Dry Active Waste	2.660E+1	2.837E+4	2.840E+4			2.840E+4
Dewatered Resins		1.547E+2	1.547E+2			1.547E+2
Dry Solid	4.301E+2	5.170E+4	5.213E+4	1.286E+3	9.233E+2	5.434E+4
Evaporator Bottoms		7.273E+3	7.273E+3			7.273E+3
Gas		2.171E+1	2.171E+1			2.171E+1
Non-Aqueous Liquids in Vials in Sorbent		4.010E+0	4.010E+0			4.010E+0
Non-Cartridge Filter Media	1.391E+3	2.087E+3	3.478E+3			3.478E+3
Non-Compacted Dry Active Waste	7.500E+0	9.089E+3	9.096E+3	2.250E+1		9.119E+3
Other		2.102E+2	2.102E+2			2.102E+2
Solidified Liquids	1.508E+2	5.555E+2	7.063E+2	3.750E+1	4.500E+1	7.888E+2
Solidified Oil		5.415E+3	5.415E+3			5.415E+3
Solidified Resins	1.910E+1	8.385E+2	8.576E+2	1.500E+2		1.008E+3
Sorbed Aqueous Liquids		2.346E+3	2.346E+3			2.346E+3
	2.025E+3	1.117E+5	1.137E+5	1.496E+3	1.029E+3	1.162E+5

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

Table 37. Beatty 1989 Waste Activity (Ci) by Waste Stream and Class

Waste Description	Class AS <sup>a</sup>	Class AU <sup>a</sup>	Class A <sup>a</sup>	Class B	Class C	Total
Activated Reactor Hardware					1.079E+3	1.079E+3
Animal Carcasses in Lime & Sorbent		1.813E+0	1.813E+0			1.813E+0
Aqueous Liquids in Vials in Sorbent		1.233E-1	1.233E-1			1.233E-1
Biological (Non-Carcass waste)		3.270E+1	3.270E+1			3.270E+1
Cartridge-Type Filter Media		4.454E+1	4.454E+1			4.454E+1
Compacted Dry Active Waste	5.724E+0	3.353E+2	3.410E+2			3.410E+2
Dewatered Resins		7.475E+1	7.475E+1			7.475E+1
Dry Solid	7.098E+0	3.667E+2	3.738E+2	3.342E+4	2.832E+3	3.663E+4
Evaporator Bottoms		1.042E+3	1.042E+3			1.042E+3
Gas		2.866E+0	2.866E+0			2.866E+0
Non-Aqueous Liquids in Vials in Sorbent		2.620E-4	2.620E-4			2.620E-4
Non-Cartridge Filter Media	1.064E+3	1.005E+3	2.068E+3			2.068E+3
Non-Compacted Dry Active Waste	2.000E-1	8.776E+0	8.976E+0	3.973E+0		1.295E+1
Other		1.047E+1	1.047E+1			1.047E+1
Solidified Liquids	1.328E+1	3.572E+0	1.686E+1	4.890E+2	5.059E+2	1.012E+3
Solidified Oil		2.156E+0	2.156E+0			2.156E+0
Solidified Resins	9.711E-3	2.605E+2	2.606E+2	9.793E+1		3.585E+2
Sorbed Aqueous Liquids		2.751E+0	2.751E+0			2.751E+0
	1.090E+3	3.161E+3	4.251E+3	3.401E+4	4.417E+3	4.268E+4

a. AS: Class A, stable; AU: Class A, unstable; A: total Class A.

accounted for 74 percent of all LLW activity and only 0.3 percent of the volume. Most of this activity consists of short-lived radionuclides such as Co-60 or Fe-55. (For 1987, activated metal information is readily available only for the Barnwell facility. During this year, "equipment and components" comprised 72 percent of the activity delivered to Barnwell and only 0.2 percent of the volume. Activated metals were not specifically identified on USE's 1987 manifests, although in its computer system USE tracked the activity of Ni-63 in activated metals. This activity totaled only 167.6 curies, all delivered in Class C waste to Richland.)

The tables also indicate that wastes accounting for much of the volume and activity are described in only general terms. For such wastes, it is more difficult to estimate the propensity for release of radioactivity to the environment through mechanisms such as leaching by water. During 1987, for example, 75 percent of the waste volume and 41 percent of the waste activity delivered to the Richland facility was described as a "dry solid." During this year, 85 percent of the volume delivered to Beatty waste was described as a dry solid, as was 86 percent of the activity. During 1989, 37 percent of the volume and 58 percent of the activity delivered to Richland was described as a dry solid, as was 47 percent of the volume and 86 percent of the activity delivered to Beatty.

## 6. RADIONUCLIDES IN LLW IN SIGNIFICANT QUANTITIES

Tables 38 through 40 list, in terms of activity, the most significant radionuclides in LLW, which for these tables is assumed to be those radionuclides in quantities of at least 100 curies. The tables represent the total activity disposed in all three disposal facilities. Depending on the year, the listed radionuclides represent from 99.6 to 99.9 percent of all LLW activity.

Each year, most of the activity in LLW is contributed by only a handful of radionuclides. Cobalt-60 and Fe-55 accounted for 55 to 76 percent of all activity. These two radionuclides, plus tritium and Mn-54, accounted for 77 to 90 percent of all LLW activity. Eight radionuclides consistently accounted for over 90 percent of the activity: Co-58, Co-60, Cs-137, Fe-55, H-3, Mn-54, Ni-63, and Zn-65. In fact, these radionuclides contributed 95 percent of the activity in 1987, 91 percent in 1988, and 97 percent in 1989.

## 7. DISTRIBUTION OF LONG-LIVED RADIONUCLIDES

Tables 41 through 43 present, by year, the distribution of long-lived radionuclides over the three Part 61 waste classes, where a long-lived radionuclide is taken to be one having a half-life of about 100 years.

The concept of a long-lived radionuclide may vary depending upon the context in which a radionuclide is considered. For example, one might use one definition for "long-lived" if one were storing waste from a medical diagnostic procedure for decay pending disposal as ordinary trash. One might use another definition if one were considering decay of LLW after it had been delivered to a disposal facility.

Table 38. 1987 Radionuclides in Quantities Exceeding 100 Curies

Nuclide	Half-Life (Years)	Activity (Ci)			Total
		Class A	Class B	Class C	
C-14	5.73E+3	1.603E+2	1.175E+1	6.372E+1	2.357E+2
Ce-144	7.80E-1	1.914E+1	4.438E+2	4.859E+0	4.678E+2
Co-58	1.94E-1	1.048E+3	2.878E+3	4.788E+3	8.714E+3
Co-60	5.27E+0	4.572E+3	6.926E+3	6.658E+4	7.808E+4
Cr-51	7.59E-2	2.761E+3	1.307E+3	9.655E+1	4.165E+3
Cs-134	2.06E+0	2.914E+2	1.692E+3	1.548E+3	3.531E+3
Cs-137	3.02E+1	7.497E+2	3.517E+3	2.859E+3	7.125E+3
Fe-55	2.69E+0	5.757E+3	3.659E+3	8.235E+4	9.176E+4
Fe-59	1.22E-1	1.440E+2	4.586E+1	8.971E+0	1.988E+2
H-3	1.23E+1	2.783E+3	4.001E+4	1.774E+3	4.456E+4
I-131	2.20E-2	9.587E+1	1.033E+2	2.201E+2	4.193E+2
Mn-54	8.55E-1	2.027E+3	1.055E+3	7.690E+3	1.077E+4
Nb-95	9.59E-2	1.352E+2	5.404E+2	3.237E+1	7.079E+2
Ni-63	1.00E+2	3.289E+2	1.273E+3	8.011E+3	9.613E+3
Pm-147	2.62E+0	3.403E+1	1.023E+2	5.595E-1	1.369E+2
Sb-124	1.65E-1	9.889E+1	6.735E+1	1.005E-1	1.663E+2
Sb-125	2.70E+0	4.748E+1	1.801E+2	2.586E+1	2.535E+2
Sr-89	1.39E-1	7.916E+0	1.861E+2	3.147E+0	1.971E+2
Sr-90	2.88E+1	2.396E+1	1.054E+2	1.820E+2	3.114E+2
Th-232	1.41E+10	4.094E+2	1.000E-5		4.094E+2
U-238	4.47E+9	3.256E+2	3.256E-3	7.858E-3	3.256E+2
U-DEP <sup>a</sup>	-	1.484E+2			1.484E+2
Y-91	1.60E-1	6.270E+0	2.797E+2		2.860E+2
Zn-65	6.69E-1	3.534E+3	2.075E+3	1.079E+2	5.717E+3
Zr-95	1.75E-1	8.621E+1	2.936E+2	1.753E+1	3.973E+2
Total		2.559E+4	6.675E+4	1.764E+5	2.687E+5
All nuclides		2.607E+4	6.711E+4	1.765E+5	2.697E+5

a. U-DEP: depleted uranium.



Table 39. 1988 Radionuclides in Quantities Exceeding 100 Curies

Nuclide	Half-Life (Years)	Activity (Ci)			Total
		Class A	Class B	Class C	
Ag-110m	6.91E-1	3.702E+1	7.605E+1	3.694E+3	3.807E+3
C-14	5.73E+3	1.337E+2	2.338E+1	3.190E+1	1.890E+2
Ce-141	8.90E-2	1.912E+0	1.116E+2	6.746E-2	1.135E+2
Ce-144	7.80E-1	3.373E+1	7.296E+2	1.814E+1	7.815E+2
Co-58	1.94E-1	1.624E+3	2.928E+3	4.704E+3	9.257E+3
Co-60	5.27E+0	5.237E+3	5.515E+3	4.229E+4	5.304E+4
Cr-51	7.59E-2	1.645E+3	6.172E+2	1.283E+2	2.391E+3
Cs-134	2.06E+0	2.194E+2	1.763E+3	2.635E+3	4.618E+3
Cs-137	3.02E+1	5.993E+2	3.600E+3	8.821E+3	1.302E+4
Fe-55	2.69E+0	7.696E+3	4.316E+3	7.689E+4	8.891E+4
Fe-59	1.22E-1	2.110E+2	5.295E+1	1.152E+1	2.754E+2
H-3	1.23E+1	2.623E+3	3.284E+4	7.859E+2	3.625E+4
I-131	2.20E-2	3.575E+1	5.819E+1	1.599E+1	1.099E+2
Mn-54	8.55E-1	2.076E+3	1.049E+3	1.993E+4	2.305E+4
Nb-95	9.50E-2	4.956E+1	8.748E+2	2.212E+1	9.465E+2
Ni-63	1.00E+2	3.010E+2	1.551E+3	6.578E+3	8.431E+3
P-32	3.91E-2	1.002E+2	7.400E-4		1.002E+2
Pm-147	2.62E+0	6.542E+1	1.487E+2	4.707E+2	6.849E+2
S-35	2.39E-1	1.081E+2			1.081E+2
Sb-124	1.65E-1	2.546E+1	8.818E+1	3.541E+1	1.491E+2
Sb-125	2.70E+0	3.156E+1	2.881E+2	7.698E+2	1.089E+3
Sr-89	1.39E-1	4.624E+0	2.987E+2	5.530E+0	3.088E+2
Sr-90	2.88E+1	2.221E+1	9.264E+2	3.037E+3	3.985E+3
Th-232	1.41E+10	4.242E+2	1.078E-3		4.242E+2
U-238	4.47E+9	3.483E+2	4.500E-5	2.699E-3	3.483E+2
U-DEP <sup>a</sup>	-	1.404E+2			1.404E+2
Y-91	1.60E-1		4.619E+2		4.619E+2
Zn-65	6.69E-1	4.104E+3	1.281E+3	1.996E+2	5.585E+3
Zr-95	1.75E-1	3.140E+1	4.715E+2	1.418E+1	5.171E+2
Total		2.793E+4	6.007E+4	1.711E+5	2.591E+5
All nuclides		2.824E+4	6.032E+4	1.712E+5	2.598E+5

a. U-DEP: depleted uranium.

Table 40. 1989 Radionuclides in Quantities Exceeding 100 Curies

Nuclide	Half-Life (Years)	Activity (Ci)				Total
		Class A	Class B	Class C	Class D	
Ag-110m	6.91E-1	4.633E+1	8.200E+1	3.789E+1	1.662E+2	
C-14	5.73E+3	2.009E+2	2.461E+1	1.463E+2	3.718E+2	
Ce-141	8.90E-2	7.736E+0	1.311E+2	2.442E+0	1.413E+2	
Ce-144	7.80E-1	3.470E+1	8.559E+2	3.277E+1	9.234E+2	
Co-58	1.94E-1	9.478E+2	3.625E+3	8.207E+3	1.278E+4	
Co-60	5.27E+0	5.606E+3	4.308E+4	2.279E+5	2.766E+5	
Cr-51	7.59E-2	1.784E+3	1.600E+3	9.194E+2	4.303E+3	
Cs-134	2.06E+0	3.518E+2	2.125E+3	1.663E+3	4.140E+3	
Cs-137	3.02E+1	8.865E+2	4.293E+3	1.122E+4	1.640E+4	
Fe-55	2.69E+0	7.983E+3	5.269E+3	3.664E+5	3.797E+5	
Fe-59	1.22E-1	1.814E+2	4.793E+1	1.838E+1	2.477E+2	
H-3	1.23E+1	3.679E+3	9.025E+4	4.207E+3	9.819E+4	
Hf-175	1.92E-1	2.000E-6		3.380E+2	3.380E+2	
Hf-181	1.16E-1	8.091E-3		7.661E+2	7.661E+2	
I-125	1.65E-1	1.082E+2	3.040E-3	2.600E-2	1.082E+2	
I-131	2.20E-2	9.026E+1	1.794E+2	4.056E+0	2.737E+2	
Kr-85	1.07E+1	1.876E+2	1.045E+0	4.263E+0	1.929E+2	
Mn-54	8.55E-1	1.759E+3	1.206E+3	1.965E+4	2.261E+4	
Nb-95	9.59E-2	1.667E+2	1.009E+3	3.325E+1	1.209E+3	
Ni-63	1.00E+2	5.048E+2	2.182E+3	2.558E+4	2.827E+4	
Pm-147	2.62E+0	5.423E+1	1.919E+2	1.127E+3	1.373E+3	
Ru-103	1.08E-1	5.343E+0	8.647E+1	4.791E+1	1.397E+2	
S-35	2.39E-1	2.855E+2			2.855E+2	
Sb-125	2.70E+0	3.192E+2	8.208E+1	1.261E+3	1.662E+3	
Sr-89	1.39E-1	2.855E+1	3.646E+2	9.411E+0	4.025E+2	
Sr-90	2.88E+1	1.537E+1	1.454E+2	7.085E+3	7.245E+3	
Th-232	1.41E+10	2.812E+2	1.720E-4	9.700E-4	2.813E+2	
U-238	4.47E+9	3.165E+2	3.070E-2	1.602E-3	3.166E+2	
U-DEP <sup>a</sup>	-	1.193E+2	4.279E-1		1.197E+2	
Y-91	1.60E-1	1.805E+1	5.609E+2		5.789E+2	
Zn-65	6.69E-1	2.364E+3	3.077E+3	1.453E+1	5.456E+3	
Zr-95	1.75E-1	4.052E+1	5.605E+2	1.560E+1	6.166E+2	
Total		2.837E+4	1.610E+5	6.768E+5	8.662E+5	
All nuclides		2.864E+4	1.612E+5	6.770E+5	8.669E+5	

a. U-DEP: depleted uranium.

Table 41. 1987 Radionuclides Having Half-Lives Exceeding 100 Years

Nuclide	Half-Life (Years)	Activity (Ci)			Total
		Class A	Class B	Class C	
Ag-108m	1.27E+2	7.247E-1			7.247E-1
Al-26	7.40E+5	4.000E-5			4.000E-5
Am-241	4.33E+2	2.317E-1	9.089E-2	1.318E-1	4.544E-1
Am-243	7.95E+3	1.354E-3		1.000E-6	1.355E-3
C-14	5.73E+3	1.603E+2	1.175E+1	6.372E+1	2.357E+2
Cl-36	3.00E+5	2.116E-1			2.116E-1
Cm-248	4.70E+5			6.310E-2	6.310E-2
Cs-135	3.00E+6	1.455E+0			1.455E+0
I-129	1.60E+7	6.854E-1	1.684E-1	1.662E-1	1.021E+0
K-40	1.28E+9	1.986E-2			1.986E-2
Nb-94	2.03E+4	1.809E-2	3.321E-2	9.518E-1	1.003E+0
Ni-59	7.50E+4	8.170E+0	7.347E+0	6.637E+1	8.189E+1
Ni-63	1.00E+2	3.289E+2	1.273E+3	8.011E+3	9.613E+3
Np-237	2.14E+6	1.723E-3	1.100E-4	1.903E-2	2.086E-2
Pa-231	3.25E+4	4.000E-6			4.000E-6
Po-209	1.03E+2	1.100E-5			1.100E-5
Pu-239	2.41E+4	1.300E-1	5.932E-2	5.761E-2	2.469E-1
Pu-240	6.57E+3	3.689E-2	2.450E-3	1.389E-2	5.322E-2
Pu-242	3.76E+5	3.760E-3	4.360E-3	3.100E-5	8.151E-3
Ra-226	1.60E+3	4.363E+0	1.640E-2	2.688E+0	7.068E+0
Si-32	6.50E+2	5.000E-6			5.000E-6
Tb-158	1.20E+3	3.700E-5			3.700E-5
Tc-99	2.14E+5	1.591E+0	1.434E+0	3.895E+0	6.919E+0
Te-123	1.20E+13	2.875E-2			2.875E-2
Th-229	7.34E+2	4.000E-6			4.000E-6
Th-230	8.00E+4	2.610E-4			1.610E-4
Th-232	1.41E+10	4.094E+2	1.000E-5		4.094E+2
Th-NAT <sup>a</sup>	1.41E+10	1.042E+1			1.042E+1
TRU-NOS <sup>a</sup>	-	1.701E-1	5.419E-2	1.00E-1	3.833E-1
U-233	1.59E+5	4.984E-3		2.00E-6	4.986E-3
U-234	2.45E+5	2.344E+0	5.800E-5	6.440E-4	2.345E+0
U-235	7.04E+8	9.795E-1	8.000E-6	3.500E-5	9.795E-1
U-236	2.34E+7	2.033E-2		2.000E-6	2.033E-2
U-238	4.47E+9	3.256E+2	3.256E-3	7.858E-3	3.256E+2
U-DEP <sup>a</sup>	-	1.484E+2			1.484E+2
U-NAT <sup>a</sup>	-	3.051E+0			3.051E+0
Total		1.407E+3 (13%)	1.294E+3 (12%)	8.149E+3 (75%)	1.085E+4
Total Without Ni-63		1.078E+3 (87%)	2.097E+1 (2%)	1.383E+2 (11%)	1.237E+3

a. Th-NAT: natural thorium; TRU-NOS: unspecified trans-uranic isotopes; U-DEP: depleted uranium; U-NAT: natural uranium.

Table 42. 1988 Radionuclides Having Half-Lives Exceeding 100 Years

Nuclide	Half-Life (Years)	Activity (Ci)			Total
		Class A	Class B	Class C	
Ag-108m	1.27E+2	1.030E-2			1.030E-2
Am-241	4.33E+2	6.604E-1	8.940E-2	1.711E-1	9.209E-1
C-14	5.73E+3	1.337E+2	2.338E+1	3.190E+1	1.890E+2
Cl-36	3.00E+5	3.515E-1	5.000E-5		3.516E-1
I-129	1.60E+7	1.042E+0	6.220E-2	8.702E-2	1.192E+0
K-40	1.28E+9	2.999E-3			2.999E-3
Mo-93	3.50E+3	1.000E-6			1.000E-6
Nb-94	2.03E+4	4.494E-2	4.590E-1	2.175E-1	7.214E-1
Ni-59	7.50E+4	9.408E-1	4.722E-2	4.401E+1	4.968E+1
Ni-63	1.00E+2	3.010E+2	1.551E+3	6.578E+3	8.431E+3
Np-237	2.14E+6	4.000E-5	4.500E-4		4.900E-4
Pu-239	2.41E+4	1.176E-1	7.053E-2	1.831E-1	3.712E-1
Pu-240	6.57E+3	3.802E-2	1.107E-2	6.272E-2	1.118E-1
Pu-242	3.76E+5	1.263E-2	1.910E-3	1.549E-2	3.002E-2
Ra-226	1.60E+3	1.126E+1	6.809E-2	1.616E+0	1.294E+1
Re-187	4.30E+10	1.000E-6			1.000E-6
Tb-157	1.50E+2	1.000E-5			1.000E-5
Tb-158	1.20E+3	1.000E-5			1.000E-5
Tc-99	2.14E+5	3.085E+0	1.182E+0	6.110E+0	1.038E+1
Te-123	1.20E+13	2.027E-2			2.027E-2
Th-229	7.34E+3	1.000E-5			1.000E-5
Th-230	8.00E+4	1.190E-3	1.000E-6		1.191E-3
Th-232	1.41E+10	4.242E+2	1.078E-3		4.242E+2
Th-NAT <sup>a</sup>	1.41E+10	2.150E+1			2.150E+1
TRU-NOS <sup>a</sup>	-	4.330E-1	8.400E-2	5.316E-1	1.049E+0
U-233	1.59E+5	4.000E-6			4.000E-6
U-234	2.45E+5	2.091E+0	6.820E-4	8.940E-4	2.092E+0
U-235	7.04E+8	3.988E-1	2.100E-5	5.605E-3	4.044E-1
U-236	2.34E+7	1.939E-2			1.939E-2
U-238	4.47E+9	3.483E+2	4.500E-5	2.699E-3	3.483E+2
U-DEP <sup>a</sup>	-	1.404E+2			1.404E+2
U-NAT <sup>a</sup>	-	3.346E+0	1.606E-3		3.346E+0
Total		1.393E+3 (14%)	1.581E+3 (16%)	6.663E+3 (69%)	9.638E+3
Total Without Ni-63		1.092E+3 (90%)	3.013E+1 (2%)	8.492E+1 (7%)	1.207E+3

a. Th-NAT: natural thorium; TRU-NOS: unspecified transuranic isotopes; U-DEP: depleted uranium; U-NAT: natural uranium.

Table 43. 1989 Radionuclides Having Half-Lives Exceeding 100 Years

Nuclide	Half-Life (Years)	Activity (Ci)			Total
		Class A	Class B	Class C	
Ag-108m	1.27E+2			9.460E-3	9.460E-3
Am-241	4.33E+2	2.165E-1	5.366E-2	4.158E+0	4.429E+0
Am-243	7.95E+3	1.110E-4			1.110E-4
C-14	5.73E+3	2.009E+2	2.461E+1	1.463E+2	3.718E+2
Cd-113	1.30E+15	1.000E-6			1.000E-6
Cl-36	3.00E+5	3.093E-1			3.093E-1
Cs-135	3.00E+6	4.960E-2			4.960E-2
I-129	1.60E+7	4.574E-1	2.217E-2	7.751E-2	5.571E-1
K-40	1.28E+9	2.070E-4			2.070E-4
Nb-94	2.03E+4	3.606E-1	3.383E-2	1.810E-1	5.754E-1
Nd-144	2.40E+15	4.000E-5			4.000E-5
Ni-59	7.50E+4	2.310E+0	1.000E+1	5.721E+1	6.952E+1
Ni-63	1.00E+2	5.048E+2	2.182E+3	2.558E+4	2.827E+4
Np-237	2.14E+6	1.679E-3	3.000E-6		1.682E-3
Pa-231	3.25E+4	1.700E-5			1.700E-5
Po-209	1.03E+2	1.100E-5			1.100E-5
Pu-239	2.41E+4	1.935E-1	4.160E-2	3.410E-1	5.761E-1
Pu-240	6.57E+3	2.442E-2	3.220E-3	8.109E-2	1.087E-1
Pu-242	3.76E+5	1.123E-2	3.300E-5	1.861E-2	2.987E-2
Ra-226	1.60E+3	2.535E+1	7.734E-1	5.295E-1	2.665E+1
Re-187	4.30E+10	2.000E-6			2.000E-6
Tb-157	1.50E+2	2.000E-6			2.000E-6
Tb-158	1.20E+3	2.000E-6			2.000E-6
Tc-99	2.14E+5	4.944E+0	6.395E-1	5.566E+0	1.115E+1
Te-123	1.20E+13	3.999E-2			3.999E-2
Th-229	7.34E+2	2.000E-6			2.000E-6
Th-230	8.00E+4	1.162E-3	1.500E-5		1.177E-3
Th-232	1.41E+10	2.812E+2	1.720E-4	9.700E-4	2.813E+2
Th-NAT <sup>a</sup>	1.41E+10	7.913E+0			7.913E+0
TRU-NOS <sup>a</sup>	-	1.403E-1	6.080E-3	4.079E-2	1.871E-1
U-233	1.59E+5	4.585E-2			4.585E-2
U-234	2.45E+5	3.973E+0	1.400E-4	8.119E-3	3.981E+0
U-235	7.04E+8	3.401E+0	1.000E-6	9.800E-5	3.401E+0
U-236	2.34E+7	1.083E-1			1.083E-1
U-238	4.47E+9	3.165E+2	3.070E-2	1.602E-3	3.166E+2
U-DEP <sup>a</sup>	-	1.193E+2	4.279E-1		1.197E+2
U-NAT <sup>a</sup>	-	4.181E+0	3.410E-4		4.181E+0
Total		1.477E+3 (5%)	2.219E+3 (8%)	2.579E+4 (87%)	2.949E+4
Total Without Ni-63		9.719E+2 (79%)	3.664E+1 (3%)	2.145E+2 (18%)	1.223E+3

a. Th-NAT: natural thorium; TRU-NOS: unspecified trans-uranic isotopes; U-DEP: depleted uranium; U-NAT: natural uranium.



But for this report, the 100-year half-life criterion was chosen largely as a means of illustrating a few points. As indicated in Tables 41 through 43, with the exception of Ni-63, which has a 100-year half-life, most of the long-lived activity resides in Class A waste. Class C waste initially contains most of the LLW activity, followed by Class B waste and then Class A waste. But eventually, Class A waste will contain most of the activity, followed by Class C waste. Class B waste will contain the least activity.

It would be an instructive exercise to perform decay calculations to determine when the cross-over points occur. The results of a simple analysis, in which individual radionuclides were decayed without regard to decay chains, suggest that for all three years, Class B waste decays to the level of Class A waste after about 100 years. For waste disposed in 1987 and 1988, the Class C waste activity decays to the level of Class A waste activity after about 300 years. For waste disposed in 1989, the Class C waste activity decays to the level of the Class A waste activity after about 500 years.

The data also suggest that the principal reason that it takes so long for Class C waste to decay to Class A levels is Ni-63. Nickel-63 has a half-life of about 100 years and is principally found in Class C waste. (Over the three years considered, from 78 to 90 percent of the Ni-63 activity was delivered in Class C waste.) It is a weak beta-emitter (0.067 MeV maximum) and does not emit gamma radiation. It is principally generated by nuclear power plants, mostly in activated metal wastes but also in process and dry active wastes. In 1987, about 72 percent of all Ni-63 activity was found in activated metal wastes.

Absent Ni-63, most of the long-lived activity in LLW is contributed by Ni-59, C-14, and various uranium and thorium isotopes. Ni-59 is principally reported in activated metal wastes. The other isotopes are found in a number of waste streams. An indication of the distribution of these isotopes among different generators is provided in Table 44.

Table 44 was assembled from data in Appendices A and B, and indicates the percent distribution of a number of radionuclides among five categories of waste generators. The data are for waste delivered to the two USE disposal facilities during 1989. The table also indicates the percentage of each radionuclide that was disposed at these two USE facilities. This gives an indication of the representativeness of the distributions.

Sixty-three percent of the C-14 activity was disposed at the two USE facilities, and of this activity, nearly 90 percent was delivered in waste from industrial generators. For thorium and uranium, however, the distribution is not as clear-cut. Almost all of the long-lived thorium was disposed at the Barnwell disposal facility. But of the thorium activity that was delivered to the two USE facilities, most was contributed by industrial generators. (Thorium, of course, occurs naturally as Th-232. However, in the data obtained from USE, natural thorium was cited separately from Th-232. The separate citations have been retained in this report.)

Table 44. U.S. Ecology 1989 Distribution of Activity Among General Industries for Selected Radionuclides

Nuclide	Activity Distribution (%)					USE % of Tot. Act
	Colleges	Government	Hospitals	Industry	Utilities	
Am-241	1.11E+00	6.70E-01	9.97E-02	9.74E+01	7.08E-01	9.18E+01
Am-243	1.41E+00	0.00E+00	0.00E+00	4.23E+01	5.63E+01	6.40E+01
C-14	1.85E+00	1.22E-01	6.84E-01	8.99E+01	7.45E+00	6.38E+01
Cm-242	0.00E+00	0.00E+00	0.00E+00	3.24E-03	1.00E+02	3.19E+00
Cm-243	0.00E+00	0.00E+00	0.00E+00	5.21E-02	9.99E+01	1.12E+01
Cm-244	8.96E-02	1.51E+01	2.09E+01	1.79E-01	6.37E+01	8.56E-01
Co-60	1.37E-01	9.70E-03	2.34E-01	5.22E+01	4.74E+01	7.39E+00
Cs-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+02	1.27E-01
Cs-137	1.26E+01	1.82E-02	2.12E-02	2.57E+01	6.16E+01	4.72E+01
Fe-55	2.67E-04	8.41E-03	3.17E-05	9.99E-03	1.00E+02	4.56E+00
H-3	2.85E-01	1.11E+00	5.94E-02	9.82E+01	3.54E-01	8.44E+01
I-129	4.30E-02	1.26E-03	2.06E+00	1.59E+01	8.20E+01	1.42E+01
Nb-94	6.53E+01	2.82E-01	0.00E+00	1.12E+01	2.32E+01	1.18E+01
Ni-59	0.00E+00	0.00E+00	0.00E+00	2.97E-03	1.00E+02	1.51E+01
Ni-63	1.69E-02	1.00E-02	2.14E-03	1.71E+00	9.83E+01	6.54E+00
Np-237	0.00E+00	0.00E+00	0.00E+00	2.56E+01	7.44E+01	3.88E+01
Pu-236	0.00E+00	1.00E+02	0.00E+00	0.00E+00	0.00E+00	1.00E+02
Pu-238	0.00E+00	9.06E-04	0.00E+00	5.95E+01	4.05E+01	3.13E+01
Pu-239	4.08E-02	4.80E+00	0.00E+00	1.72E+01	7.80E+01	2.30E+01
Pu-240	0.00E+00	3.95E-02	0.00E+00	2.71E+01	7.28E+01	3.73E+01
Pu-241	1.00E-03	0.00E+00	0.00E+00	6.94E+00	9.31E+01	1.32E+01
Pu-242	0.00E+00	8.98E-02	0.00E+00	3.36E+01	6.63E+01	3.73E+00
Ra-226	8.56E+00	5.09E+00	5.45E+01	3.10E+01	8.44E-01	9.71E+01
Sr-90	1.74E-03	2.20E-03	8.07E-03	8.98E-01	9.91E+01	7.17E+01
Tc-99	9.22E+00	3.25E-02	2.12E+00	1.58E+01	7.28E+01	2.76E+01
Th-230	2.51E+01	5.14E-01	0.00E+00	7.44E+01	0.00E+00	9.92E+01
Th-232	3.43E-01	9.22E-02	1.65E-02	9.95E+01	0.00E+00	3.96E-01
Th-NAT <sup>a</sup>	6.19E-04	7.92E-03	0.00E+00	1.00E+02	0.00E+00	1.00E+02
U-232	0.00E+00	0.00E+00	0.00E+00	1.00E+02	0.00E+00	1.00E+02
U-233	2.40E-02	5.25E+01	1.31E+00	4.60E+01	1.22E-01	1.00E+02
U-234	0.00E+00	0.00E+00	0.00E+00	1.00E+02	4.86E-02	2.21E+01
U-235	1.40E-02	4.29E-02	0.00E+00	9.99E+01	3.37E-02	8.63E+00
U-236	0.00E+00	0.00E+00	0.00E+00	1.00E+02	0.00E+00	8.31E-02
U-238	1.23E-01	1.03E+00	5.21E-02	9.88E+01	2.82E-03	8.27E+00
U-NAT <sup>a</sup>	1.05E-01	3.19E-02	5.81E-03	9.99E+01	0.00E+00	1.00E+02
U-DEP <sup>a</sup>	0.00E+00	2.53E+00	0.00E+00	9.75E+01	0.00E+00	3.18E-01

a. Th-NAT: natural thorium; U-NAT: natural uranium; U-DEP: depleted uranium.

A somewhat similar situation exists for uranium. The bulk of the uranium activity during 1989 was contributed by depleted uranium and U-238. Little depleted uranium was reported for the USE facilities, but of the activity delivered to these facilities in 1989, 97 percent was generated by industrial generators. Only 8 percent of the U-238 activity was disposed at the USE facilities. Of this 26.2 Ci of U-238 activity, nearly 99 percent was generated by industrial generators. A similar distribution is probably applicable to U-238 disposed at the Barnwell facility.

Most of the uranium activity was probably contributed by waste generators outside of the nuclear fuel cycle. Only 3.4 curies of U-235 was disposed in 1989. If one assumes that all U-235 was generated by nuclear fuel cycle activities, then the activity of U-238 that would correspond to the U-235 activity can be estimated by considering typical enrichments. Assuming enrichment to 4 weight-percent U-235, only about 13 curies of U-238 would be disposed. Assuming no enrichment, about 76 curies of U-238 would be disposed. This implies that of the 317 curies of U-238 disposed in 1989, only about 4 to 24 percent of the activity would be generated by nuclear fuel cycle licensees.

#### 8. OTHER INFORMATION

Table 45 summarizes the presence of chelating agents in waste delivered during 1987 through 1989 to the two USE disposal facilities. The table lists volumes, activities, and other information for any waste that contains chelating agents in concentrations exceeding 0.1 percent by weight. One may note that although the current USE manifest contains a waste description specifically for solidified chelates, chelating agents can be delivered in other waste streams as well.

Information about the total number of LLW shipments made to the three disposal facilities is summarized below. Clearly, over the last few years the total number of shipments to the disposal facilities has been considerably reduced.

<u>Year</u>	<u>Barnwell</u>	<u>Richland</u>	<u>Beatty</u>	<u>Total</u>
1987	2,681	2,336	770	5,787
1988	2,734	770	239	3,743
1989	2,997	816	302	4,115

The number of individual waste containers delivered to the two USE disposal facilities is summarized below.

<u>Year</u>	<u>Richland</u>	<u>Beatty</u>	<u>Total</u>
1987	36,973	26,351	63,324
1988	29,634	7,778	37,412
1989	33,675	8,812	42,487

Table 46 summarizes the distribution of waste container volumes for waste delivered to the Richland and Beatty facilities during 1988 and 1989. Over

Table 45. LLW Delivered to U.S. Ecology Disposal Facilities and Containing Chelating Agents in Concentrations Exceeding 0.1 Weight Percent

Year	Industry Group	Volume (ft <sup>3</sup> )	Activity (Ci)	Waste and Stab. Class	Waste Description
1988	Nuclear utility	2.616E+2	3.364E+1	AS <sup>a</sup>	Dewatered resins
	Nuclear utility	1.817E+2	1.377E+2	AS	Solidified resins
	Nuclear utility	4.920E+3	5.350E-1	AU <sup>a</sup>	Solidified chelates
	Government	<u>2.250E+1</u> 5.386E+3	<u>2.301E-3</u> 1.718E+2	AU	Solidified liqui...
1989	Nuclear utility	2.289E+3	4.318E+1	AU	Solidified chelates
	Government	9.359E+1	1.490E-3	AU	Solidified chelates
	Government	4.500E+1	4.211E-3	AU	Solidified liquids
	Industrial	<u>7.051E+2</u> 3.133E+3	<u>1.051E+0</u> 4.424E+1	AU	Solidified chelates

a. AS: Class A, stable; AU: Class A, unstable.

CTR Count	CTR Volume	CTR Count	CTR Volume	CTR Count	CTR Volume	CTR Count	CTR Volume	CTR Count	CTR Volume	CTR Count	CTR Volume
5	0.02	2	11.51	3	48.20	1	59.75	8	108.00	27	181.70
2	0.14	1	11.59	3	48.23	9	60.00	46	119.00	21	182.00
1	0.20	1011	11.60	2	48.30	1	60.50	1	111.13	20	183.20
6	0.24	4	11.66	1	48.60	3	61.00	1	112.00	18	196.00
5	0.45	177	12.00	7	48.70	2	61.50	20	115.00	154	199.40
352	0.47	826	12.10	1	48.80	1	62.00	2	116.00	3	200.00
206	0.54	1	12.33	7	49.00	1	70.00	2	117.00	43	202.00
2	0.61	1	12.50	1	49.20	1	72.00	1	117.90	3	202.10
581	0.67	84	13.10	9	49.22	2	73.40	10	118.00	2	205.00
2	0.68	11	13.30	9	49.30	1	73.66	2	120.00	42	206.10
37	1.07	1	14.30	2	49.40	1	76.20	1	121.00	4	207.40
91	1.10	1	14.50	11	49.50	1	77.00	1	121.30	1	207.00
1	1.20	24	15.00	6	49.70	1	80.00	3	126.00	9	218.00
1	1.30	1	16.56	15	49.80	16	80.30	3	126.50	1	229.00
2	1.34	9	16.80	23	49.90	2	82.00	2	128.00	1	270.00
12	1.40	38	16.90	104	50.00	1	83.00	1	130.00	8	273.00
1	1.56	15	16.80	1	50.15	4	84.00	16	130.00	2	283.50
34	1.60	1	21.40	479	50.20	52	86.00	6	131.00	1	288.00
2	1.63	1	21.70	4	50.25	6	86.25	4	132.00	1	293.00
2	2.00	1	23.20	6	50.30	6	87.00	3	132.40	1	294.00
1	2.40	1	23.24	3	50.40	1	87.80	1	134.60	1	296.00
5	2.50	1	24.00	2	50.50	75	88.00	4	135.00	2	313.00
9	2.70	1	25.70	1	50.80	202	88.60	5	135.00	1	316.00
1	2.71	1	26.20	14	50.90	1	89.00	1	136.00	1	846.00
1	3.00	1	27.75	12	51.40	63	90.00	1	138.00	1	1004.16
1	3.64	1	28.20	5	51.80	1	90.10	1	139.00	1	1005.00
58	4.00	26	29.30	13	52.00	186	92.00	41	139.10	9	1150.00
1584	4.01	1	29.34	6	52.30	148	92.50	26	142.00	9	1450.00
17	4.10	14	30.00	9	52.70	5	93.00	1	144.00		
150	4.90	2	30.20	5	52.80	55	93.50	10	144.70		
2	5.50	1	30.21	2	53.20	38	93.80	6	155.00		
11	6.20	1	30.94	3	53.30	4	94.00	8	158.50		
1	7.30	1	31.30	1	53.70	59	95.00	1	160.00		
62479	7.50	306	32.33	6	53.80	459	96.00	1	161.00		
2	8.00	1	34.00	1	54.00	6	96.20	2	163.00		
1727	8.20	10	34.30	5	54.20	2	96.44	1	163.30		
1	8.50	1	40.00	23	54.30	174	98.00	1	165.00		
1	8.86	1	40.80	1	54.70	7	99.67	80	167.00		
2	9.00	2	41.70	1	54.75	7	100.00	50	170.00		
2	9.20	10	42.00	11	55.00	17	100.33	64	170.20		
1	9.70	1	43.00	89	55.20	1	100.50	9	172.00		
1	9.70	18	44.00	1	55.30	42	100.80	5	172.50		
69	10.00	2	44.10	4	55.70	32	101.00	1	172.60		
4	10.60	162	45.00	1	56.00	2	101.81	1	174.00		
8	10.70	2	45.21	6	56.20	5	102.00	3	175.00		
14	10.77	1	45.37	2	57.10	8	102.60	2	176.00		
4620	10.80	1	45.70	2	57.60	17	103.00	4	177.30		
111	10.90	1	45.80	2	58.10	1	103.82	2	177.50		
3	11.00	1	46.60	3	58.40	1	104.50	29	177.90		
96	11.30	1	46.80	1	58.50	1	106.00	23	178.00		
16	11.36	13	47.50	1	58.60	78	107.00	1	178.00		
5	11.40	1	47.80	1	59.00	114	107.50	3	178.90		
893	11.50	2	48.00	2	59.50	71	107.64	1	180.10		

Table 46. U.S. Ecology 1988 and 1989 Distribution of Waste Container Volumes (ft<sup>3</sup>)



three-quarters of the containers had a volume of 7.5 ft<sup>3</sup>, an unsurprising situation.

Finally, Table 47 provides a distribution of the radiation levels at the surfaces of the waste containers delivered to the Richland and Beatty disposal facilities during 1988 and 1989. Radiation levels are in units of milliRoentgens per hour (mR/hr), and are separated into ten ranges. The table lists the percentage of all containers that had surface radiation levels within each range, as well as the average radiation level within each range. For both years, nearly 90 percent of the waste volume had surface radiation levels less than 100 mR/hr.

#### REFERENCES

1. Vance and Associates, "An Assessment of 10 CFR 61 Waste Classification Methods," August 1986.
2. Robertson, D.E., et al., "Below Regulatory Concern Owners Group: Radionuclide Characterization of Potential BRC Waste Types from Nuclear Power Stations," EPRI-5677, Battelle, Pacific Northwest Laboratories for the Electric Power Research Institute, March 1989.



Table 47. U.S. Ecology 1988 and 1989 Distribution of Waste Container  
Surface Radiation Levels (mR/hr)

Year	Range (mR/hr)		Percent in Range	Average in Range (mR/hr)
1988	.00 to	.01	1.24	9.96E-3
	.02 to	.10	12.9	6.69E-2
	.11 to	1.00	26.7	4.75E-1
	1.01 to	10.00	24.7	3.40E+0
	10.01 to	100.00	32.2	3.76E+1
	100.01 to	1,000.00	6.75	3.09E+2
	1,000.01 to	10,000.00	3.45	1.85E+3
	10,000.01 to	100,000.00	.913	3.63E+4
	100,000.01 to	1,000,000.00	.080	2.66E+5
	1,000,000.01 to	99,999,999.99	.000	0.00E+0
			Average:	1.52E+2
1989	.00 to	.01	2.69	1.00E-2
	.02 to	.10	16.9	6.15E-2
	.11 to	1.00	28.2	5.13E-1
	1.01 to	10.00	22.9	3.86E+0
	10.01 to	100.00	17.2	3.83E+1
	100.01 to	1,000.00	6.51	3.89E+2
	1,000.01 to	10,000.00	4.67	2.28E+3
	10,000.01 to	100,000.00	.891	3.54E+4
	100,000.01 to	1,000,000.00	.096	3.41E+5
	1,000,000.01 to	99,999,999.99	.005	1.00E+7
			Average:	4.46E+2

## GLOSSARY

<u>Element</u>	<u>Symbol</u>	<u>Element</u>	<u>Symbol</u>	<u>Element</u>	<u>Symbol</u>
Actinium	Ac	Hafnium	Hf	Praseodymium	Pr
Aluminum	Al	Helium	He	Promethium	Pm
Americium	Am	Holmium	Ho	Protactinium	Pa
Antimony	Sb	Hydrogen	H	Radium	Ra
Argon	A	Indium	In	Radon	Rn
Arsenic	As	Iodine	I	Rhenium	Re
Astatine	At	Iridium	Ir	Rhodium	Rh
Barium	Ba	Iron	Fe	Rubidium	Rb
Berkelium	Bk	Krypton	Kr	Ruthenium	Ru
Beryllium	Be	Khurchatorium	Ku	Samarium	Sm
Bismuth	Bi	Lanthanum	La	Scandium	Sc
Boron	B	Lawrencium	Lw	Selenium	Se
Bromine	Br	Lead	Pb	Silicon	Si
Cadmium	Cd	Lithium	Li	Silver	Ag
Calcium	Ca	Lutecium	Lu	Sodium	Na
Californium	Cf	Magnesium	Mg	Strontium	Sr
Carbon	C	Manganese	Mn	Sulfur	S
Cerium	Ce	Mendelevium	Md	Tantalum	Ta
Cesium	Cs	Mercury	Hg	Technetium	Tc
Chlorine	Cl	Molybdenum	Mo	Tellurium	Te
Chromium	Cr	Neodymium	Nd	Terbium	Tb
Cobalt	Co	Neon	Ne	Thallium	Tl
Copper	Cu	Neptunium	Np	Thorium	Th
Curium	Cm	Nickel	Ni	Thulium	Tm
Dysprosium	Dy	Niobium	Nb	Tin	Sn
Einsteinium	Es	Nitrogen	N	Titanium	Ti
Erbium	Er	Nobelium	No	Tungsten	W
Europium	Eu	Osmium	Os	Uranium	U
Fermium	Fm	Oxygen	O	Vanadium	V
Fluorine	Fl	Palladium	Pd	Xenon	Xe
Francium	Fr	Phosphorus	P	Ytterbium	Yb
Gadolinium	Gd	Platinum	Pt	Yttrium	Y
Gallium	Ga	Plutonium	Pu	Zinc	Zn
Germanium	Ge	Polonium	Po	Zirconium	Zr
Gold	Au	Potassium	K		

APPENDIX A

DISPOSAL FACILITY RADIONUCLIDE DISTRIBUTION BY WASTE CLASS

## APPENDIX A

### DISPOSAL FACILITY RADIONUCLIDE DISTRIBUTION BY WASTE CLASS

This appendix contains nine tables listing radionuclide distributions in low-level waste (LLW) disposed during 1987, 1988, and 1989 in each of the three operating LLW disposal facilities. These disposal facilities are, in tabulated order, the Barnwell, SC, disposal facility operated by Chem-Nuclear Systems, Inc. and the Richland, WA, and Beatty, NV, disposal facilities operated by U.S. Ecology, Inc. Each of the tables lists radionuclide activities in units of curies and as a function of waste class.

The tables were created from lists of radionuclide identities and activities obtained from the disposal facility operators. A few observations are in order.

On U.S. Ecology shipment manifests, shippers identify the physical and chemical characteristics of a container of waste using an index code list. Until 1988, this index code list did not include a waste stream description specifically for activated metal wastes. For these years, U.S. Ecology kept informal track of delivery of activated metal wastes by flagging Ni-63 activities contained in these wastes. Thus, for the Richland and Beatty disposal facilities during 1987, Ni-63 inventories within activated metal wastes are denoted Ni-63AM.

Anomalies in the data can be occasionally observed. Occasionally, for example, inventories of silicon and praseodymium were reported without the isotopic numbers. These nuclides are denoted in these tables with the suffix, -NOS. Also, stable isotopes are sometimes listed. These anomalies do not represent a significant activity

Otherwise, the following abbreviations are used: U-NAT means natural uranium, U-DEP means depleted uranium, Th-NAT means natural thorium (essentially Th-232), and TRU means an unspecified mixture of transuranic isotopes.

Table A-1. Barnwell 1987 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ag-108m	2.000E-05	0.000E+00	0.000E+00	2.000E-05
Ag-110	1.395E+01	1.654E+01	7.777E+00	3.826E+01
Ag-110m	9.347E+00	5.039E+01	7.089E+00	6.683E+01
Am-241	4.345E-02	7.470E-02	7.830E-03	1.260E-01
As-76	1.800E-03	0.000E+00	0.000E+00	1.800E-03
Ba-133	1.000E-04	0.000E+00	0.000E+00	1.000E-04
Ba-140	6.848E+00	7.095E+00	8.526E+00	2.247E+01
Bi-207	0.000E+00	2.276E+01	0.000E+00	2.276E+01
Ca-45	8.006E-02	0.000E+00	0.000E+00	8.006E-02
Cd-109	8.763E-01	0.000E+00	0.000E+00	8.763E-01
Ce-139	1.076E-02	0.000E+00	0.000E+00	1.076E-02
Ce-141	1.993E+00	7.010E+01	1.479E+00	7.357E+01
Ce-144	1.562E+01	4.431E+02	4.087E+00	4.628E+02
Cf-252	0.000E+00	0.000E+00	8.900E-03	8.900E-03
Cl-36	2.420E-03	0.000E+00	0.000E+00	2.420E-03
Cm-242	6.392E-02	1.677E-01	4.555E-01	6.871E-01
Cm-243	8.130E-03	3.587E-02	5.150E-03	4.915E-02
Cm-244	3.077E-02	3.299E-02	4.958E-02	1.133E-01
Cm-248	0.000E+00	0.000E+00	6.310E-02	6.310E-02
Co-56	0.000E+00	1.250E+00	0.000E+00	1.250E+00
Co-57	1.984E+00	2.192E+01	5.805E+00	2.971E+01
Co-58	7.996E+02	1.991E+03	4.698E+03	7.488E+03
Co-59	9.506E+00	2.372E-01	0.000E+00	9.743E+00
Co-60	3.875E+03	5.232E+03	5.989E+04	6.900E+04
Cr-51	2.529E+03	1.149E+03	8.998E+01	3.768E+03
Cr-57	2.000E-04	0.000E+00	0.000E+00	2.000E-04
Cs-134	2.619E+02	1.333E+03	1.511E+03	3.106E+03
Cs-135	1.455E+00	0.000E+00	0.000E+00	1.455E+00
Cs-136	1.291E+00	1.270E+00	1.403E+00	3.964E+00
Cs-137	6.524E+02	2.627E+03	2.606E+03	5.885E+03
Cs-138	1.113E-01	0.000E+00	0.000E+00	1.113E-01
C-14	3.988E+01	1.047E+01	5.518E+01	1.055E+02
Eu-152	3.618E-02	0.000E+00	0.000E+00	3.618E-02
Eu-154	3.069E-02	0.000E+00	0.000E+00	3.069E-02
Fe-55	5.079E+03	3.332E+03	7.774E+04	8.615E+04
Fe-59	1.181E+02	3.632E+01	8.971E+00	1.634E+02
Gd-153	3.024E-02	0.000E+00	0.000E+00	3.024E-02
Hg-203	7.000E-04	0.000E+00	0.000E+00	7.000E-04
H-3	2.078E+02	6.007E+03	9.219E+02	7.137E+03
In-111	2.953E-02	0.000E+00	0.000E+00	2.953E-02
In-114	4.400E-03	0.000E+00	0.000E+00	4.400E-03
In-114m	5.500E-03	0.000E+00	0.000E+00	5.500E-03
I-125	5.051E+00	0.000E+00	0.000E+00	5.051E+00
I-126	3.000E-05	0.000E+00	0.000E+00	3.000E-05
I-129	4.848E-01	1.456E-01	6.754E-02	6.979E-01



Table A-1 (Continued)

Nuclide	Class A	Class B	Class C	Total
I-131	9.080E+01	8.347E+01	2.201E+02	3.943E+02
I-132	2.125E-02	0.000E+00	0.000E+00	2.125E-02
I-133	5.668E-01	7.238E-01	0.000E+00	1.291E+00
Kr-85	1.718E+01	3.349E+00	4.460E+00	2.499E+01
K-40	1.984E-02	0.000E+00	0.000E+00	1.984E-02
La-140	9.519E+00	8.805E+00	3.630E-02	1.836E+01
La-141	6.300E-04	0.000E+00	0.000E+00	6.300E-04
Mn-54	1.724E+03	9.166E+02	7.375E+03	1.001E+04
Mo-99	7.957E-01	1.107E-01	2.978E+00	3.885E+00
Na-22	2.723E-02	0.000E+00	0.000E+00	2.723E-02
Na-24	2.009E-01	0.000E+00	0.000E+00	2.009E-01
Nb-94	1.808E-02	3.321E-02	9.512E-01	1.002E+00
Nb-95	8.805E+01	5.400E+02	3.075E+01	6.588E+02
Nb-97	1.403E-01	7.021E-01	1.400E-01	9.824E-01
Ni-59	3.372E+00	7.231E+00	6.123E+01	7.184E+01
Ni-63	2.725E+02	1.141E+03	7.674E+03	9.087E+03
Np-237	1.800E-04	1.100E-04	1.900E-02	1.929E-02
Pa-233	3.600E-04	0.000E+00	0.000E+00	3.600E-04
Pb-210	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Pm-147	1.402E+01	1.021E+02	0.000E+00	1.161E+02
Po-210	1.500E-03	0.000E+00	0.000E+00	1.500E-03
Pr-NOS	1.496E-01	0.000E+00	0.000E+00	1.496E-01
Pu-234	2.000E-05	0.000E+00	0.000E+00	2.000E-05
Pu-238	3.570E-02	5.397E-02	9.680E-03	9.935E-02
Pu-239	1.392E-02	3.262E-02	2.837E-02	7.491E-02
Pu-240	9.710E-03	1.190E-03	0.000E+00	1.090E-02
Pu-241	1.070E+01	6.468E+00	8.547E+00	2.572E+01
Pu-242	9.000E-05	4.360E-03	0.000E+00	4.450E-03
P-32	2.691E+00	1.600E-04	7.000E-05	2.691E+00
P-33	2.000E-05	0.000E+00	1.950E-03	1.970E-03
Ra-226	1.214E-01	4.500E-03	0.000E+00	1.259E-01
Rb-86	2.510E-03	0.000E+00	0.000E+00	2.510E-03
Rh-106	4.370E-03	0.000E+00	0.000E+00	4.370E-03
Ru-103	1.821E+00	4.567E+01	5.629E-01	4.805E+01
Ru-105	3.800E-04	0.000E+00	0.000E+00	3.800E-04
Ru-106	6.536E+00	2.307E+01	5.820E+00	3.543E+01
Sb-122	6.553E-02	9.258E+00	2.929E+00	1.225E+01
Sb-124	5.561E+00	2.591E+00	1.005E-01	8.252E+00
Sb-125	6.918E+00	1.740E+02	2.524E+01	2.061E+02
Sc-46	7.229E-02	0.000E+00	0.000E+00	7.229E-02
Se-75	1.546E-02	0.000E+00	0.000E+00	1.546E-02
Si-NOS	2.380E-03	0.000E+00	0.000E+00	2.380E-03
Sn-113	2.888E-01	1.783E+00	2.779E+00	4.851E+00
Sr-85	2.186E-02	0.000E+00	0.000E+00	2.186E-02
Sr-89	7.322E+00	1.766E+02	2.847E+00	1.868E+02
Sr-90	5.425E+00	5.399E+01	1.613E+02	2.207E+02
Sr-92	2.431E+00	6.951E+00	0.000E+00	9.422E+00
S-35	1.507E+00	0.000E+00	3.620E-02	1.543E+00



Table A-1 (Continued)

Nuclide	Class A	Class B	Class C	Total
Tc-99	7.590E-01	1.391E+00	3.762E+00	5.912E+00
Tc-99m	3.146E-01	7.472E-01	0.000E+00	1.062E+00
Te-125	8.740E-03	2.984E-01	0.000E+00	3.071E-01
Te-125m	2.410E-02	5.339E-02	0.000E+00	7.749E-02
Th-230	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Th-232	4.093E+02	1.000E-05	0.000E+00	4.093E+02
Tl-201	1.208E-02	0.000E+00	0.000E+00	1.208E-02
Tl-203	1.701E-01	5.419E-02	1.590E-01	3.833E-01
U-234	1.218E+00	0.000E+00	0.000E+00	1.218E+00
U-235	8.549E-01	0.000E+00	0.000E+00	8.549E-01
U-236	1.048E-02	0.000E+00	0.000E+00	1.048E-02
U-237	1.000E-05	0.000E+00	0.000E+00	1.000E-05
U-238	1.885E+02	3.110E-03	7.730E-03	1.885E+02
U-DEP	1.482E+02	0.000E+00	0.000E+00	1.482E+02
W-187	1.500E-03	0.000E+00	0.000E+00	1.500E-03
Xe-131	1.452E+00	1.740E+01	0.000E+00	1.885E+01
Xe-131m	1.254E+00	7.035E-01	0.000E+00	1.958E+00
Xe-133	3.213E+00	2.654E+00	1.309E+00	7.177E+00
Yb-169	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Y-91	6.270E+00	2.797E+02	0.000E+00	2.860E+02
Zn-65	2.801E+03	2.042E+03	1.079E+02	4.951E+03
Zr-95	6.005E+01	2.933E+02	1.689E+01	3.702E+02
Total	1.953E+04	2.830E+04	1.633E+05	2.111E+05

Table A-2. Barnwell 1988 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ag-108m	1.800E-04	0.000E+00	0.000E+00	1.800E-04
Ag-110	1.287E-02	0.000E+00	9.740E-02	1.103E-01
Ag-110m	1.578E+01	2.713E+01	3.657E+03	3.700E+03
Am-241	2.613E-01	8.582E-02	4.240E-02	3.895E-01
Am-242	1.000E-05	0.000E+00	1.110E-03	1.120E-03
As-76	7.949E-02	0.000E+00	0.000E+00	7.949E-02
Au-198	4.000E-05	0.000E+00	0.000E+00	4.000E-05
Ba-131	2.561E+01	0.000E+00	0.000E+00	2.561E+01
Ba-133	3.400E-04	0.000E+00	5.645E+00	5.646E+00
Ba-137m	0.000E+00	1.548E-02	7.393E-01	7.548E-01
Ba-140	2.639E+00	1.615E+01	0.000E+00	1.879E+01
Be-7	8.149E-01	0.000E+00	0.000E+00	8.149E-01
Ca-45	7.180E-02	0.000E+00	0.000E+00	7.180E-02
Cd-109	3.094E+00	0.000E+00	0.000E+00	3.094E+00
Ce-141	1.316E+00	1.116E+02	4.080E-02	1.129E+02
Ce-144	3.085E+01	7.282E+02	1.352E+01	7.725E+02
Cl-36	1.286E-02	5.000E-05	0.000E+00	1.291E-02
Cm-242	1.628E-01	1.449E-01	7.912E-01	1.099E+00
Cm-243	1.299E-01	3.164E-02	1.004E-02	1.716E-01
Cm-244	2.304E-02	3.026E-02	8.025E-02	1.336E-01
Co-57	9.56E+00	4.702E+01	7.755E+00	6.435E+01
Co-58	1.485E+03	2.763E+03	4.597E+03	8.844E+03
Co-59	1.400E-04	0.000E+00	0.000E+00	1.400E-04
Co-60	4.264E+03	5.209E+03	4.189E+04	5.136E+04
Cr-51	1.297E+03	6.147E+02	1.203E+02	2.032E+03
Cs-134	1.792E+02	1.425E+03	1.860E+03	3.464E+03
Cs-136	1.366E-01	4.181E+00	3.104E+00	7.422E+00
Cs-137	5.196E+02	2.895E+03	4.333E+03	7.747E+03
Cs-144	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Cu-64	8.981E-01	0.000E+00	0.000E+00	8.981E-01
C-14	4.420E+01	2.183E+01	2.515E+01	9.118E+01
Eu-154	1.000E-05	0.000E+00	4.816E-01	4.816E-01
Eu-155	3.402E-02	5.300E-03	5.300E-03	4.462E-02
Fe-55	6.131E+03	4.035E+03	7.667E+04	8.683E+04
Fe-59	2.024E+02	5.291E+01	1.112E+01	2.664E+02
Ga-67	2.000E-03	0.000E+00	0.000E+00	2.000E-03
Gd-153	2.568E-02	0.000E+00	0.000E+00	2.568E-02
Hf-181	1.062E+00	0.000E+00	0.000E+00	1.062E+00
H-3	1.346E+02	8.793E+03	7.837E+02	9.712E+03
In-111	1.964E-02	0.000E+00	0.000E+00	1.964E-02
In-114	7.550E-03	0.000E+00	0.000E+00	7.550E-03
Ir-192	7.800E-04	0.000E+00	0.000E+00	7.800E-04
I-125	7.047E+00	5.600E-04	2.500E-02	7.073E+00
I-126	4.651E-02	0.000E+00	0.000E+00	4.651E-02
I-129	9.892E-01	5.914E-02	6.899E-02	1.117E+00

Table A-2 (Continued)

Nuclide	Class A	Class B	Class C	Total
I-131	3.197E+01	5.153E+01	1.247E+01	9.597E+01
I-132	1.400E-02	0.000E+00	0.000E+00	1.400E-02
I-133	1.940E+00	0.000E+00	2.071E+00	4.012E+00
I-134	3.721E-01	0.000E+00	0.000E+00	3.721E-01
Kr-85	1.203E+01	6.807E-01	4.055E+00	1.677E+01
K-40	2.870E-03	0.000E+00	0.000E+00	2.870E-03
La-140	3.683E+00	4.352E+00	9.496E-02	8.131E+00
Mn-54	1.826E+03	1.008E+03	1.988E+04	2.271E+04
Mo-99	2.171E-01	0.000E+00	0.000E+00	2.171E-01
Na-22	2.397E-02	0.000E+00	3.006E-05	2.400E-02
Na-24	3.000E-05	0.000E+00	0.000E+00	3.000E-05
Nb-94	4.024E-02	4.590E-01	2.175E-01	7.167E-01
Nb-95	2.988E+01	8.694E+02	1.670E+01	9.160E+02
Nb-97	0.000E+00	6.510E-01	0.000E+00	6.510E-01
Ni-59	8.838E-01	4.505E+00	4.398E+01	4.937E+01
Ni-63	2.649E+02	1.481E+03	6.413E+03	8.159E+03
Ni-65	1.015E+00	0.000E+00	0.000E+00	1.015E+00
Np-237	4.000E-05	4.500E-04	0.000E+00	4.900E-04
Pa-233	1.800E-04	0.000E+00	0.000E+00	1.800E-04
Pa-234	1.350E-03	0.000E+00	0.000E+00	1.350E-03
Pm-147	5.825E+01	1.485E+02	3.174E+02	5.242E+02
Po-210	7.820E-03	5.000E-04	0.000E+00	8.320E-03
Po-218	6.000E-03	0.000E+00	0.000E+00	6.000E-03
Pu-238	6.587E-02	6.987E-02	1.347E-01	2.704E-01
Pu-239	4.355E-02	6.572E-02	1.040E-01	2.132E-01
Pu-240	7.380E-03	9.930E-03	4.061E-02	5.792E-02
Pu-241	1.520E+01	5.869E+00	1.430E+01	3.537E+01
Pu-242	1.165E-02	1.000E-05	1.547E-02	2.713E-02
P-32	3.337E+00	7.400E-04	0.000E+00	3.338E+00
Rb-226	1.921E-01	8.900E-04	4.648E-02	2.394E-01
Rb-86	4.440E-03	0.000E+00	0.000E+00	4.440E-03
Ru-103	2.880E-01	7.434E+01	0.000E+00	7.463E+01
Ru-105	9.464E-02	4.600E-01	0.000E+00	5.546E-01
Ru-106	5.384E+00	4.453E+01	1.477E+01	6.468E+01
Sb-122	4.779E-02	1.083E+01	1.468E+01	2.556E+01
Sb-124	5.497E+00	1.887E+01	3.428E+01	5.865E+01
Sb-125	1.370E+01	2.831E+02	7.641E+02	1.061E+03
Sc-46	1.520E-02	0.000E+00	0.000E+00	1.520E-02
Se-75	5.800E-04	0.000E+00	0.000E+00	5.800E-04
Sn-113	7.658E-01	2.686E+01	4.336E-01	2.805E+01
Sr-85	9.610E-03	0.000E+00	0.000E+00	9.610E-03
Sr-89	4.502E+00	2.981E+02	3.149E+00	3.058E+02
Sr-90	8.664E+00	5.716E+02	2.309E+03	2.890E+03
Sr-92	0.000E+00	1.835E-01	2.870E-01	4.705E-01
S-35	1.856E+00	0.000E+00	0.000E+00	1.856E+00
Ta-182	4.500E-04	0.000E+00	0.000E+00	4.500E-04
Tc-99	2.329E+00	1.158E+00	5.684E+00	9.171E+00
Tc-99m	8.958E-02	0.000E+00	1.586E-01	2.482E-01

Table A-2 (Continued)

Nuclide	Class A	Class B	Class C	Total
Te-125m	5.843E-02	1.609E+00	5.999E+00	7.667E+00
Te-132	7.300E-04	0.000E+00	0.000E+00	7.300E-04
Th-232	4.237E+02	0.000E+00	0.000E+00	4.237E+02
Tl-201	6.800E-04	0.000E+00	0.000E+00	6.800E-04
TRU	4.330E-01	8.400E-02	5.316E-01	1.049E+00
U-234	2.073E+00	6.600E-04	1.800E-04	2.074E+00
U-235	3.342E-01	1.000E-05	0.000E+00	3.342E-01
U-236	1.936E-02	0.000E+00	0.000E+00	1.936E-02
U-238	3.207E+02	3.000E-05	1.100E-04	3.207E+02
U-DEP	1.404E+02	0.000E+00	0.000E+00	1.404E+02
Xe-131	5.812E-02	7.186E-01	0.000E+00	7.767E-01
Xe-131m	2.875E+00	5.807E+00	3.333E-02	8.715E+00
Xe-133	9.312E-01	9.961E-01	0.000E+00	1.927E+00
Xe-133m	1.580E-03	1.424E+00	0.000E+00	1.426E+00
Xe-135	7.980E-03	0.000E+00	0.000E+00	7.980E-03
Y-90	0.000E+00	0.000E+00	3.044E-02	3.044E-02
Y-91	0.000E+00	4.619E+02	0.000E+00	4.619E+02
Zn-65	3.681E+03	1.152E+03	1.996E+02	5.033E+03
Zr-95	1.960E+01	4.688E+02	1.139E+01	4.998E+02
Total	2.124E+04	3.374E+04	1.640E+05	2.190E+05

Table A-3. Barnwell 1989 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ag-108m	0.000E+00	0.000E+00	8.460E-03	8.460E-03
Ag-110	1.761E+00	0.000E+00	5.046E-02	1.812E+00
Ag-110m	3.769E+01	8.056E+01	2.937E+01	1.476E+02
Am-241	1.085E-01	5.068E-02	2.025E-01	3.616E-01
Am-242	0.000E+00	0.000E+00	2.850E-03	2.850E-03
Am-243	4.000E-05	0.000E+00	0.000E+00	4.000E-05
Au-195	1.290E-03	0.000E+00	0.000E+00	1.290E-03
Au-198	1.004E-02	0.000E+00	0.000E+00	1.004E-02
Ba-131	1.109E-01	0.000E+00	0.000E+00	1.109E-01
Ba-133	9.204E-02	5.200E-04	1.200E-04	9.268E-02
Ba-137m	0.000E+00	0.000E+00	4.137E-01	4.137E-01
Ba-140	1.297E+01	1.023E+00	1.930E+01	3.329E+01
Be-7	2.120E-02	8.760E-01	5.793E+00	6.690E+00
Bi-207	4.770E-03	0.000E+00	0.000E+00	4.770E-03
Bi-210	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Ca-45	1.609E-01	0.000E+00	0.000E+00	1.609E-01
Cd-109	9.300E-02	1.630E-03	7.950E-01	8.896E-01
Ce-139	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Ce-141	7.183E+00	1.311E+02	2.377E+00	1.407E+02
Ce-143	0.000E+00	2.780E+00	0.000E+00	2.780E+00
Ce-144	3.276E+01	8.559E+02	1.784E+01	9.065E+02
Cl-36	2.386E-02	0.000E+00	0.000E+00	2.386E-02
Cm-242	9.841E-02	1.331E+00	1.374E+00	2.804E+00
Cm-243	1.028E-02	3.180E-02	3.670E-03	4.575E-02
Cm-244	3.214E-02	1.448E-01	2.108E-01	3.878E-01
Co-57	2.987E+00	1.912E+01	9.038E+00	3.115E+01
Co-58	8.011E+02	3.456E+03	8.034E+03	1.229E+04
Co-59	0.000E+00	0.000E+00	9.500E-03	9.500E-03
Co-60	3.899E+03	3.204E+04	2.202E+05	2.562E+05
Cr-51	1.152E+03	1.569E+03	4.794E+02	3.201E+03
Cs-134	3.216E+02	1.315E+03	1.460E+03	3.097E+03
Cs-135	4.954E-02	0.000E+00	0.000E+00	4.954E-02
Cs-136	2.825E-01	8.626E+00	0.000E+00	8.909E+00
Cs-137	8.217E+02	2.596E+03	5.237E+03	8.655E+03
Cs-144	3.400E-04	0.000E+00	0.000E+00	3.400E-04
C-14	6.007E+01	2.239E+01	5.225E+01	1.347E+02
Dy-NOS	1.000E-04	0.000E+00	0.000E+00	1.000E-04
Eu-152	1.278E-02	0.000E+00	0.000E+00	1.278E-02
Eu-154	1.090E-02	1.510E-01	1.876E+00	2.038E+00
Eu-155	3.392E-01	0.000E+00	1.153E-01	4.545E-01
Fe-55	4.910E+03	4.979E+03	3.525E+05	3.624E+05



Table A-3 (Continued)

Nuclide	Class A	Class B	Class C	Total
Fe-59	1.224E+02	4.540E+01	1.700E+01	1.848E+02
Ga-67	1.633E-02	0.000E+00	0.000E+00	1.633E-02
Gd-153	4.695E-01	0.000E+00	0.000E+00	4.695E-01
Ge-68	4.913E-02	0.000E+00	0.000E+00	4.913E-02
Hf-175	0.000E+00	0.000E+00	3.380E+02	3.380E+02
Hf-181	2.700E-03	0.000E+00	7.661E+02	7.661E+02
Hg-203	1.070E-03	0.000E+00	0.000E+00	1.070E-03
H-3	5.466E+02	1.125E+04	3.515E+03	1.531E+04
In-111	2.392E-02	0.000E+00	0.000E+00	2.392E-02
In-114	1.100E-03	0.000E+00	0.000E+00	1.100E-03
In-114m	5.460E-03	0.000E+00	0.000E+00	5.460E-03
Ir-192	4.400E-04	3.920E-01	1.000E-05	3.925E-01
I-123	2.000E-05	0.000E+00	0.000E+00	2.000E-05
I-125	2.696E+01	1.070E-03	2.600E-02	2.699E+01
I-126	1.000E-05	0.000E+00	0.000E+00	1.000E-05
I-129	3.962E-01	1.880E-02	6.294E-02	4.779E-01
I-131	8.722E+01	1.782E+02	4.033E+00	2.694E+02
I-133	1.512E-01	0.000E+00	2.488E+00	2.639E+00
I-134	4.860E-01	0.000E+00	0.000E+00	4.860E-01
Kr-85	8.484E+01	4.532E-02	4.263E+00	8.915E+01
K-40	1.800E-04	0.000E+00	0.000E+00	1.800E-04
La-140	5.925E+00	1.842E+00	1.166E+00	8.934E+00
Mn-54	1.145E+03	1.122E+03	1.924E+04	2.151E+04
Mo-99	1.208E-01	0.000E+00	0.000E+00	1.208E-01
Na-22	1.361E-01	0.000E+00	0.000E+00	1.361E-01
Na-24	1.883E-02	0.000E+00	0.000E+00	1.883E-02
Nb-93	3.200E-04	0.000E+00	0.000E+00	3.200E-04
Nb-94	3.059E-01	3.383E-02	1.680E-01	5.078E-01
Nb-95	1.091E+02	9.947E+02	2.759E+01	1.131E+03
Nd-147	9.000E-05	0.000E+00	0.000E+00	9.000E-05
Nd-NOS	2.368E-02	0.000E+00	0.000E+00	2.368E-02
Ni-59	2.275E+00	8.528E+00	4.825E+01	5.905E+01
Ni-63	4.299E+02	1.920E+03	2.407E+04	2.642E+04
Np-237	1.030E-03	0.000E+00	0.000E+00	1.030E-03
Np-239	8.958E-02	0.000E+00	0.000E+00	8.958E-02
Pa-233	1.400E-04	0.000E+00	0.000E+00	1.400E-04
Pb-210	3.700E-04	0.000E+00	1.800E-01	1.804E-01
Pm-147	4.923E+01	1.919E+02	4.400E+02	6.811E+02
Po-210	2.855E-02	2.900E-03	5.000E-04	3.195E-02
Pr-144	0.000E+00	8.310E-03	3.610E-03	1.192E-02
Pu-238	7.671E-02	3.797E-02	1.274E-01	2.420E-01
Pu-239	1.634E-01	3.771E-02	2.427E-01	4.437E-01
Pu-240	1.469E-02	2.840E-03	5.068E-02	6.821E-02
Pu-241	1.122E+01	3.433E+00	1.357E+01	2.822E+01
Pu-242	1.013E-02	3.000E-05	1.860E-02	2.876E-02
P-32	9.370E+00	1.137E+01	0.000E+00	2.074E+01
Ra-226	7.757E-01	1.680E-03	5.800E-04	7.780E-01



Table A-3 (Continued)

Nuclide	Class A	Class B	Class C	Total
Rb-86	1.435E-02	0.000E+00	0.000E+00	1.435E-02
Rh-103	5.400E-04	0.000E+00	0.000E+00	5.400E-04
Rh-105	4.602E-01	0.000E+00	1.761E+00	2.221E+00
Rh-106	7.380E-03	0.000E+00	0.000E+00	7.380E-03
Ru-103	4.608E+00	8.646E+01	4.777E+01	1.388E+02
Ru-106	4.185E+00	3.909E+01	2.814E+01	7.142E+01
Sb-122	7.354E-01	4.693E+00	1.818E+01	2.361E+01
Sb-124	1.176E+01	1.055E+01	5.069E-01	2.281E+01
Sb-125	3.138E+02	7.476E+01	1.246E+03	1.634E+03
Sc-46	7.252E-02	0.000E+00	0.000E+00	7.252E-02
Se-75	3.826E-02	7.401E-02	9.900E-02	2.113E-01
Sn-113	1.220E+00	1.834E+00	3.668E+00	6.723E+00
Sn-117m	3.060E-03	0.000E+00	0.000E+00	3.060E-03
Sr-85	6.971E-02	0.000E+00	0.000E+00	6.971E-02
Sr-89	2.793E+01	3.635E+02	8.838E+00	4.003E+02
Sr-90	1.290E+01	1.270E+02	1.910E+03	2.050E+03
S-35	8.173E+00	0.000E+00	0.000E+00	8.173E+00
Ta-182	0.000E+00	3.500E+01	2.909E-01	3.529E+01
Tc-99	3.589E+00	6.239E-01	3.859E+00	8.072E+00
Tc-99m	4.178E-02	0.000E+00	0.000E+00	4.178E-02
Te-125m	1.140E-01	2.000E+00	4.734E+01	4.945E+01
Te-129m	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Te-132	0.000E+00	0.000E+00	3.542E-02	3.542E-02
Te-204	1.000E-03	0.000E+00	0.000E+00	1.000E-03
Th-228	7.000E-05	0.000E+00	0.000E+00	7.000E-05
Th-230	0.000E+00	1.000E-05	0.000E+00	1.000E-05
Th-232	2.801E+02	1.000E-04	9.700E-04	2.801E+02
Tl-201	1.393E-02	0.000E+00	0.000E+00	1.393E-02
Tl-204	1.175E-01	0.000E+00	0.000E+00	1.175E-01
TRU-NOS	1.403E-01	6.080E-03	4.079E-02	1.871E-01
U-234	3.095E+00	1.400E-04	7.830E-03	3.103E+00
U-235	3.108E+00	0.000E+00	6.000E-05	3.108E+00
U-236	1.082E-01	0.000E+00	0.000E+00	1.082E-01
U-237	1.070E-03	0.000E+00	0.000E+00	1.070E-03
U-238	2.903E+02	3.070E-02	1.100E-03	2.904E+02
U-DEP	1.189E+02	4.279E-01	0.000E+00	1.193E+02
Xe-131m	1.311E+01	5.339E+00	0.000E+00	1.845E+01
Xe-133	1.051E+00	0.000E+00	0.000E+00	1.051E+00
Xe-135	8.368E-02	0.000E+00	0.000E+00	8.368E-02
Yb-169	3.700E-04	0.000E+00	0.000E+00	3.700E-04
Y-88	7.060E-03	0.000E+00	0.000E+00	7.060E-03
Y-90	7.300E-04	0.000E+00	3.822E-02	3.895E-02
Y-91	1.805E+01	5.609E+02	0.000E+00	5.789E+02
Zn-65	2.041E+03	2.744E+03	1.449E+01	4.799E+03
Zr-95	2.930E+01	5.516E+02	1.235E+01	5.932E+02
Total	1.788E+04	6.742E+04	6.399E+05	7.252E+05

Table A-4. Richland 1987 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ac-227	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ac-228	5.200E-05	0.000E+00	0.000E+00	5.200E-05
Ag-110m	1.300E+01	4.781E+00	1.432E+00	1.921E+01
Am-241	8.207E-02	1.606E-02	1.240E-01	2.221E-01
Am-243	3.400E-05	0.000E+00	1.000E-06	3.500E-05
Am-244	8.000E-06	0.000E+00	0.000E+00	8.000E-06
Au-193	2.020E-04	0.000E+00	0.000E+00	2.020E-04
Au-195	4.176E-02	0.000E+00	0.000E+00	4.176E-02
Ba-133	1.186E-01	0.000E+00	0.000E+00	1.186E-01
Ba-140	1.175E+00	4.651E+00	3.723E-01	6.199E+00
Be-7	8.948E-03	9.348E+00	0.000E+00	9.357E+00
Bi-207	5.143E-03	0.000E+00	0.000E+00	5.143E-03
Bi-210	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Br-82	4.000E-06	0.000E+00	0.000E+00	4.000E-06
C-14	9.694E+01	1.075E+00	8.546E+00	1.066E+02
Ca-45	8.366E-01	0.000E+00	0.000E+00	8.366E-01
Ca-47	1.140E-04	0.000E+00	0.000E+00	1.140E-04
Cd-109	8.536E+00	0.000E+00	0.000E+00	8.536E+00
Cd-115	1.000E-04	0.000E+00	0.000E+00	1.000E-04
Ce-139	1.700E-05	0.000E+00	0.000E+00	1.700E-05
Ce-141	2.026E-01	5.165E-01	0.000E+00	7.191E-01
Ce-144	3.038E+00	6.400E-01	7.724E-01	4.450E+00
Cl-36	1.518E-01	0.000E+00	0.000E+00	1.518E-01
Cm-242	2.898E-02	4.810E-02	3.418E-02	1.113E-01
Cm-243	2.390E-03	1.983E-02	1.620E-04	2.238E-02
Cm-244	6.752E-03	5.216E-03	4.970E-04	1.247E-02
Co-57	3.322E+00	3.312E+00	0.000E+00	6.634E+00
Co-58	1.035E+02	8.728E+02	9.031E+01	1.067E+03
Co-59	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Co-60	3.449E+02	3.267E+02	6.599E+03	7.270E+03
Cr-51	8.433E+01	1.205E+02	6.570E+00	2.114E+02
Cs-131	1.730E-03	0.000E+00	0.000E+00	1.730E-03
Cs-133	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Cs-134	2.264E+01	3.442E+02	3.647E+01	4.033E+02
Cs-136	4.791E-02	0.000E+00	0.000E+00	4.791E-02
Cs-137	7.499E+01	8.081E+02	1.983E+02	1.081E+03
Cu-64	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Cu-67	1.567E-03	0.000E+00	0.000E+00	1.567E-03
Eu-152	2.908E-02	0.000E+00	0.000E+00	2.908E-02
Eu-154	4.681E-03	0.000E+00	0.000E+00	4.681E-03
Eu-155	4.262E-02	9.060E-03	4.260E-02	9.428E-02
Fe-55	1.677E+02	3.196E+02	4.603E+03	5.090E+03
Fe-59	2.172E+00	9.536E+00	0.000E+00	1.171E+01
Ga-67	6.663E-02	0.000E+00	0.000E+00	6.663E-02
Ga-68	2.700E-04	0.000E+00	0.000E+00	2.700E-04
Gd-153	1.368E-01	0.000E+00	0.000E+00	1.368E-01

Table A-4 (Continued)

Nuclide	Class A	Class B	Class C	Total
Gd-159	3.000E-05	0.000E+00	0.000E+00	3.000E-05
Ge-68	3.452E-02	0.000E+00	0.000E+00	3.452E-02
H-3	1.911E+03	2.699E+04	8.514E+02	2.975E+04
Hf-181	1.738E-01	0.000E+00	0.000E+00	1.738E-01
Hg-203	8.180E-03	0.000E+00	0.000E+00	8.180E-03
I-123	1.970E-01	0.000E+00	0.000E+00	1.970E-01
I-124	2.200E-05	0.000E+00	0.000E+00	2.200E-05
I-125	4.674E+01	0.000E+00	0.000E+00	4.674E+01
I-129	1.876E-01	2.280E-02	9.870E-02	3.091E-01
I-131	3.747E+00	1.986E+01	0.000E+00	2.361E+01
I-132	8.000E-04	0.000E+00	0.000E+00	8.000E-04
I-133	1.013E-01	2.930E-03	0.000E+00	1.043E-01
I-135	1.140E-03	0.000E+00	0.000E+00	1.140E-03
In-111	3.105E-01	0.000E+00	0.000E+00	3.105E-01
In-113m	2.000E-06	0.000E+00	0.000E+00	2.000E-06
In-114	6.600E-05	0.000E+00	0.000E+00	6.600E-05
In-114m	7.491E-03	0.000E+00	0.000E+00	7.491E-03
Ir-192	3.436E-01	0.000E+00	0.000E+00	3.436E-01
K-40	1.600E-05	0.000E+00	0.000E+00	1.600E-05
K-42	1.065E-03	0.000E+00	0.000E+00	1.065E-03
Kr-85	9.522E+00	0.000E+00	0.000E+00	9.522E+00
La-140	1.677E+00	6.125E+00	0.000E+00	7.802E+00
Mn-54	6.049E+01	1.165E+02	3.153E+02	4.923E+02
Mo-99	1.063E-01	0.000E+00	0.000E+00	1.063E-01
Na-22	5.102E-01	0.000E+00	0.000E+00	5.102E-01
Na-24	1.001E-02	0.000E+00	0.000E+00	1.001E-02
Nb-94	1.000E-05	0.000E+00	6.440E-04	6.540E-04
Nb-95	4.616E+01	2.841E-01	1.619E+00	4.807E+01
Nb-97	1.055E-02	0.000E+00	0.000E+00	1.055E-02
Nd-147	4.200E-05	0.000E+00	0.000E+00	4.200E-05
Ni-59	4.740E+00	1.163E-01	5.140E+00	9.996E+00
Ni-63	4.131E+01	1.265E+02	1.700E+02	3.377E+02
Ni-63AM	0.000E+00	0.000E+00	1.676E+02	1.676E+02
Ni-65	6.640E-03	0.000E+00	0.000E+00	6.640E-03
Np-237	1.433E-03	0.000E+00	3.100E-05	1.464E-03
P-32	8.268E+01	0.000E+00	0.000E+00	8.268E+01
P-33	1.774E-02	0.000E+00	0.000E+00	1.774E-02
Pa-233	8.000E-06	0.000E+00	0.000E+00	8.000E-06
Pb-203	1.500E-05	0.000E+00	0.000E+00	1.500E-05
Pb-210	2.783E-02	0.000E+00	0.000E+00	2.783E-02
Pb-212	5.900E-05	0.000E+00	0.000E+00	5.900E-05
Pb-214	2.100E-04	0.000E+00	0.000E+00	2.100E-04
Pm-143	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pm-147	1.997E+01	2.049E-01	5.595E-01	2.073E+01
Po-209	1.100E-05	0.000E+00	0.000E+00	1.100E-05
Po-210	4.717E-02	0.000E+00	0.000E+00	4.717E-02
Pr-143	4.100E-05	0.000E+00	0.000E+00	4.100E-05
Pt-195	4.000E-03	0.000E+00	0.000E+00	4.000E-03

Table A-4 (Continued)

Nuclide	Class A	Class B	Class C	Total
Pu-238	2.273E-02	2.657E-02	3.526E-03	5.282E-02
Pu-239	7.294E-02	2.667E-02	2.924E-02	1.288E-01
Pu-240	2.296E-02	1.260E-03	1.388E-02	3.811E-02
Pu-241	2.912E+00	1.543E+00	1.380E+00	5.835E+00
Pu-242	1.757E-03	0.000E+00	3.100E-05	1.788E-03
Ra-226	3.050E-01	1.505E-03	2.688E+00	2.994E+00
Rb-83	1.900E-02	0.000E+00	0.000E+00	1.900E-02
Rb-86	9.186E-02	0.000E+00	0.000E+00	9.186E-02
Re-184	2.000E-05	0.000E+00	0.000E+00	2.000E-05
Ru-103	1.731E-01	2.760E-04	9.420E-01	1.115E+00
Ru-106	2.196E+00	4.041E-02	1.578E-01	2.394E+00
S-35	8.164E+01	0.000E+00	0.000E+00	8.164E+01
Sb-122	5.700E-05	0.000E+00	0.000E+00	5.700E-05
Sb-124	8.657E+01	6.476E+01	0.000E+00	1.513E+02
Sb-125	4.048E+01	6.145E+00	6.160E-01	4.724E+01
Sc-46	9.517E-02	0.000E+00	0.000E+00	9.517E-02
Sc-47	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Se-75	7.035E-02	0.000E+00	0.000E+00	7.035E-02
Si-32	5.000E-06	0.000E+00	0.000E+00	5.000E-06
Sn-113	1.832E+00	1.525E+00	0.000E+00	3.357E+00
Sn-119	1.613E-02	0.000E+00	0.000E+00	1.613E-02
Sr-85	5.919E-02	0.000E+00	0.000E+00	5.919E-02
Sr-89	5.063E-01	9.475E+00	3.000E-01	1.028E+01
Sr-90	1.827E+01	2.848E+01	6.629E+00	5.338E+01
Sr-91	2.311E-02	0.000E+00	0.000E+00	2.311E-02
Sr-92	5.767E-02	0.000E+00	0.000E+00	5.767E-02
Sr-95	5.660E-04	0.000E+00	0.000E+00	5.660E-04
Ta-182	4.282E-03	0.000E+00	0.000E+00	4.282E-03
Tb-158	3.700E-05	0.000E+00	0.000E+00	3.700E-05
Tb-160	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Tc-99	5.522E-01	4.239E-02	1.333E-01	7.282E-01
Tc-99m	2.853E-01	0.000E+00	0.000E+00	2.853E-01
Te-123m	2.800E-02	0.000E+00	0.000E+00	2.800E-02
Te-125m	9.133E+00	6.400E-01	2.670E-02	9.799E+00
Te-127m	4.200E-05	0.000E+00	0.000E+00	4.200E-05
Te-129m	4.200E-05	0.000E+00	0.000E+00	4.200E-05
Th-228	2.320E-04	0.000E+00	0.000E+00	2.320E-04
Th-229	4.000E-06	0.000E+00	0.000E+00	4.000E-06
Th-230	1.400E-04	0.000E+00	0.000E+00	1.400E-04
Th-232	7.452E-02	0.000E+00	0.000E+00	7.452E-02
Th-NAT	1.035E+01	0.000E+00	0.000E+00	1.035E+01
Tl-201	7.440E-02	0.000E+00	0.000E+00	7.440E-02
Tl-202	2.234E-03	0.000E+00	0.000E+00	2.234E-03
Tl-204	8.710E-03	0.000E+00	0.000E+00	8.710E-03
Tl-208	7.700E-05	0.000E+00	0.000E+00	7.700E-05
U-232	0.000E+00	0.000E+00	2.000E-06	2.000E-06
U-233	0.000E+00	0.000E+00	2.000E-06	2.000E-06
U-234	2.009E-02	5.800E-05	6.440E-04	2.079E-02



Table A-4 (Continued)

Nuclide	Class A	Class B	Class C	Total
U-235	6.593E-02	8.000E-06	3.500E-05	6.597E-02
U-236	7.800E-05	0.000E+00	2.000E-06	8.000E-05
U-238	2.858E+01	1.800E-05	1.280E-04	2.858E+01
U-DEP	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-NAT	2.850E+00	0.000E+00	0.000E+00	2.850E+00
Xe-127	4.688E-03	0.000E+00	0.000E+00	4.688E-03
Xe-131m	4.331E-03	0.000E+00	0.000E+00	4.331E-03
Xe-133	1.104E-01	0.000E+00	0.000E+00	1.104E-01
Y-88	4.060E-04	0.000E+00	0.000E+00	4.060E-04
Y-90	2.792E-02	0.000E+00	0.000E+00	2.792E-02
Y-91	4.300E-05	0.000E+00	0.000E+00	4.300E-05
Yb-169	7.917E-03	0.000E+00	0.000E+00	7.917E-03
Zn-65	7.152E+02	3.260E+01	0.000E+00	7.478E+02
Zr-88	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Zr-89	1.010E-02	0.000E+00	0.000E+00	1.010E-02
Zr-95	2.572E+01	2.093E-01	6.350E-01	2.656E+01
Zr-97	1.545E-03	0.000E+00	0.000E+00	1.545E-03
Total	4.187E+03	3.023E+04	1.307E+04	4.748E+04

Table A-5. Richland 1988 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ag-108	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ag-108m	1.012E-02	0.000E+00	0.000E+00	1.012E-02
Ag-110	3.080E-04	0.000E+00	0.000E+00	8.080E-04
Ag-110m	2.115E+01	4.892E+01	3.693E+01	1.070E+02
Am-241	1.709E-01	3.551E-03	9.833E-02	2.728E-01
Am-247	7.300E-05	0.000E+00	0.000E+00	7.300E-05
As-73	9.090E-04	0.000E+00	0.000E+00	9.090E-04
Au-195	1.425E-03	0.000E+00	0.000E+00	1.425E-03
Ba-133	3.561E-02	0.000E+00	0.000E+00	3.561E-02
Ba-140	4.005E-01	5.000E-06	0.000E+00	4.005E-01
Be-7	1.415E-02	0.000E+00	2.079E-01	2.220E-01
Bi-205	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Bi-207	4.570E-04	0.000E+00	0.000E+00	4.570E-04
Bi-210	1.400E-05	0.000E+00	0.000E+00	1.400E-05
C-14	8.349E+01	1.497E+00	5.107E+00	9.009E+01
Ca-45	1.204E+00	0.000E+00	0.000E+00	1.204E+00
Ca-47	2.620E-04	0.000E+00	0.000E+00	2.620E-04
Cd-107	1.100E-05	0.000E+00	0.000E+00	1.100E-05
Cd-109	2.339E-01	0.000E+00	0.000E+00	2.339E-01
Cd-115	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ce-139	6.300E-05	0.000E+00	0.000E+00	6.300E-05
Ce-141	5.620E-01	0.000E+00	2.666E-02	5.887E-01
Ce-144	2.192E+00	1.452E+00	4.618E+00	8.262E+00
Cf-252	8.460E-04	0.000E+00	0.000E+00	8.460E-04
Cl-36	3.254E-01	0.000E+00	0.000E+00	3.254E-01
Cm-242	2.314E-02	1.462E-03	4.556E-03	2.916E-02
Cm-243	3.850E-04	8.000E-06	6.000E-06	3.990E-04
Cm-244	1.896E-03	6.620E-04	1.542E-03	4.100E-03
Co-56	7.950E-04	0.000E+00	0.000E+00	7.950E-04
Co-57	2.015E+00	7.797E-01	4.280E-01	3.223E+00
Co-58	1.057E+02	1.448E+02	1.079E+02	3.583E+02
Co-60	3.908E+02	1.806E+02	1.973E+02	7.687E+02
Cr-51	1.290E+02	2.507E+00	8.064E+00	1.396E+02
Cs-134	3.248E+01	2.951E+02	7.748E+02	1.102E+03
Cs-136	3.532E-02	5.000E-06	0.000E+00	3.533E-02
Cs-137	6.062E+01	5.465E+02	2.148E+03	2.755E+03
Cs-144	2.469E-03	0.000E+00	0.000E+00	2.469E-03
Cu-64	1.100E-05	0.000E+00	0.000E+00	1.100E-05
Cu-67	1.600E-05	0.000E+00	0.000E+00	1.600E-05
Dy-165	1.000E-04	0.000E+00	0.000E+00	1.000E-04
Eu-152	1.014E-01	0.000E+00	0.000E+00	1.014E-01
Eu-154	1.961E-02	0.000E+00	0.000E+00	1.961E-02



Table A-5 (Continued)

Nuclide	Class A	Class B	Class C	Total
Eu-155	4.344E-02	4.510E-03	1.043E-01	1.522E-01
Fe-55	3.287E+02	2.754E+02	2.254E+02	8.294E+02
Fe-59	7.912E+00	4.440E-02	4.019E-01	8.358E+00
Ga-67	6.697E-02	0.000E+00	0.000E+00	6.697E-02
Ga-68	1.013E-03	0.000E+00	0.000E+00	1.013E-03
Gd-153	1.510E-01	0.000E+00	0.000E+00	1.510E-01
Ge-68	2.493E-02	0.000E+00	0.000E+00	2.493E-02
H-3	2.396E+03	2.083E+04	2.215E+00	2.323E+04
Hf-181	5.997E-02	5.760E-03	0.000E+00	6.473E-02
Hg-203	1.025E-02	0.000E+00	0.000E+00	1.025E-02
I-121	4.000E-06	0.000E+00	0.000E+00	4.000E-06
I-123	3.206E-02	0.000E+00	0.000E+00	3.206E-02
I-125	4.137E+01	0.000E+00	0.000E+00	4.137E+01
I-126	5.000E-06	0.000E+00	0.000E+00	5.000E-06
I-129	2.932E-02	3.054E-03	1.803E-02	5.040E-02
I-131	2.664E+00	6.657E+00	3.520E+00	1.284E+01
I-133	2.000E-03	0.000E+00	0.000E+00	2.000E-03
I-137	4.000E-04	0.000E+00	0.000E+00	4.000E-04
In-111	1.560E-01	0.000E+00	0.000E+00	1.560E-01
In-113	8.000E-06	0.000E+00	0.000E+00	8.000E-06
In-114	2.996E-03	0.000E+00	0.000E+00	2.996E-03
In-114m	1.679E-03	0.000E+00	0.000E+00	1.679E-03
Ir-192	9.779E-02	0.000E+00	0.000E+00	9.779E-02
K-40	8.500E-05	0.000E+00	0.000E+00	8.500E-05
K-42	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Kr-85	5.292E+00	0.000E+00	0.000E+00	5.292E+00
La-140	5.002E-01	6.000E-06	5.920E-01	1.092E+00
Mn-54	8.833E+01	3.557E+01	4.954E+01	1.734E+02
Mn-57	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Mo-99	7.773E-03	0.000E+00	0.000E+00	7.773E-03
Na-22	6.055E-01	0.000E+00	0.000E+00	6.055E-01
Na-24	3.413E-02	0.000E+00	0.000E+00	3.413E-02
Nb-88	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Nb-93	4.000E-06	0.000E+00	0.000E+00	4.000E-06
Nb-94	3.960E-03	0.000E+00	0.000E+00	3.960E-03
Nb-95	1.944E+01	5.383E+00	5.413E+00	3.024E+01
Ni-59	5.679E-02	2.170E-01	3.485E-02	3.086E-01
Ni-63	3.103E+01	5.994E+01	1.650E+02	2.559E+02
P-32	7.304E+01	0.000E+00	0.000E+00	7.304E+01
P-33	4.681E-03	0.000E+00	0.000E+00	4.681E-03
Pa-233	7.000E-06	0.000E+00	0.000E+00	7.000E-06
Pa-234	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pb-203	2.000E-06	0.000E+00	0.000E+00	2.000E-06

Table A-5 (Continued)

Nuclide	Class A	Class B	Class C	Total
Pb-210	1.898E-02	0.000E+00	0.000E+00	1.898E-02
Pb-212	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Pm-145	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pm-147	6.654E+00	1.627E-01	1.533E+02	1.601E+02
Po-208	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Po-210	7.878E-01	0.000E+00	0.000E+00	7.878E-01
Pt-193	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pu-236	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Pu-238	8.981E-03	1.307E-03	1.323E-02	2.352E-02
Pu-239	2.899E-02	4.814E-03	7.914E-02	1.129E-01
Pu-240	8.445E-03	1.140E-03	2.211E-02	3.169E-02
Pu-241	8.478E-01	2.209E-01	2.440E+00	3.508E+00
Pu-242	6.370E-04	1.900E-03	1.500E-05	2.552E-03
Ra-224	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Ra-226	1.689E-01	1.600E-05	5.754E-01	7.443E-01
Ra-228	1.400E-05	0.000E+00	0.000E+00	1.400E-05
Rb-83	1.836E-02	0.000E+00	0.000E+00	1.836E-02
Rb-86	1.245E-01	0.000E+00	0.000E+00	1.245E-01
Re-187	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Rh-106	1.300E-04	0.000E+00	0.000E+00	1.300E-04
Ru-103	4.961E-02	8.000E-06	8.230E-04	5.048E-02
Ru-106	1.285E+00	1.844E-02	7.861E+00	9.165E+00
S-35	1.009E+02	0.000E+00	0.000E+00	1.009E+02
Sb-122	4.570E-04	0.000E+00	0.000E+00	4.570E-04
Sb-124	1.276E+01	6.931E+01	1.130E+00	8.320E+01
Sb-125	1.758E+01	4.961E+00	5.725E+00	2.826E+01
Sc-46	1.416E-01	0.000E+00	0.000E+00	1.416E-01
Sc-47	5.000E-06	0.000E+00	0.000E+00	5.000E-06
Sc-50	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Se-75	2.888E-02	0.000E+00	0.000E+00	2.888E-02
Sm-145	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Sn-113	7.326E-01	6.708E-01	2.562E-02	1.429E+00
Sn-119	4.501E-03	0.000E+00	0.000E+00	4.501E-03
Sn-119m	1.859E-01	0.000E+00	0.000E+00	1.859E-01
Sr-81	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Sr-85	6.044E-02	0.000E+00	0.000E+00	6.044E-02
Sr-89	1.186E-01	5.531E-01	2.381E+00	3.053E+00
Sr-90	1.320E+01	3.480E+02	7.146E+02	1.076E+03
Sr-92	5.420E-03	0.000E+00	0.000E+00	5.420E-03
Ta-182	1.567E-03	0.000E+00	0.000E+00	1.567E-03
Tc-99	6.227E-01	2.442E-02	4.251E-01	1.072E+00
Tc-99m	1.467E+00	0.000E+00	0.000E+00	1.467E+00
Te-123	1.602E-02	0.000E+00	0.000E+00	1.602E-02
Te-123m	4.000E-02	0.000E+00	0.000E+00	4.000E-02
Te-125	4.954E-03	0.000E+00	0.000E+00	4.954E-03
Te-125m	4.528E+00	7.171E-01	8.200E-01	6.065E+00

Table A-5 (Continued)

Nuclide	Class A	Class B	Class C	Total
Th-228	8.920E-04	0.000E+00	0.000E+00	8.920E-04
Th-229	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Th-230	4.300E-05	1.000E-06	0.000E+00	4.400E-05
Th-232	5.014E-01	0.000E+00	0.000E+00	5.014E-01
Th-NAT	2.150E+01	0.000E+00	0.000E+00	2.150E+01
Tl-201	3.845E-01	0.000E+00	0.000E+00	3.845E-01
Tl-202	3.120E-03	0.000E+00	0.000E+00	3.120E-03
Tl-204	5.584E-03	0.000E+00	0.000E+00	5.584E-03
Tl-208	4.000E-06	0.000E+00	0.000E+00	4.000E-06
Tl-210	2.000E-06	0.000E+00	0.000E+00	2.000E-06
U-232	4.010E-04	0.000E+00	0.000E+00	4.010E-04
U-233	3.000E-06	0.000E+00	0.000E+00	3.000E-06
U-234	7.820E-04	2.200E-05	7.140E-04	1.518E-03
U-235	6.345E-02	1.100E-05	4.605E-03	6.807E-02
U-236	2.000E-06	0.000E+00	0.000E+00	2.000E-06
U-238	1.396E+01	1.500E-05	2.310E-04	1.396E+01
U-NAT	3.297E+00	0.000E+00	0.000E+00	3.297E+00
W-181	1.000E-06	0.000E+00	0.000E+00	1.000E-06
W-188	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Xe-127	1.326E-02	0.000E+00	0.000E+00	1.326E-02
Xe-131	8.160E-02	3.900E-05	0.000E+00	8.164E-02
Xe-131m	1.822E-02	1.520E-04	1.410E-02	3.248E-02
Xe-133	8.227E-01	0.000E+00	0.000E+00	8.227E-01
Y-88	3.367E-03	0.000E+00	0.000E+00	3.367E-03
Y-90	1.505E-02	0.000E+00	0.000E+00	1.505E-02
Yb-169	2.890E-04	0.000E+00	0.000E+00	2.890E-04
Zr-85	4.087E+02	1.286E+02	3.022E+02	5.374E+02
Zr-85	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Zr-89	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Zr-95	1.171E+01	2.653E+00	2.791E+00	1.715E+01
Zr-97	6.000E-05	0.000E+00	0.000E+00	6.000E-05
Total	4.450E+03	2.299E+04	4.628E+03	3.207E+04

Table A-6. Richland 1989 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ag-105	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Ag-108m	0.000E+00	0.000E+00	1.000E-03	1.000E-03
Ag-110	1.410E+00	0.000E+00	0.000E+00	1.410E+00
Ag-110m	8.380E+00	1.790E-01	8.519E+00	1.708E+01
Am-241	3.367E-02	9.560E-04	6.701E-02	1.016E-01
Am-243	7.100E-05	0.000E+00	0.000E+00	7.100E-05
As-73	5.300E-04	0.000E+00	0.000E+00	5.300E-04
Au-195	7.280E-03	0.000E+00	0.000E+00	7.280E-03
Ba-133	3.297E-02	0.000E+00	0.000E+00	3.297E-02
Ba-140	2.512E-01	2.960E-01	1.290E-02	5.601E-01
Be-7	1.810E+00	0.000E+00	2.915E-01	2.101E+00
Bi-204	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Bi-205	1.400E-05	0.000E+00	0.000E+00	1.400E-05
Bi-206	2.500E-05	0.000E+00	0.000E+00	2.500E-05
Bi-207	1.112E-03	0.000E+00	0.000E+00	1.112E-03
Bi-210	3.400E-05	0.000E+00	0.000E+00	3.400E-05
Br-82	2.000E-06	0.000E+00	0.000E+00	2.000E-06
C-14	1.309E+02	2.203E+00	7.789E+01	2.110E+02
C-15	6.000E-05	0.000E+00	0.000E+00	6.000E-05
Ca-45	2.289E+00	0.000E+00	0.000E+00	2.289E+00
Ca-47	1.950E-04	0.000E+00	0.000E+00	1.950E-04
Cd-109	3.161E-01	0.000E+00	0.000E+00	3.161E-01
Cd-113m	1.113E-01	0.000E+00	0.000E+00	1.113E-01
Cd-115	1.400E-05	0.000E+00	0.000E+00	1.400E-05
Ce-134	7.600E-05	0.000E+00	0.000E+00	7.600E-05
Ce-137	2.793E-03	0.000E+00	0.000E+00	2.793E-03
Ce-139	2.520E-04	0.000E+00	0.000E+00	2.520E-04
Ce-141	5.406E-01	2.500E-03	6.510E-02	6.092E-01
Ce-144	1.897E+00	3.062E-02	1.492E+01	1.685E+01
Ce-147	1.700E-04	0.000E+00	0.000E+00	1.700E-04
Cf-252	9.000E-06	0.000E+00	0.000E+00	9.000E-06
Cl-36	2.642E-01	0.000E+00	0.000E+00	2.642E-01
Cm-241	2.100E-05	0.000E+00	0.000E+00	2.100E-05
Cm-242	6.939E-03	3.618E-02	4.616E-02	8.928E-02
Cm-243	1.128E-03	3.100E-05	4.598E-03	5.757E-03
Cm-244	1.888E-03	1.067E-03	4.900E-05	3.004E-03
Co-56	1.093E-03	0.000E+00	0.000E+00	1.093E-03
Co-57	1.939E+00	1.669E+00	2.121E+00	5.729E+00
Co-58	1.023E+02	1.683E+02	1.728E+02	4.434E+02
Co-60	6.564E+02	3.817E+02	7.456E+03	8.494E+03
Cr-51	5.349E+02	3.026E+01	4.400E+02	1.005E+03
Cr-56	7.000E-06	0.000E+00	0.000E+00	7.000E-06
Cs-127	2.064E-02	0.000E+00	0.000E+00	2.064E-02
Cs-134	2.842E+01	8.008E+02	2.028E+02	1.032E+03
Cs-136	3.019E-01	2.650E-01	1.169E-02	5.785E-01



Table A-6 (Continued)

Nuclide	Class A	Class B	Class C	Total
Cs-137	5.002E+01	1.478E+03	3.209E+03	4.738E+03
Cs-139	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Cs-141	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Cs-144	1.569E-03	0.000E+00	2.930E-03	4.499E-03
Cu-64	7.000E-06	0.000E+00	0.000E+00	7.000E-06
Cu-67	3.206E-03	0.000E+00	0.000E+00	3.206E-03
Dy-159	3.930E-04	0.000E+00	0.000E+00	3.930E-04
Dy-165	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Eu-151	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Eu-152	1.984E-02	0.000E+00	0.000E+00	1.984E-02
Eu-154	6.932E-03	0.000E+00	0.000E+00	6.932E-03
Eu-155	6.799E-03	0.000E+00	2.622E-02	3.302E-02
Fe-53	2.000E-04	0.000E+00	0.000E+00	2.000E-04
Fe-55	1.080E+03	2.855E+02	1.350E+04	1.486E+04
Fe-59	3.531E+01	2.534E+00	1.383E+00	3.923E+01
Ga-67	2.124E-01	0.000E+00	0.000E+00	2.124E-01
Ga-68	7.008E-03	0.000E+00	0.000E+00	7.008E-03
Gd-153	2.607E-01	0.000E+00	0.000E+00	2.607E-01
Ge-68	8.424E-02	0.000E+00	0.000E+00	8.424E-02
H-3	2.714E+03	5.590E+04	1.503E+02	5.876E+04
Hf-175	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Hf-181	5.350E-04	0.000E+00	0.000E+00	5.350E-04
Hg-203	3.663E-02	0.000E+00	0.000E+00	3.663E-02
I-121	3.664E-03	0.000E+00	0.000E+00	3.664E-03
I-123	1.852E-01	0.000E+00	0.000E+00	1.852E-01
I-124	2.601E-02	0.000E+00	0.000E+00	2.601E-02
I-125	5.376E+01	0.000E+00	0.000E+00	5.376E+01
I-128	1.760E-03	0.000E+00	0.000E+00	1.760E-03
I-129	5.073E-02	3.371E-03	1.456E-02	6.867E-02
I-131	2.600E+00	1.230E+00	2.220E-02	3.852E+00
I-133	1.045E-02	0.000E+00	0.000E+00	1.045E-02
In-111	3.125E-01	0.000E+00	0.000E+00	3.125E-01
In-113	7.200E-05	0.000E+00	0.000E+00	7.200E-05
In-114	5.667E-03	0.000E+00	0.000E+00	5.667E-03
In-114m	2.327E-02	0.000E+00	0.000E+00	2.327E-02
Ir-192	1.217E-03	0.000E+00	0.000E+00	1.217E-03
K-40	2.700E-05	0.000E+00	0.000E+00	2.700E-05
Kr-85	6.560E+01	0.000E+00	0.000E+00	6.560E+01
La-140	2.802E-01	3.410E-01	0.000E+00	6.212E-01
Mn-51	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Mn-54	2.247E+02	7.035E+01	4.092E+02	7.042E+02
Mo-99	1.512E-02	0.000E+00	0.000E+00	1.512E-02
Na-22	6.739E-01	0.000E+00	0.000E+00	6.739E-01
Na-24	1.500E-05	0.000E+00	0.000E+00	1.500E-05
Nb-94	1.046E-02	0.000E+00	1.300E-02	2.346E-02
Nb-95	5.732E+01	1.452E+01	5.662E+00	7.751E+01
Nb-96	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Nb-97	4.958E-02	0.000E+00	0.000E+00	4.958E-02



Table A-6 (Continued)

Nuclide	Class A	Class B	Class C	Total
Nd-144	4.000E-05	0.000E+00	0.000E+00	4.000E-05
Ni-59	3.502E-02	1.473E+00	6.558E+00	8.066E+00
Ni-63	4.327E+01	2.514E+02	1.213E+03	1.518E+03
Ni-63AM	2.950E+00	0.000E+00	0.000E+00	2.950E+00
Ni-65	7.622E-01	0.000E+00	0.000E+00	7.622E-01
Np-237	6.290E-04	3.000E-06	0.000E+00	6.320E-04
Np-239	0.000E+00	1.290E-02	0.000E+00	1.290E-02
P-32	5.393E+01	0.000E+00	0.000E+00	5.393E+01
P-33	4.237E-03	0.000E+00	0.000E+00	4.237E-03
Pa-231	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Pb-206	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Pb-210	7.789E-02	0.000E+00	0.000E+00	7.789E-02
Pm-147	2.735E+00	0.000E+00	6.869E+02	6.896E+02
Po-208	3.200E-05	0.000E+00	0.000E+00	3.200E-05
Po-209	1.100E-05	0.000E+00	0.000E+00	1.100E-05
Po-210	3.161E+00	0.000E+00	0.000E+00	3.161E+00
Pt-193	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pu-236	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Pu-238	6.016E-03	2.489E-03	3.747E-02	4.597E-02
Pu-239	1.398E-02	3.893E-03	9.838E-02	1.163E-01
Pu-240	3.779E-03	3.800E-04	3.041E-02	3.456E-02
Pu-241	6.001E-01	6.125E-01	2.861E+00	4.074E+00
Pu-242	7.610E-04	3.000E-06	1.400E-05	7.780E-04
Ra-226	4.005E-01	1.459E-03	5.122E-01	9.142E-01
Ra-228	6.973E-03	0.000E+00	0.000E+00	6.973E-03
Rb-83	4.200E-02	0.000E+00	0.000E+00	4.200E-02
Rb-86	1.706E-01	0.000E+00	0.000E+00	1.706E-01
Rb-95	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Re-187	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Rh-101	1.000E-03	0.000E+00	0.000E+00	1.000E-03
Rh-103	1.000E-03	0.000E+00	0.000E+00	1.000E-03
Rh-106	1.653E-01	0.000E+00	0.000E+00	1.653E-01
Ru-103	7.104E-01	6.300E-04	1.407E-01	8.517E-01
Ru-106	5.690E-01	2.770E-03	2.492E+01	2.549E+01
S-35	2.703E+02	0.000E+00	0.000E+00	2.703E+02
Sb-122	3.468E-03	0.000E+00	0.000E+00	3.468E-03
Sb-124	7.559E+00	4.875E+01	4.517E+00	6.083E+01
Sb-125	5.036E+00	7.321E+00	1.558E+01	2.794E+01
Sb-126	8.000E-05	0.000E+00	0.000E+00	8.000E-05
Sc-41	1.080E-04	0.000E+00	0.000E+00	1.080E-04
Sc-46	5.793E-01	0.000E+00	0.000E+00	5.793E-01
Sc-47	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Sc-50	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Se-75	2.428E+00	0.000E+00	0.000E+00	2.428E+00
Sm-151	1.489E+00	0.000E+00	0.000E+00	1.489E+00
Sm-153	3.141E-02	0.000E+00	0.000E+00	3.141E-02
Sn-111	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Sn-113	2.634E+00	2.360E-01	2.637E-02	2.896E+00

Table A-6 (Continued)

Nuclide	Class A	Class B	Class C	Total
Sn-117	7.600E-05	0.000E+00	0.000E+00	7.600E-05
Sn-117m	1.000E-04	0.000E+00	0.000E+00	1.000E-04
Sn-119	1.310E-03	0.000E+00	0.000E+00	1.310E-03
Sn-119m	5.883E-03	0.000E+00	0.000E+00	5.883E-03
Sr-85	6.201E-01	0.000E+00	0.000E+00	6.201E-01
Sr-89	6.077E-01	1.061E+00	5.727E-01	2.241E+00
Sr-90	1.690E+00	4.002E+00	5.142E+03	5.148E+03
Sr-92	9.197E-02	0.000E+00	0.000E+00	9.197E-02
Sr-95	1.632E-03	0.000E+00	0.000E+00	1.632E-03
Ta-179	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Ta-182	1.722E-03	0.000E+00	0.000E+00	1.722E-03
Tb-157	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Tb-158	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Tc-99	1.035E+00	1.539E-02	1.707E+00	2.758E+00
Tc-99m	1.079E+00	0.000E+00	0.000E+00	1.079E+00
Te-123	3.998E-02	0.000E+00	0.000E+00	3.998E-02
Te-123m	2.000E-02	0.000E+00	0.000E+00	2.000E-02
Te-125m	1.369E+00	5.100E-02	2.941E+00	4.361E+00
Te-132	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Th-227	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Th-228	7.627E-03	0.000E+00	2.300E-05	7.650E-03
Th-229	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Th-230	5.590E-04	0.000E+00	0.000E+00	5.590E-04
Th-232	1.027E-01	0.000E+00	0.000E+00	1.027E-01
Th-NAT	7.912E+00	0.000E+00	0.000E+00	7.912E+00
Tl-201	1.773E-01	0.000E+00	0.000E+00	1.773E-01
Tl-202	8.973E-03	0.000E+00	0.000E+00	8.973E-03
Tl-204	7.132E-03	0.000E+00	0.000E+00	7.132E-03
Tm-170	1.000E-05	0.000E+00	0.000E+00	1.000E-05
U-232	1.000E-06	0.000E+00	0.000E+00	1.000E-06
U-233	2.177E-02	0.000E+00	0.000E+00	2.177E-02
U-234	8.737E-01	0.000E+00	2.890E-04	8.740E-01
U-235	2.923E-01	0.000E+00	3.800E-05	2.923E-01
U-236	3.600E-05	0.000E+00	0.000E+00	3.600E-05
U-238	1.156E+01	0.000E+00	5.020E-04	1.156E+01
U-DEP	3.724E-02	0.000E+00	0.000E+00	3.724E-02
U-NAT	4.165E+00	0.000E+00	0.000E+00	4.165E+00
W-181	3.000E-05	0.000E+00	0.000E+00	3.000E-05
W-188	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Xe-127	7.448E-03	0.000E+00	0.000E+00	7.448E-03
Xe-131m	6.446E-03	2.060E-02	0.000E+00	2.705E-02
Xe-133	2.008E-01	0.000E+00	0.000E+00	2.008E-01
Y-88	2.967E-03	0.000E+00	0.000E+00	2.967E-03
Y-90	1.469E-02	0.000E+00	0.000E+00	1.469E-02
Yb-169	2.160E-04	0.000E+00	0.000E+00	2.160E-04
Zn-63	1.000E-03	0.000E+00	0.000E+00	1.000E-03
Zn-65	3.017E+02	3.335E+02	4.772E-02	6.353E+02
Zr-90	9.300E-04	0.000E+00	0.000E+00	9.300E-04

Table A-6 (Continued)

<u>Nuclide</u>	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Zr-95	1.105E+01	8.967E+00	3.252E+00	2.326E+01
Zr-97	4.958E-02	0.000E+00	0.000E+00	4.958E-02
Total	6.503E+03	5.980E+04	3.276E+04	9.906E+04

Table A-7. Beatty 1987 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ac-227	7.780E-04	0.000E+00	0.000E+00	7.780E-04
Ag-105	5.110E-04	0.000E+00	0.000E+00	5.110E-04
Ag-108m	7.247E-01	0.000E+00	0.000E+00	7.247E-01
Ag-110m	1.156E+00	1.659E+00	0.000E+00	2.815E+00
Al-26	4.000E-05	0.000E+00	0.000E+00	4.000E-05
Am-241	1.062E-01	1.320E-04	0.000E+00	1.063E-01
Am-243	1.320E-03	0.000E+00	0.000E+00	1.320E-03
Au-195	1.103E-01	0.000E+00	0.000E+00	1.103E-01
Ba-133	4.703E-03	2.120E-04	0.000E+00	4.915E-03
Ba-140	5.794E-03	1.794E-03	0.000E+00	7.588E-03
Be-7	4.500E-05	0.000E+00	0.000E+00	4.500E-05
Bi-207	1.059E-03	0.000E+00	0.000E+00	1.059E-03
C-14	2.343E+01	2.099E-01	2.500E-04	2.364E+01
Ca-45	3.165E-01	0.000E+00	0.000E+00	3.165E-01
Ca-47	2.800E-05	0.000E+00	0.000E+00	2.800E-05
Cd-109	2.745E-01	0.000E+00	0.000E+00	2.745E-01
Ce-139	8.000E-06	0.000E+00	0.000E+00	8.000E-06
Ce-141	3.551E-02	0.000E+00	0.000E+00	3.551E-02
Ce-144	4.809E-01	1.350E-03	0.000E+00	4.823E-01
Cf-252	1.810E-04	0.000E+00	0.000E+00	1.810E-04
Cl-32	2.040E-04	0.000E+00	0.000E+00	2.040E-04
Cl-36	5.741E-02	0.000E+00	0.000E+00	5.741E-02
Cm-241	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Cm-242	1.461E-03	7.400E-05	0.000E+00	1.535E-03
Cm-243	1.504E-03	0.000E+00	0.000E+00	1.504E-03
Cm-244	1.410E-02	1.000E-05	0.000E+00	1.411E-02
Co-56	7.020E-04	0.000E+00	0.000E+00	7.020E-04
Co-57	1.325E+00	1.576E-02	0.000E+00	1.340E+00
Co-58	1.447E+02	1.421E+01	0.000E+00	1.589E+02
Co-60	3.522E+02	1.367E+03	8.590E+01	1.806E+03
Cr-51	1.481E+02	3.792E+01	0.000E+00	1.860E+02
Cs-134	6.814E+00	1.469E+01	0.000E+00	2.150E+01
Cs-137	2.236E+01	8.193E+01	5.452E+01	1.588E+02
Cu-64	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Cu-67	1.760E-04	0.000E+00	0.000E+00	1.760E-04
Eu-152	1.015E-02	0.000E+00	0.000E+00	1.015E-02
Eu-154	6.685E-01	0.000E+00	0.000E+00	6.685E-01
Eu-155	6.977E-01	0.000E+00	0.000E+00	6.977E-01
Eu-157	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Fe-55	5.105E+02	7.696E+00	0.000E+00	5.182E+02
Fe-57	7.000E-06	0.000E+00	0.000E+00	7.000E-06
Fe-59	2.378E+01	0.000E+00	0.000E+00	2.378E+01
Ga-67	7.199E-03	0.000E+00	0.000E+00	7.199E-03
Gd-153	7.925E-02	0.000E+00	0.000E+00	7.925E-02
Ge-68	1.253E-02	0.000E+00	0.000E+00	1.253E-02

Table A-7 (Continued)

Nuclide	Class A	Class B	Class C	Total
H-3	6.639E+02	7.013E+03	8.250E-01	7.678E+03
Hf-175	6.730E-04	0.000E+00	0.000E+00	6.730E-04
Hg-203	1.710E-04	0.000E+00	0.000E+00	1.710E-04
Ho-166	1.000E-06	0.000E+00	0.000E+00	1.000E-06
I-123	1.000E-05	0.000E+00	0.000E+00	1.000E-05
I-125	3.357E+01	0.000E+00	0.000E+00	3.357E+01
I-129	1.404E-02	5.500E-05	0.000E+00	1.409E-02
I-131	1.319E+00	0.000E+00	0.000E+00	1.319E+00
In-111	1.170E-02	0.000E+00	0.000E+00	1.170E-02
In-114	1.955E-03	0.000E+00	0.000E+00	1.955E-03
Ir-192	1.242E+00	0.000E+00	0.000E+00	1.242E+00
Kr-85	1.643E+00	4.610E-01	0.000E+00	2.104E+00
La-140	6.932E-03	1.794E-03	0.000E+00	8.726E-03
Mn-54	2.430E+02	2.189E+01	0.000E+00	2.649E+02
Mo-99	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Na-20	3.000E-05	0.000E+00	0.000E+00	3.000E-05
Na-22	7.478E-01	0.000E+00	0.000E+00	7.478E-01
Nb-94	2.420E-03	0.000E+00	0.000E+00	2.420E-03
Nb-95	9.392E-01	1.460E-01	0.000E+00	1.085E+00
Ni-59	5.839E-02	0.000E+00	0.000E+00	5.839E-02
Ni-63	1.505E+01	5.668E+00	0.000E+00	2.072E+01
Np-237	1.100E-04	0.000E+00	0.000E+00	1.100E-04
Os-191	1.000E-04	0.000E+00	0.000E+00	1.000E-04
P-32	6.901E+00	0.000E+00	0.000E+00	6.901E+00
P-33	2.540E-04	0.000E+00	0.000E+00	2.540E-04
Pa-231	4.000E-06	0.000E+00	0.000E+00	4.000E-06
Pb-203	3.900E-04	0.000E+00	0.000E+00	3.900E-04
Pb-210	8.500E-05	0.000E+00	0.000E+00	8.500E-05
Pm-147	4.408E-02	0.000E+00	0.000E+00	4.408E-02
Po-210	2.312E-02	0.000E+00	0.000E+00	2.312E-02
Pt-193	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pt-195m	1.307E-02	0.000E+00	0.000E+00	1.307E-02
Pu-238	9.053E-03	3.100E-05	0.000E+00	9.084E-03
Pu-239	4.312E-02	2.900E-05	0.000E+00	4.315E-02
Pu-240	4.215E-03	0.000E+00	0.000E+00	4.215E-03
Pu-241	2.342E-01	3.941E-03	0.000E+00	2.382E-01
Pu-242	1.913E-03	0.000E+00	0.000E+00	1.913E-03
Ra-226	3.937E+00	1.040E-02	0.000E+00	3.947E+00
Rb-86	2.163E-02	0.000E+00	0.000E+00	2.163E-02
Ru-103	5.643E-03	0.000E+00	0.000E+00	5.643E-03
Ru-106	2.155E-02	0.000E+00	0.000E+00	2.155E-02
S-35	7.388E+00	0.000E+00	0.000E+00	7.388E+00
Sb-124	6.759E+00	0.000E+00	0.000E+00	6.759E+00
Sb-125	8.814E-02	2.780E-02	0.000E+00	1.159E-01
Sc-46	6.069E-02	0.000E+00	0.000E+00	6.069E-02
Sc-47	1.000E-03	0.000E+00	0.000E+00	1.000E-03
Se-75	4.936E-02	0.000E+00	0.000E+00	4.936E-02
Sm-151	1.897E-03	0.000E+00	0.000E+00	1.897E-03



Table A-7 (Continued)

Nuclide	Class A	Class B	Class C	Total
Sn-113	2.603E-02	0.000E+00	0.000E+00	2.603E-02
Sn-131	9.000E-06	0.000E+00	0.000E+00	9.000E-06
Sr-85	6.418E-02	0.000E+00	0.000E+00	6.418E-02
Sr-86	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Sr-89	8.801E-02	0.000E+00	0.000E+00	8.801E-02
Sr-90	2.640E-01	2.291E+01	1.412E+01	3.730E+01
Sr-91	5.511E-02	0.000E+00	0.000E+00	5.511E-02
Ta-181	9.992E-03	0.000E+00	0.000E+00	9.992E-03
Ta-182	1.374E-02	0.000E+00	0.000E+00	1.374E-02
Tc-99	2.791E-01	7.500E-05	0.000E+00	2.792E-01
Tc-99m	3.280E-03	0.000E+00	0.000E+00	3.280E-03
Te-123	2.875E-02	0.000E+00	0.000E+00	2.875E-02
Te-125m	0.000E+00	6.740E-03	0.000E+00	6.740E-03
Th-228	2.710E-04	0.000E+00	0.000E+00	2.710E-04
Th-230	1.100E-05	0.000E+00	0.000E+00	1.100E-05
Th-232	1.553E-02	0.000E+00	0.000E+00	1.553E-02
Th-NAT	6.636E-02	0.000E+00	0.000E+00	6.636E-02
Tl-201	4.591E-01	0.000E+00	0.000E+00	4.591E-01
Tl-204	1.833E-03	0.000E+00	0.000E+00	1.833E-03
U-233	4.984E-03	0.000E+00	0.000E+00	4.984E-03
U-234	1.106E+00	0.000E+00	0.000E+00	1.106E+00
U-235	5.870E-02	0.000E+00	0.000E+00	5.870E-02
U-236	9.771E-03	0.000E+00	0.000E+00	9.771E-03
U-238	1.085E+02	1.280E-04	0.000E+00	1.085E+02
U-239	1.430E-04	0.000E+00	0.000E+00	1.430E-04
U-DEP	1.260E-01	0.000E+00	0.000E+00	1.260E-01
U-NAT	2.007E-01	0.000E+00	0.000E+00	2.007E-01
W-188	6.000E-06	0.000E+00	0.000E+00	6.000E-06
Xe-133	8.611E-02	0.000E+00	0.000E+00	8.611E-02
Y-88	1.090E-04	0.000E+00	0.000E+00	1.090E-04
Y-90	6.890E-04	0.000E+00	0.000E+00	6.890E-04
Yb-169	2.416E-03	0.000E+00	0.000E+00	2.416E-03
Zn-65	1.749E+01	0.000E+00	0.000E+00	1.749E+01
Zr-95	4.492E-01	7.820E-02	0.000E+00	5.274E-01
Total	2.355E+03	8.590E+03	1.564E+02	1.110E+04

Table A-8. Beatty 1988 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ac-227	1.937E-03	0.000E+00	0.000E+00	1.937E-03
Ag-110	2.049E-02	0.000E+00	0.000E+00	2.049E-02
Ag-110m	7.448E-02	0.000E+00	0.000E+00	7.448E-02
Am-241	2.282E-01	2.600E-05	3.038E-02	2.586E-01
As-73	5.300E-05	0.000E+00	0.000E+00	5.300E-05
Au-195	6.800E-05	3.000E-06	0.000E+00	7.100E-05
Ba-133	6.690E-03	9.660E-04	3.000E-06	7.651E-03
Ba-140	1.490E-04	0.000E+00	0.000E+00	1.490E-04
Be-7	1.710E-03	0.000E+00	0.000E+00	1.710E-03
Bi-205	9.000E-06	0.000E+00	0.000E+00	9.000E-06
Bi-207	2.710E-04	0.000E+00	0.000E+00	2.710E-04
Bi-210	1.030E-04	0.000E+00	0.000E+00	1.030E-04
C-14	5.975E+00	5.085E-02	1.650E+00	7.676E+00
Ca-45	1.265E-01	0.000E+00	0.000E+00	1.265E-01
Cd-109	3.690E-02	1.000E-06	0.000E+00	3.690E-02
Ce-141	3.398E-02	0.000E+00	0.000E+00	3.398E-02
Ce-144	6.839E-01	1.000E-06	0.000E+00	6.839E-01
Cf-252	0.000E+00	4.200E-05	0.000E+00	4.200E-05
Cl-36	1.333E-02	0.000E+00	0.000E+00	1.333E-02
Cm-241	7.700E-05	0.000E+00	0.000E+00	7.700E-05
Cm-242	9.080E-02	0.000E+00	0.000E+00	9.081E-02
Cm-243	8.200E-05	0.000E+00	0.000E+00	8.200E-05
Cm-244	5.300E-05	0.000E+00	2.740E-02	2.745E-02
Co-57	7.731E+00	1.445E-03	0.000E+00	7.732E+00
Co-58	3.383E+01	2.030E+01	0.000E+00	5.413E+01
Co-60	5.821E+02	1.248E+02	1.970E+02	9.039E+02
Cr-51	2.193E+02	0.000E+00	0.000E+00	2.193E+02
Cs-134	7.728E+00	4.336E+01	0.000E+00	5.109E+01
Cs-136	2.400E-02	0.000E+00	0.000E+00	2.400E-02
Cs-137	1.903E+01	1.583E+02	2.340E+03	2.518E+03
Dy-159	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Eu-152	4.750E-04	1.000E-06	0.000E+00	4.760E-04
Eu-154	2.240E-04	0.000E+00	0.000E+00	2.240E-04
Eu-155	2.200E-05	0.000E+00	0.000E+00	2.200E-05
Fe-55	1.237E+03	5.417E+00	0.000E+00	1.242E+03
Fe-59	6.421E-01	0.000E+00	0.000E+00	6.421E-01
Ga-67	8.476E-03	0.000E+00	0.000E+00	8.476E-03
Gd-153	1.540E-01	3.000E-03	0.000E+00	1.570E-01
Ge-68	3.867E-03	0.000E+00	0.000E+00	3.867E-03
H-3	9.237E+01	3.214E+03	0.000E+00	3.307E+03
Hf-181	6.800E-05	0.000E+00	0.000E+00	6.800E-05
Hg-203	5.000E-06	0.000E+00	0.000E+00	5.000E-06
I-121	1.478E-03	0.000E+00	0.000E+00	1.478E-03
I-123	4.089E-03	0.000E+00	0.000E+00	4.089E-03
I-124	1.000E-06	0.000E+00	0.000E+00	1.000E-06

Table A-8 (Continued)

Nuclide	Class A	Class B	Class C	Total
I-125	2.836E+01	2.000E-06	0.000E+00	2.836E+01
I-129	2.386E-02	2.000E-06	0.000E+00	2.386E-02
I-131	1.119E+00	0.000E+00	0.000E+00	1.119E+00
In-111	1.632E-02	0.000E+00	0.000E+00	1.632E-02
In-113	1.250E-04	0.000E+00	0.000E+00	1.250E-04
In-114	7.790E-04	0.000E+00	0.000E+00	7.790E-04
Ir-192	9.064E-01	0.000E+00	0.000E+00	9.064E-01
K-40	4.400E-05	0.000E+00	0.000E+00	4.400E-05
Kr-85	6.696E+01	1.500E-02	0.000E+00	6.697E+01
Mn-54	1.612E+02	5.647E+00	0.000E+00	1.668E+02
Mo-93	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Mo-99	1.710E-04	0.000E+00	0.000E+00	1.710E-04
Na-22	3.794E-02	1.000E-06	0.000E+00	3.794E-02
Na-24	1.101E-03	0.000E+00	0.000E+00	1.101E-03
Nb-94	7.430E-04	0.000E+00	0.000E+00	7.430E-04
Nb-95	2.432E-01	0.000E+00	0.000E+00	2.432E-01
Nd-147	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ni-59	1.820E-04	0.000E+00	0.000E+00	1.820E-04
Ni-63	5.084E+00	1.084E+01	0.000E+00	1.592E+01
P-32	2.380E+01	0.000E+00	0.000E+00	2.380E+01
Pa-234	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Pb-210	8.330E-04	2.000E-06	0.000E+00	8.350E-04
Pm-147	5.136E-01	0.000E+00	0.000E+00	5.136E-01
Po-210	1.404E-02	0.000E+00	0.000E+00	1.404E-02
Pr-147	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pt-195	5.000E-03	0.000E+00	0.000E+00	5.000E-03
Pu-238	1.774E-02	0.000E+00	6.000E-02	7.774E-02
Pu-239	4.506E-02	0.000E+00	0.000E+00	4.506E-02
Pu-240	2.220E-02	0.000E+00	0.000E+00	2.220E-02
Pu-241	9.274E-01	0.000E+00	0.000E+00	9.274E-01
Pu-242	3.420E-04	0.000E+00	0.000E+00	3.420E-04
Ra-226	1.090E+01	6.719E-02	9.941E-01	1.196E+01
Ra-228	2.940E-04	0.000E+00	0.000E+00	2.940E-04
Rb-86	1.238E-02	0.000E+00	0.000E+00	1.238E-02
Ru-103	4.997E-03	0.000E+00	0.000E+00	4.997E-03
Ru-106	3.070E-04	1.000E-06	0.000E+00	3.080E-04
S-35	5.371E+00	0.000E+00	0.000E+00	5.371E+00
Sb-122	1.900E-05	0.000E+00	0.000E+00	1.900E-05
Sb-124	7.203E+00	0.000E+00	0.000E+00	7.203E+00
Sb-125	2.828E-01	0.000E+00	0.000E+00	2.828E-01
Sc-46	1.088E-02	0.000E+00	0.000E+00	1.088E-02
Sc-47	3.000E-03	0.000E+00	0.000E+00	3.000E-03
Se-75	8.065E-03	0.000E+00	0.000E+00	8.065E-03
Sm-151	4.000E-06	0.000E+00	0.000E+00	4.000E-06
Sn-111	1.460E-04	0.000E+00	0.000E+00	1.460E-04
Sn-113	1.097E-02	1.000E-06	0.000E+00	1.097E-02
Sn-119m	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Sr-85	1.034E-02	0.000E+00	0.000E+00	1.034E-02

Table A-8 (Continued)

Nuclide	Class A	Class B	Class C	Total
Sr-89	2.834E-03	0.000E+00	0.000E+00	2.834E-03
Sr-90	3.440E-01	6.672E+00	1.280E+01	1.982E+01
Ta-179	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Ta-182	4.446E-03	0.000E+00	0.000E+00	4.446E-03
Tb-157	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Tb-158	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Tc-99	1.332E-01	1.000E-06	0.000E+00	1.332E-01
Tc-99m	6.108E-03	0.000E+00	0.000E+00	6.108E-03
Te-123	4.248E-03	0.000E+00	0.000E+00	4.248E-03
Te-125m	2.190E-04	0.000E+00	0.000E+00	2.190E-04
Te-129m	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Th-228	1.690E-04	2.000E-05	0.000E+00	1.890E-04
Th-230	1.147E-03	0.000E+00	0.000E+00	1.147E-03
Th-232	2.766E-02	1.078E-03	0.000E+00	2.874E-02
Th-NAT	7.540E-04	0.000E+00	0.000E+00	7.540E-04
Th-235	2.500E-05	0.000E+00	0.000E+00	2.500E-05
Tl-201	3.435E-03	0.000E+00	0.000E+00	3.435E-03
Tl-204	1.895E-03	1.000E-05	0.000E+00	1.905E-03
Tm-171	2.000E-05	0.000E+00	0.000E+00	2.000E-05
U-232	1.000E-06	0.000E+00	0.000E+00	1.000E-06
U-233	1.000E-06	0.000E+00	0.000E+00	1.000E-06
U-234	1.723E-02	0.000E+00	0.000E+00	1.723E-02
U-235	1.104E-03	0.000E+00	1.000E-03	2.104E-03
U-236	2.600E-05	0.000E+00	0.000E+00	2.600E-05
U-238	1.358E+01	0.000E+00	2.358E-03	1.359E+01
U-DEP	3.492E-03	0.000E+00	0.000E+00	3.492E-03
U-NAT	4.807E-02	1.606E-04	0.000E+00	4.968E-02
W-178	6.792E-03	0.000E+00	0.000E+00	6.792E-03
Xe-127	2.700E-05	0.000E+00	0.000E+00	2.700E-05
Y-88	1.983E-02	0.000E+00	0.000E+00	1.983E-02
Y-90	9.481E-03	1.000E-06	0.000E+00	9.482E-03
Zn-65	1.428E+01	1.100E-05	0.000E+00	1.428E+01
Zr-95	9.050E-02	0.000E+00	0.000E+00	9.050E-02
Zr-97	2.100E-05	0.000E+00	0.000E+00	2.100E-05
Total	2.549E+03	3.590E+03	2.553E+03	8.691E+03



Table A-9. Beatty 1989 Radionuclide Distribution (Ci) by Waste Class

Nuclide	Class A	Class B	Class C	Total
Ac-227	3.740E-04	0.000E+00	0.000E+00	3.740E-04
Ag-110	6.644E-02	0.000E+00	0.000E+00	6.644E-02
Ag-110m	2.638E-01	1.262E+00	0.000E+00	1.525E+00
Am-241	7.431E-02	2.026E-03	3.889E+00	3.965E+00
As-76	3.200E-05	0.000E+00	0.000E+00	3.200E-05
Au-195	4.917E-02	0.000E+00	0.000E+00	4.917E-02
Au-198	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Ba-133	4.844E-02	1.500E-05	0.000E+00	4.845E-02
Ba-137	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Ba-137m	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ba-140	1.941E-03	0.000E+00	0.000E+00	1.941E-03
Be-7	2.100E-05	0.000E+00	0.000E+00	2.100E-05
Bi-207	2.100E-05	0.000E+00	0.000E+00	2.100E-05
Bi-210	3.080E-04	0.000E+00	0.000E+00	3.080E-04
Bi-214	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Br-85	1.000E-05	0.000E+00	0.000E+00	1.000E-05
C-14	9.884E+00	1.875E-02	1.615E+01	2.606E+01
Ca-45	1.959E-01	0.000E+00	0.000E+00	1.959E-01
Cd-109	1.566E-01	1.000E-06	0.000E+00	1.566E-01
Cd-113	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Cd-115	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ce-139	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Ce-141	1.247E-02	0.000E+00	0.000E+00	1.247E-02
Ce-144	5.049E-02	0.000E+00	0.000E+00	5.049E-02
Cf-252	2.370E-04	4.000E-05	0.000E+00	2.770E-04
Cl-36	2.120E-02	0.000E+00	0.000E+00	2.120E-02
Cl-38	1.000E-04	0.000E+00	0.000E+00	1.000E-04
Cm-242	3.130E-03	6.000E-05	0.000E+00	3.190E-03
Cm-243	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Cm-244	3.420E-04	0.000E+00	2.000E-06	3.440E-04
Co-56	1.000E-05	0.000E+00	0.000E+00	1.000E-05
Co-57	2.351E+00	1.440E-04	3.866E-03	2.355E+00
Co-58	4.443E+01	3.195E-01	0.000E+00	4.475E+01
Co-60	1.051E+03	1.065E+04	2.477E+02	1.195E+04
Cr-51	9.636E+01	1.153E-01	0.000E+00	9.648E+01
Cs-134	1.732E+00	9.075E+00	1.250E-03	1.081E+01
Cs-135	6.300E-05	0.000E+00	0.000E+00	6.300E-05
Cs-136	4.000E-06	0.000E+00	0.000E+00	4.000E-06
Cs-137	1.475E+01	2.186E+02	2.774E+03	3.008E+03
Cu-64	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Cu-67	1.470E-04	0.000E+00	0.000E+00	1.470E-04
Eu-152	1.900E-04	0.000E+00	0.000E+00	1.900E-04
Eu-154	2.568E-03	0.000E+00	0.000E+00	2.568E-03
Eu-155	4.780E-04	0.000E+00	0.000E+00	4.780E-04
Fe-55	1.992E+03	4.490E+00	4.390E+02	2.436E+03



Table A-9 (Continued)

Nuclide	Class A	Class B	Class C	Total
Fe-59	2.370E+01	0.000E+00	0.000E+00	2.370E+01
Ga-67	9.958E-03	0.000E+00	0.000E+00	9.958E-03
Gd-148	2.000E-06	0.000E+00	0.000E+00	2.000E-06
Gd-153	5.601E-01	9.000E-06	0.000E+00	5.601E-01
Ge-68	1.311E-02	0.000E+00	0.000E+00	1.311E-02
H-3	4.183E+02	2.310E+04	6.011E+02	2.412E+04
Hf-181	4.856E-03	0.000E+00	0.000E+00	4.856E-03
Hg-203	6.900E-05	1.500E-05	0.000E+00	8.400E-05
I-123	2.126E-03	0.000E+00	0.000E+00	2.126E-03
I-124	3.077E-02	0.000E+00	0.000E+00	3.077E-02
I-125	2.748E+01	1.970E-03	0.000E+00	2.748E+01
I-129	1.047E-02	1.000E-06	2.000E-06	1.048E-02
I-131	4.459E-01	0.000E+00	0.000E+00	4.459E-01
In-111	1.076E-01	0.000E+00	0.000E+00	1.076E-01
In-113	1.000E-05	0.000E+00	0.000E+00	1.000E-05
In-114	7.120E-04	0.000E+00	0.000E+00	7.120E-04
In-114m	5.550E-04	0.000E+00	0.000E+00	5.550E-04
Ir-192	1.963E+01	0.000E+00	0.000E+00	1.963E+01
Kr-85	3.711E+01	1.000E+00	0.000E+00	3.811E+01
Mn-54	3.889E+02	1.335E+01	2.279E+00	4.046E+02
Mo-99	2.127E-03	0.000E+00	0.000E+00	2.127E-03
Na-22	1.774E-01	1.600E-05	0.000E+00	1.774E-01
Na-24	1.000E-03	0.000E+00	0.000E+00	1.000E-03
Nb-93m	3.208E-02	0.000E+00	0.000E+00	3.208E-02
Nb-94	4.422E-02	0.000E+00	2.000E-06	4.422E-02
Nb-95	2.635E-01	0.000E+00	0.000E+00	2.635E-01
Ni-59	5.200E-05	0.000E+00	2.408E+00	2.408E+00
Ni-61	3.600E-04	0.000E+00	0.000E+00	3.600E-04
Ni-63	2.871E+01	4.259E-01	2.980E+02	3.271E+02
Ni-65	1.000E-02	0.000E+00	0.000E+00	1.000E-02
Np-237	2.000E-05	0.000E+00	0.000E+00	2.000E-05
P-32	1.773E+01	0.000E+00	0.000E+00	1.773E+01
P-33	1.600E-05	0.000E+00	0.000E+00	1.600E-05
Pa-231	1.400E-05	0.000E+00	0.000E+00	1.400E-05
Pa-233	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pa-234	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Pb-210	6.300E-01	1.000E-06	0.000E+00	6.300E-01
Pm-147	2.259E+00	1.148E-02	0.000E+00	2.271E+00
Po-208	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Po-210	5.529E-01	0.000E+00	0.000E+00	5.529E-01
Pt-193	0.000E+00	0.600E+00	2.000E-06	2.000E-06
Pu-238	4.347E-03	0.000E+00	6.002E-02	6.437E-02
Pu-239	1.611E-02	0.000E+00	2.000E-06	1.611E-02
Pu-240	5.953E-03	0.000E+00	2.000E-06	5.955E-03
Pu-241	2.184E-01	3.795E-03	6.000E-05	2.223E-01
Pu-242	3.350E-04	0.000E+00	0.000E+00	3.350E-04
Ra-225	2.650E-01	0.000E+00	0.000E+00	2.650E-01
Ra-226	2.417E+01	7.702E-01	1.667E-02	2.496E+01

Table A-9 (Continued)

Nuclide	Class A	Class B	Class C	Total
Ra-228	1.620E-04	0.000E+00	0.000E+00	1.620E-04
Rb-83	1.000E-06	0.000E+00	0.000E+00	1.000E-06
Rb-86	3.873E-02	0.000E+00	0.000E+00	3.873E-02
Ru-103	2.532E-02	0.000E+00	0.000E+00	2.532E-02
Ru-105	2.300E-05	0.000E+00	0.000E+00	2.300E-05
Ru-106	2.638E-03	0.000E+00	0.000E+00	2.638E-03
S-35	7.096E+00	0.000E+00	0.000E+00	7.096E+00
Sb-124	1.831E-01	0.000E+00	0.000E+00	1.831E-01
Sb-125	2.745E-01	0.000E+00	0.000E+00	2.745E-01
Sc-46	1.717E-02	0.000E+00	0.000E+00	1.717E-02
Se-75	7.873E-03	0.000E+00	0.000E+00	7.873E-03
Sm-151	5.680E-02	0.000E+00	0.000E+00	5.680E-02
Sn-113	1.678E-02	0.000E+00	0.000E+00	1.678E-02
Sn-119	4.000E-05	0.000E+00	0.000E+00	4.000E-05
Sn-125	2.600E-05	0.000E+00	0.000E+00	2.600E-05
Sr-85	1.448E-02	0.000E+00	0.000E+00	1.448E-02
Sr-89	8.653E-03	0.000E+00	0.000E+00	8.653E-03
Sr-90	7.869E-01	1.437E+01	3.200E+01	4.716E+01
Ta-182	8.010E-04	0.000E+00	0.000E+00	8.010E-04
Tb-160	3.000E-06	0.000E+00	0.000E+00	3.000E-06
Tc-99	3.198E-01	1.800E-04	2.000E-06	3.200E-01
Tc-99m	2.132E-02	0.000E+00	0.000E+00	2.132E-02
Te-123	1.300E-05	0.000E+00	0.000E+00	1.300E-05
Te-123m	2.700E-05	0.000E+00	0.000E+00	2.700E-05
Th-228	1.018E-03	0.000E+00	0.000E+00	1.018E-03
Th-230	6.030E-04	5.000E-06	0.000E+00	6.080E-04
Th-232	1.011E+00	7.200E-05	0.000E+00	1.011E+00
Th-NAT	6.810E-04	0.000E+00	0.000E+00	6.810E-04
Tl-201	1.675E-02	0.000E+00	0.000E+00	1.675E-02
Tl-204	5.082E-02	1.775E-03	0.000E+00	5.259E-02
U-233	2.408E-02	0.000E+00	0.000E+00	2.408E-02
U-234	3.978E-03	0.000E+00	0.000E+00	3.978E-03
U-235	1.141E-03	1.000E-06	0.000E+00	1.142E-03
U-236	5.400E-05	0.000E+00	0.000E+00	5.400E-05
U-238	1.463E+01	2.000E-06	0.000E+00	1.463E+01
U-DEP	3.439E-01	0.000E+00	0.000E+00	3.439E-01
U-NAT	1.543E-02	3.410E-04	0.000E+00	1.577E-02
V-48	1.000E-05	0.000E+00	0.000E+00	1.000E-05
W-185	1.065E-03	0.000E+00	0.000E+00	1.065E-03
Xe-133	6.000E-06	0.000E+00	0.000E+00	6.000E-06
Y-88	1.100E-05	1.500E-05	0.000E+00	2.600E-05
Y-90	5.291E-02	0.000E+00	0.000E+00	5.291E-02
Yb-169	8.000E-06	0.000E+00	0.000E+00	8.000E-06
Zn-65	2.118E+01	6.000E-06	0.000E+00	2.118E+01
Zr-95	1.715E-01	0.000E+00	0.000E+00	1.715E-01
Total	4.251E+03	3.401E+04	4.417E+03	4.268E+04

APPENDIX B

ISOTOPIC DISTRIBUTION BY WASTE CLASS AND GENERAL INDUSTRY

## APPENDIX B

### ISOTOPIC DISTRIBUTION BY WASTE CLASS AND GENERAL INDUSTRY

This appendix presents isotopic distributions as a function of waste class and general industry for low-level waste disposed at the Richland, WA, and Beatty, NV, disposal facilities during 1987, 1988, and 1989. Isotopic distributions for Class A wastes are divided into two subclasses: Class A wastes that have been disposed in a manner that meets the structural stability requirements of 10 CFR 61.56 (denoted Class AS waste), and Class A wastes that have not been disposed in manner that meets the structural stability requirements of 10 CFR 61.56 (denoted Class AU waste). All isotopic distributions are given in units of millicuries.

Five industry categories are considered: utilities, colleges or universities, hospitals, government, and private industry. For wastes delivered to the disposal facility via a waste broker or a waste processor, the distributions are tracked back to the original generator. For example, if a utility delivers waste to a waste processor who reduces the volume of the waste and ships the processed waste to a disposal facility, the isotopic distributions are herein listed under the utility category rather than the private industry category.

Table B-1. Beatty 1997 Isotopic Distribution (mCi) by General Industry

Colleges

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	3.484				3.484
Ca-45	1.083				1.083
Co-57	.070				.070
Co-60	.041				.041
Cr-51	3.948				3.948
Cs-137	.195				.195
Fe-55	.281				.281
Gd-153	.748				.748
H-3	507.216				507.216
I-125	21.348				21.348
I-131	.027				.027
Nb-95	.285				.285
Ni-63	.366				.366
P-32	.957				.957
S-35	7.106				7.106
Zn-65	.085				.085
Total	547.240				547.240

Government

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	1.844				1.844
Ba-140	.009				.009
C-14	11.721				11.721
Co-58	279.291				279.291
Co-60	829.748				829.748
Cr-51	1.618				1.618
Cs-134	.080				.080
Cs-137	3,250.444				3,250.444
Fe-55	754.498				754.498
Fe-59	6.014				6.014
H-3	5.822				5.822
I-131	.001				.001
Mn-54	118.750				118.750
Nb-95	.496				.496
Ni-63	29.983				29.983



Table B-1 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Sb-125	.438				.438
Sr-90	.022				.022
Ta-182	1.007				1.007
Zr-95	1.459				1.459
Total	5,293.245				5,293.245

Industry

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ac-227		.778			.778
Ag-105	.511				.511
Ag-108m	724.680				724.680
Ag-110m	390.519				390.519
Al-26	.040				.040
Am-241	104.333	1.778	.117		106.228
Am-243	1.320				1.320
Au-195	110.257				110.257
Ba-133	4.465	.238	.212		4.915
Ba-140	.007				.007
Be-7	.045				.045
Bi-207	1.059				1.059
C-14	21,415.779	13.990		.250	21,430.019
Ca-45	315.464				315.464
Ca-47	.028				.028
Cd-109	273.521	.953			274.474
Ce-139	.008				.008
Ce-141	6.412				6.412
Ce-144	59.394	.016			59.410
Cf-252	.181				.181
Cl-32	.204				.204
Cl-36	57.407	.001			57.408
Cm-242	1.171				1.171
Cm-243	1.502				1.502
Cm-244	14.039				14.039
Co-56	.702				.702
Co-57	1,281.572	6.996	15.356		1,303.924
Co-58	12,875.208				12,875.208
Co-60	62,646.844	653.953	1,300,700.048	86,900.000	1,450,900.845
Cr-51	3,357.980				3,357.980
Cs-134	159.488				159.488
Cs-137	5,046.368	1,142.069	52,521.179	54,525.000	113,234.616

Table B-1 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cu-64	.001				.001
Cu-67	.176				.176
Eu-152	10.149				10.149
Eu-154	2.290				2.290
Eu-155	.204				.204
Eu-157	.001				.001
Fe-55	61,026.814	14.039			61,040.853
Fe-57	.007				.007
Fe-59	124.973				124.973
Ga-67	7.199				7.199
Gd-153	78.500				78.500
Ge-68	12.533				12.533
H-3	565,634.995	583.300	7,013,301.953	825.000	7,580,345.248
Hf-175	.673				.673
Hg-203	.171				.171
Ho-166	.001				.001
I-123	.010				.010
I-125	33,551.311	.002			33,551.313
I-129	4.164	.004	.001		4.169
I-131	800.118	.001			800.119
In-111	11.696				11.696
In-114	1.955				1.955
Ir-192	1,241.624				1,241.624
Kr-83	1,163.125	479.753	460.953		2,103.831
La-140	6.913				6.913
Mn-54	3,148.420	.005			3,148.425
Mo-99	.010				.010
Na-20	.030				.030
Na-22	734.076	13.730			747.806
Nb-94	1.823				1.823
Nb-95	323.450				323.450
Ni-59	58.091	.001			58.092
Ni-63	5,927.245	19.967	191.988		6,139.200
Np-237	.104				.104
Os-191	.100				.100
P-32	6,899.851				6,899.851
P-33	.254				.254
Pa-231		.004			.004
Pb-203	.390				.390
Pb-210	.079	.005			.085
Pm-147	44.075				44.075
Po-210	23.116				23.116
Pt-193		.001			.001
Pt-195m	13.073				13.073
Pu-238	8.813				8.813

Table B-1 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Pu-239	42.778	.007			42.785
Pu-240	3.886				3.886
Pu-241	102.131				102.131
Pu-242	1.913				1.913
Ra-226	2,689.687	1,247.339	10.398		3,947.424
Rb-86	21.629				21.629
Ru-103	5.643				5.643
Ru-106	11.449	.006			11.455
S-35	7,332.680	.524			7,333.204
Sb-124	.461				.461
Sb-125	50.047	.016			50.063
Sc-46	60.690				60.690
Sc-47	1.000				1.000
Se-75	49.358				49.358
Sm-151	1.897				1.897
Sn-113	25.983				25.983
Sn-131	.009				.009
Sr-85	64.184				64.184
Sr-86	.001				.001
Sr-89	86.534				86.534
Sr-90	217.561	.049	22,878.691	14,121.000	37,217.301
Sr-91	55.108				55.108
Ta-181	9.992				9.992
Ta-182	12.737				12.737
Tc-99	259.854	.005			259.859
Tc-99m	3.280				3.280
Te-123	28.749				28.749
Th-228	.271				.271
Th-230	.011				.011
Th-232	14.505	1.023			15.528
Th-NAT	66.365				66.365
Tl-201	459.136				459.136
Tl-204	1.832	.001			1.833
U-233	4.984				4.984
U-234	1,106.314				1,106.314
U-235	58.700				58.700
U-236	9.771				9.771
U-238	108,545.573	3.613	.128		108,549.314
U-239	.143				.143
U-DEP	126.036				126.036
U-NAT	200.701				200.701
W-188	.006				.006
Xe-133	84.739				84.739
Y-88	.109				.109
Y-90	.689				.689

Table B-1 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Yb-169	2.416				2.416
Zn-65	221.742				221.742
Zr-95	153.011				153.011
Total	911,909.406	4,184.168	8,390,081.024	156,371.250	9,462,545.848

## Utilities

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	9.023	754.338	1,659.000		2,422.361
Am-241	.043	.004	.015		.062
Ba-140	5.778		1.794		7.572
C-14	1,964.701	22.207	209.888		2,196.796
Cd-109	.009				.009
Ce-141	29.100				29.100
Ce-144	421.515		1.350		422.865
Cm-241	.002				.002
Cm-242	.215	.075	.074		.364
Cm-243		.002			.002
Cm-244	.059	.003	.010		.072
Cu-57	35.886	.003	.407		36.296
Co-58	124,502.207	7,052.428	14,208.000		145,762.635
Co-60	200,059.940	87,978.309	66,323.000		354,361.249
Cr-51	130,119.140	14,626.520	37,921.000		182,666.660
Cs-134	5,180.288	1,473.760	14,689.000		21,343.048
Cs-137	10,301.851	2,616.132	29,408.000		42,325.983
Eu-154	666.207				666.207
Eu-155	697.494				697.494
Fe-55	325,714.122	123,015.435	7,695.500		456,425.057
Fe-59	23,312.100	333.553			23,645.653
H-3	91,558.951	5,618.956	15.942		97,193.849
I-129	9.642	.228	.054		9.924
I-131	518.997				518.997
La-140	.019		1.794		1.813
Mn-54	208,390.082	31,357.318	21,892.400		261,639.800
Nb-94	.597				.597
Nb-95	487.960	127.000	146.000		760.960
Ni-59	.265	.037			.302
Ni-63	7,799.031	1,271.965	5,476.100		14,547.096
Np-237	.005	.001			.006
Pu-238	.229	.011	.031		.271
Pu-239	.335	.005	.029		.369
Pu-240	.327	.002			.329

Table B-1 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Pu-241	125.827	6.270	3.941		136.038
Ru-106	10.094				10.094
S-35	48.149				48.149
Sb-124	5,998.319	760.300			6,758.619
Sb-125	27.327	10.314	27.800		65.441
Sn-113	.051				.051
Sr-89	1.481				1.481
Sr-90	40.602	5.763	34.985		81.350
Tc-99	18.787	.469	.075		19.331
Te-125m			6.740		6.740
U-235		.001			.001
Xe-133	1.367				1.367
Zn-65	14,845.127	2,424.979			17,270.106
Zr-95	220.033	74.700	78.200		372.933
Total	1,153,123.284	279,531.088	199,801.129		1,632,455.501



Table B-2. Beatty 1988 Isotopic Distribution (mCi) by General Industry

Colleges

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ac-227	1.937				1.937
Ag-110m	8.228				8.228
Am-241	0.018				0.018
Ba-133	0.019				0.019
Bi-210	0.020				0.020
C-14	155.910				155.910
Ca-45	32.575				32.575
Cd-109	0.200				0.200
Ce-141	3.033				3.033
Cl-36	2.261				2.261
Cm-244				27.401	27.401
Co-57	3.259				3.259
Co-58	0.023				0.023
Co-60	191.435				191.435
Cr-51	11.701				11.701
Cs-134	0.036				0.036
Cs-137	133.577		524,000.000		524,133.577
Fe-55	0.006				0.006
Fe-59	0.001				0.001
Gd-153	1.655				1.655
H-3	6,030.280				6,030.280
I-125	191.862				191.862
I-131	0.621				0.621
In-111	0.001				0.001
In-114	0.779				0.779
Mn-54	0.960				0.960
Na-22	3.049				3.049
Nb-95	1.722				1.722
Ni-63	13.674				13.674
P-32	171.689				171.689
Pb-210	0.638				0.638
Pm-147	0.001				0.001
Po-210	0.003				0.003
Ra-226	1,056.098				1,056.098
Ra-228	0.294				0.294
Rb-86	1.928				1.928
Ru-103	0.959				0.959
S-35	133.747				133.747
Sb-124	0.072				0.072

Table B-2 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Sb-125	0.003				0.003
Sc-46	6.962				6.962
Se-75	0.329				0.329
Sn-111	0.146				0.146
Sn-113	5.363				5.363
Sr-85	5.112				5.112
Sr-89	0.005				0.005
Sr-90	0.024				0.024
Tc-99	0.198				0.198
Th-232	0.032				0.032
Th-235	0.025				0.025
U-238	0.370				0.370
U-NAT	0.051				0.051
Zn-65	11.541				11.541
Total	8,184.432			524,027.401	532,211.833

Government

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	3.150				3.150
Ag-110m	4.033				4.033
Am-241	0.001				0.001
Au-195			0.003		0.003
Ba-133	0.001		0.958		0.959
Ba-140	0.149				0.149
Bi-210	0.081				0.081
C-14	49.055				49.055
Ca-45	0.300				0.300
Ce-144	0.011				0.011
Cl-36	0.001				0.001
Co-57	0.034		0.367		0.401
Co-58	1,142.416				1,142.416
Co-60	1,295.028		0.006		1,295.034
Cr-51	9.971				9.971
Cs-134	0.503				0.503
Cs-136	0.018				0.018
Cs-137	16.256		3,123.120		3,139.376
Eu-152			0.001		0.001
Fe-55	1,294.792				1,294.792
Fe-59	9.550				9.550
Gd-153			3.000		3.000

Table B-2 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
H-3	442.944		155.500		598.444
I-125	85.876		0.002		85.878
I-129			0.001		0.001
I-131	0.081				0.081
Mn-54	231.984				231.984
Mo-99	0.070				0.070
Na-22	0.023				0.023
Nb-95	1.817				1.817
Ni-63	346.422		8.000		354.422
Pa-234	0.001				0.001
Pb-210	0.026				0.026
Pm-147	0.400				0.400
Po-210	1.526				1.526
Ra-226	103.201				103.201
S-35	3.065				3.065
Sb-124	0.814				0.814
Sn-113	0.002				0.002
Sr-90	0.051		83.900		83.951
Ta-182	4.398				4.398
Tc-99	0.001				0.001
Th-232	0.550				0.550
Tl-204	0.030				0.030
U-238	65.506				65.506
Zn-65	7.185				7.185
Zr-95	2.012				2.012
Total	5,123.335		3,374.858		8,498.193

Hospitals

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ba-133	1.100				1.100
C-14	98.389				98.389
Ca-45	0.492				0.492
Ce-141	0.060				0.060
Co-57	9.894				9.894
Co-60	24.000				24.000
Cr-51	47.413				47.413
Cs-137	0.790				0.790
Fe-59	6.000				6.000
Gd-153	0.001				0.001
H-3	123.389				123.389

Table B-2 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
I-125	116.028				116.028
I-131	2.373				2.373
Na-22	0.570				0.570
P-32	120.772				120.772
Ra-226	4,337.065				4,337.065
Rb-86	1.306				1.306
S-35	67.102				67.102
Sc-46	0.088				0.088
Sr-85	2.640				2.640
Sr-90			44.300		44.300
Tc-99m	3.100				3.100
U-238	0.500				0.500
U-NAT	0.001				0.001
Total	4,963.073		44.300		5,007.373

Industry

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	17.338				17.338
Ag-110m	12.949	1.000			13.949
Am-241	218.729	9.355	0.026	30.381	258.491
As-73	0.053				0.053
Au-195	0.068				0.068
Ba-133	5.270	0.300	0.008	0.003	5.581
Be-7	1.710				1.710
Bi-205	0.009				0.009
Bi-207	0.271				0.271
Bi-210	0.002				0.002
C-14	5,407.982	2.272	0.050	1,650.000	7,060.304
Ca-45	91.978	1.122			93.100
Cd-109	24.350	12.350	0.001		36.701
Ce-141	1.786	0.001			1.787
Ce-144	20.919		0.001		20.920
Cf-252			0.042		0.042
Cl-36	11.065				11.065
Cm-241	0.077				0.077
Cm-242	0.034				0.034
Cm-243	0.078				0.078
Co-57	1,851.201	0.683	1.078		1,852.962
Co-58	258.647				258.647
Co-60	38,602.527	43.569	118,010.710	197,000.025	353,656.831

Table B-2 (Co.tinued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Cr-51	1,975.339				1,975.339
Cs-134	27.106				27.106
Cs-136	0.917				0.917
Cs-137	4,437.391	229.466	72,237.473	1,816,450.006	1,893,354.336
Dy-159	0.002				0.002
Eu-152	0.475				0.475
Eu-154	0.224				0.224
Eu-155	0.022				0.022
Fe-55	1,391.707	0.001	0.518		1,392.226
Fe-59	70.388				70.388
Ga-67	8.476				8.476
Gd-153	152.318				152.318
Ge-68	3.867				3.867
H-3	78,314.797	1,158.421	3,213,953.519		3,293,426.737
Hf-181	0.068				0.068
Hg-203	0.005				0.005
I-121	1.478				1.478
I-123	4.089				4.089
I-124	0.001				0.001
I-125	27,961.404	0.721			27,962.125
I-129	0.875				0.878
I-131	159.034				159.034
In-111	16.321				16.321
In-113	0.125				0.125
Ir-192	904.000	2.406			906.406
K-40	0.044				0.044
Kr-85	66,957.729		15.000		66,972.729
Mn-54	131.117	0.001	0.001		131.119
Mo-93	0.001				0.001
Mo-99	0.101				0.101
Na-22	34.210	0.084	0.001		34.295
Na-24	1.101				1.101
Nb-94	0.743				0.743
Nb-95	180.888				180.888
Nd-147	0.001				0.001
Ni-59	0.041				0.041
Ni-63	507.392	24.954	28.112		560.458
P-32	7,383.248				7,383.248
Pa-234	0.001				0.001
Pb-210	0.159	0.010	0.002		0.171
Pm-147	502.023	11.152			513.175
Po-210	2.517	9.992			12.509
Pr-147	0.001				0.001
Pt-195	5.000				5.000
Pu-238	17.642			60.000	77.642



Table B-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Pu-239	44.996				44.996
Pu-240	22.195				22.195
Pu-241	738.744				738.744
Pu-242	0.342				0.342
Ra-226	4,495.926	907.061	67.185	994.146	6,464.318
Rb-86	9.147				9.147
Ru-103	3.871				3.871
Ru-106	0.251		0.001		0.252
S-35	5,163.159	1.472			5,164.631
Sb-122	0.019				0.019
Sb-124	0.676				0.676
Sb-125	5.022				5.022
Sc-46	3.825				3.825
Sc-47	3.000				3.000
Se-75	7.736				7.736
Sm-151	0.004				0.004
Sn-113	5.601		0.001		5.602
Sn-119m	0.001				0.001
Sr-85	2.590				2.590
Sr-89	2.829				2.829
Sr-90	325.552		6,543.442	12,800.000	19,668.994
Ta-179	0.002				0.002
Ta-182	0.048				0.048
Ta-187	0.010				0.010
Tb-158	0.010				0.010
Tc-99	92.942				92.942
Tc-99m	3.008				3.008
Te-123	4.248				4.248
Te-125m	0.002				0.002
Te-129m	0.003				0.003
Th-228	0.168	0.001	0.020		0.189
Th-230	1.143	0.004			1.147
Th-232	25.889	1.194	1.078		28.161
Th-NAT	0.754				0.754
Ti-201	3.428	0.007			3.435
Ti-204	1.105	0.760	0.010		1.875
Tm-171	0.020				0.020
U-232	0.001				0.001
U-233	0.001				0.001
U-234	17.232				17.232
U-235	1.103	0.001		1.000	2.104
U-236	0.026				0.026
U-238	13,507.874	9.961		2.358	13,520.193
U-DEP	3.492				3.492
U-NAT	48.019		1.606		49.625

Table B-2 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
W-178	6.792				6.792
Xe-127	0.027				0.027
Y-88	19.826				19.826
Y-90	9.481		0.001		9.482
Zn-65	64.987		0.011		64.998
Zr-95	85.519				85.519
Zr-97	0.021				0.021
Total	262,414.161	2,428.321	3,410,859.897	2,028,987.919	5,704,690.238

Utilities

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	48.273				48.273
Am-241	0.055				0.055
-14	245.970	15.730	50.800		312.500
Ce-141	29.100				29.100
Ce-144	663.000				663.000
Cm-242	90.752	0.019			90.771
Cm-243	0.004				0.004
Cm-244	0.053				0.053
Co-57	5.791	5,859.942			5,865.733
Co-58	17,832.704	14,600.680	20,300.000		52,733.384
Co-60	312,803.860	229,150.488	6,778.000		548,732.348
Cr-51	37,979.140	179,265.312			217,244.452
Cs-134	7,577.676	122.221	43,360.000		51,059.897
Cs-136	23.060				23.060
Cs-137	13,657.993	550.091	82,890.000		97,098.084
Fe-55	722,000.185	512,108.093	5,416.000	1,239,524.278	1,239,524.278
Fe-59	324.595	231.577			556.172
H-3	5,857.725	442.906	34.600		6,335.321
I-129	22.950	0.028	0.001		22.979
I-131	957.166				957.166
Mn-54	99,079.859	61,715.919	5,647.000		166,442.778
Nb-95	58.760				58.760
Ni-59	0.141				0.141
Ni-63	3,983.091	208.769	10,800.000		14,991.860
P-32	2,657.730	13,469.042			16,126.772
Pu-238	0.100				0.100
Pu-239	0.068				0.068
Pu-240	0.004				0.004
Pu-241	187.717	0.937			188.654

Table B-2 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class A5</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Pu-103	0.167				0.167
Ru-106	0.056				0.056
S-35	2.704				2.704
Sb-124	7,181.678	20.100			7,201.778
Sb-125	270.815	7.002			277.817
Sr-90	15.995	2.328			18.323
Tc-99	39.714	0.322	0.001		40.037
Te-125m	0.217				0.217
Zn-65	9,322.182	4,875.135			14,197.317
Zr-95	2.965				2.965
<b>Total</b>	<b>1,242,924.015</b>	<b>1,022,646.641</b>	<b>175,276.492</b>		<b>2,440,847.148</b>

Table B-3. Beatty 1989 Isotopic Distribution (mCi) by General Industry

Colleges

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ac-227	.374				.374
Ag-110	1.001				1.001
Ag-110m	15.891				15.891
Am-241	.589	10.316	.485	30.000	41.390
Au-198	.001				.001
Ba-133	1.386	.007			1.393
Ba-137	.009				.009
Ba-137m	.001				.001
Be-7	.020				.020
Bi-207	.010				.010
Bi-210	.001				.001
Bi-214	.001				.001
Br-85	.010				.010
C-14	1,022.470	.360			1,022.830
Ca-45	77.493	.001			77.494
Cd-109	20.133		.001		20.134
Cd-115	.001				.001
Ce-139	.001				.001
Ce-141	1.905	.039			1.944
Ce-144	.257				.257
Cf-252	.203				.203
Cl-36	14.910	.006			14.916
Cm-244	.003				.003
Co-56	.010				.010
Co-57	65.272		.001		65.273
Co-58	.817	.004			.821
Co-60	25,576.995	16.433	470.002	1.200	26,064.630
Cr-51	273.745		.001		273.746
Cs-134	.212	.052			.264
Cs-137	169.554	.220	3,578.087	974,800.000	978,547.861
Cu-67	.137				.137
Eu-152	.051				.051
Eu-154	.021				.021
Eu-155	.001				.001
Fe-55	8.922		.008		8.930
Fe-59	2.094				2.094
Ga-67	.576				.576
Gd-153	102.574	142.000	.009		244.583
Ge-68	12.956				12.956

Table B-3 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
H-3	73,650.740	26.413	54,912.805		128,589.958
Hf-181	.007				.007
Hg-203	.063				.063
I-125	2,573.430	97.079	1.970		2,672.479
I-129	.001		.001		.002
I-131	26.192				26.192
In-111	5.441	.038			5.479
In-113	.010				.010
In-114	.133				.133
In-114m	.005				.005
Ir-192	3.162				3.162
Kr-85	98.821	60.000			158.821
Mn-54	1.877		.005		1.882
Na-22	96.124	.305	.001		96.430
Nb-93m	32.080				32.080
Nb-94	44.200				44.200
Nb-95	4.861	.039			4.900
Ni-63	146.317	2.000	9.985		158.302
P-32	3,474.866				3,474.866
Pa-233	.001				.001
Pa-234	.001				.001
Pb-210	.035	630.000	.001		630.036
Pm-147	.015				.015
Po-210	2.065	.313			2.378
Ra-226	1,893.444	66.845	241.177		2,201.466
Ra-228	.162				.162
Rb-86	1.549				1.549
Ru-103	.064	.016			.080
Ru-105		.023			.023
Ru-106	.005				.005
S-35	2,339.929	5.131			2,345.060
Sb-124	.007				.007
Sb-125	.103				.103
Sc-46	6.311	.042			6.353
Se-75	4.047				4.047
Sm-151	13.800				13.800
Sn-113	8.140	.051			8.191
Sr-85	9.569	.039			9.608
Sr-89	.525				.525
Sr-90	6.582	.001	68.648		75.231
Ta-182	.801				.801
Tc-99	196.883	3.752			200.635
Tc-99m	2.521				2.521
Th-230	.282	.010			.292
Th-232	2.385	.187	.010		2.582



Table B-3 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Th-NAT	.025				.025
Tl-201	.095				.095
Tl-204	1.448				1.448
U-238	19.174	2.823			21.997
U-NAT	.328		.160		.488
V-48	.010				.010
Xe-133	.001				.001
Y-90	5.001				5.001
Zn-65	55.485		.006		55.491
Total	112,099.730	1,064.545	59,283.363	974,831.200	1,147,278.838

Government

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	.002				.002
Ag-110m	21.098	.020			21.118
Am-241	.149	.900	.107		1.156
Ba-133	.004				.004
Be-7	.001				.001
Bi-207	.003				.003
Bi-210	.002				.002
C-14	180.322		.002		180.324
Ca-45	.600				.600
Cd-109	.004				.004
Co-57	8.901				8.901
Co-58	1,322.111				1,322.111
Co-60	535.589	10.026	480.500		1,026.115
Cs-134	.597				.597
Cs-137	7.735	.061	1,398.608		1,406.404
Eu-152	.038	.038			.076
Eu-154	.497				.497
Eu-155	.477				.477
Fe-55	516.334				516.334
Fe-59	6.399				6.399
Gd-148	.001				.001
H-3	11,631.491	12,928.870	860,980.250		885,540.611
Hf-181	4.826				4.826
I-125	5.373				5.373
Kr-85	17,100.317				17,100.317
Mn-54	62.623				62.623
Na-22	5.474				5.474
Nb-95	6.266				6.266

Table B-3 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ni-63	92.399				92.399
P-32	.101				.101
Pa-231	.014				.014
Pb-210	.002				.002
Pm-147	917.991	.086			918.077
Po-208	.003				.003
Po-210	1.002				1.002
Pu-239	2.306	1.225			3.531
Pu-240	.015				.015
Ra-226	541.110	25.615	13.597		580.322
S-35	3.110				3.110
Sb-125	.083				.083
Se-75	.020				.020
Sn-113	1.065				1.065
Sr-90	10.010		98.357		108.367
Tb-160	.003				.003
Tc-99	1.000				1.000
Th-228	1.000				1.000
Th-230			.005		.005
Th-232	.204	.405	.060		.669
Th-NAT	.625				.625
Tl-204		.090			.090
U-233	23.890	.190			24.080
U-235	.038				.038
U-238	1.644	5.908			7.552
U-DEP	9.000				9.000
U-NAT	1.323		.001		1.324
Zn-65	62.980	.076			63.056
Zr-95	2.645				2.645
Total	33,100.817	12,973.510	862,971.487		909,045.814

Hospitals

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	.008				.008
Am-241	4.028		.010		4.038
Au-198	.001				.001
Ba-133	2.322				2.322
C-14	314.988				314.988
Ca-45	15.691				15.691
Cd-109	1.028				1.028
Ce-141	.247				.247

Table B-3 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ce-144	.600				.600
Cl-36	1.699				1.699
Co-57	196.024		.142	3.866	200.032
Co-58	.034				.034
Co-60	47,760.208				47,760.208
Cr-51	205.568				205.568
Cs-134	.049				.049
Cs-137	228.014		1,304.274		1,532.288
Eu-152	.003				.003
Eu-154	.001				.001
Fe-55	.100				.100
Fe-59	2.166				2.166
Ga-67	5.278				5.278
Gd-153	314.164				314.164
H-3	2,264.090	73.010			2,337.100
I-123	2.125				2.125
I-124	30.770				30.770
I-125	2,929.996	.005			2,930.001
I-129	.004				.004
I-131	35.115				35.115
In-111	99.145				99.145
Ir-192	717.212				717.212
Mn-54	.093				.093
Mo-99	2.125				2.125
Na-22	17.108	1.003			18.111
Nb-95	.020				.020
Ni-63	10.002				10.002
P-32	1,406.866				1,406.866
P-33	.016				.016
Pb-210	.006				.006
Ra-225	265.000				265.000
Ra-226	10,634.092	2,988.400	487.955	1.168	14,111.615
Rb-86	12.837				12.837
Ru-103	.011				.011
S-35	1,011.320	.004			1,011.324
Sb-125	.108				.108
Sc-46	.170				.170
Se-75	3.499				3.499
Sn-113	3.474				3.474
Sr-85	.330				.330
Sr-90	.070		314.893		314.963
Tc-99	64.483				64.483
Tc-99m	14.126				14.126
Th-232	.020	.164			.184
Tl-201	10.380				10.380

Table B-3 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Tl-204	.953				.953
U-238	12.772	.276			13.048
U-NAT	.163		.080		.243
Xe-133	.004				.004
Y-90	5.656				5.656
Zn-65	.725				.725
Total	68,607.107	3,062.862	2,107.354	5.034	73,782.357

Industry

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	.002				.002
Ag-110m	127.084				127.084
Am-241	57.295	.003	1.424	3,858.958	3,917.680
Au-195	49.166				49.166
Ba-133	44.710	.005	.015		44.730
Ba-137	.001				.001
Bi-207	.008				.008
Bi-210	.305				.305
C-14	8,261.008	3.619	.010	16,153.792	24,418.429
Ca-45	102.067				102.067
Cd-109	135.396				135.396
Cd-113	.001				.001
Ce-141	5.541				5.541
Ce-144	.025	.091			.116
Cf-252	.034		.040		.074
Cl-36	4.581				4.581
Cl-38	.100				.100
Cm-242	.003				.003
Cm-243	.003				.003
Cm-244	.002				.002
Co-57	1,963.790	26.166	.001		1,989.957
Co-58	1.205	.015			1.220
Co-60	77,869.986	.269	10,600,933.272	40.000	10,678,843.527
Cr-51	326.718				326.718
Cs-134	64.264				64.264
Cs-136	.004				.004
Cs-137	9,543.729	319.817	180,372.643	1,799,346.201	1,989,582.390
Cu-67	.010				.010
Eu-152	.060				.060
Eu-154	2.049				2.049

Table B-3 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Fe-55	91.431				91.431
Fe-59	12.499				12.499
Ga-67	4.104				4.104
Gd-148		.001			.001
Gd-153	1.391				1.391
Ge-68	.151				.151
H-3	308,283.780	5,908.154	22,180,000.000	511,509.637	23,005,701.571
Hf-181	.023				.023
Hg-203	.006		.015		.021
I-123	.001				.001
I-125	21,876.216	.667			21,876.883
I-129	.143				.143
I-131	203.553				203.553
In-111	2.941				2.941
In-114	.579				.579
In-114m	.550				.550
Ir-192	18,905.652	3.002			18,908.654
Kr-85	19,847.978		1,000.000		20,847.978
Mn-54	19.915	.021	.015		19.951
Mo-99	.002				.002
Na-22	55.857	1.500	.015		57.372
Na-24	1.000				1.000
Nb-94	.018				.018
Nb-95	2.865	.003			2.868
Ni-59	.052				.052
Ni-63	2,775.274		65.367	4.677	2,845.318
Ni-65	10.000				10.000
Np-237	.020				.020
P-32	4,783.024				4,783.024
Pb-210	.002				.002
Pm-147	1,341.361		11.482		1,352.843
Po-210	549.527				549.527
Pt-193				.002	.002
Pu-238	3.809			60.000	63.809
Pu-239	11.937				11.937
Pu-240	5.938				5.938
Pu-241	194.438				194.438
Pu-242	.335				.335
Ra-226	4,862.351	2,940.324	27.492	15.499	7,845.666
Rb-83	.001				.001
Rb-86	24.348				24.348
Ru-103	2.949				2.949
Ru-106	.255	.027			.282
S-35	3,736.191	.028			3,736.219
Sb-124	.013				.013



Table B-3 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AC</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Sb-125	1.922	.047			1.969
Sc-46	10.648				10.648
Se-75	.307				.307
Sm-151	43.000				43.000
Sn-113	4.049	.002			4.051
Sn-119	.040				.040
Sn-125	.026				.026
Sr-85	4.541				4.541
Sr-90	664.417	4.032	13,872.368	32,000.000	46,540.817
Tc-99	48.190				48.190
Tc-99m	4.673				4.673
Te-123	.013				.013
Te-123m	.027				.027
Th-228		.018			.018
Th-230	.300	.011			.311
Th-232	1,003.041	4.863	.002		1,007.906
Th-NAT	.031				.031
Tl-201	6.279				6.279
Tl-204	48.327		1.775		50.102
U-234	3.978				3.978
U-235	1.103		.001		1.104
U-236	.054				.054
U-238	14,584.284	1.865	.002		14,586.151
U-DEP	334.920				334.920
U-NAT	13.611		.100		13.711
W-185	1.065				1.065
Xe-133	.001				.001
Y-88	.011		.015		.026
Y-90	42.254				42.254
Yb-169	.008				.008
Zn-65	5.405				5.405
Zr-95	20.507	.002			20.509
Total	503,018.659	9,214.552	32,976,286.054	2,362,988.766	35,851,508.031

Utilities

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	65.439				65.439
Ag-110m	99.659		1,261.500		1,361.159
Am-241	1.030				1.030
As-76	.032				.032
Ba-133	.002				.002

Table B-3 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ba-140	1.941				1.941
C-14	92.436	9.168	18.740	.518	120.862
Cd-109	.002				.002
Ce-141	4.742				4.742
Ce-144	49.513				49.513
Cm-242	3.127		.060		3.187
Cm-244	.337			.002	.339
Co-57	65.293	25.920			91.213
Co-58	19,449.148	23,645.124	319.500		43,413.772
Co-60	648,717.779	250,197.367	49,950.000	247,700.000	1,196,565.146
Cr-51	72,579.937	22,974.037	115.300		95,669.274
Cs-134	1,444.937	222.243	9,075.000	1.250	10,743.430
Cs-135	.063				.063
Cs-137	3,968.452	515.657	31,956.088	6.610	36,446.807
Cu-64	.001				.001
Fe-55	1,415,696.672	575,892.451	4,490.000	439,000.000	2,435,079.123
Fe-59	9,411.213	14,265.494			23,676.707
H-3	3,170.696	397.069	2.860	89,600.000	93,170.625
I-129	10.301	.026		.002	10.329
I-131	180.999				180.999
Mn-54	229,067.195	159,779.527	13,350.000	2,279.000	404,475.722
Nb-94				.002	.002
Nb-95	249.438				249.438
Ni-59				2,408.000	2,408.000
Ni-61	.360				.360
Ni-63	24,719.382	969.389	350.500	298,000.000	324,039.271
P-32		8,064.371			8,064.371
Pu-238	.538			.024	.562
Pu-239	.642			.002	.644
Pu-240				.002	.002
Pu-241	24.004		3.795	.060	27.859
Ra-226	217.909				217.909
Ru-103	22.278				22.278
Ru-106	2.351				2.351
Sb-124	183.074				183.074
Sb-125	272.213				272.213
Sr-89	8.128				8.128
Sr-90	79.690	22.140	17.050	.492	119.372
Tc-99	4.765	.774	.180	.002	5.721
U-238	.151				.151
Zn-65	14,317.290	6,736.222			21,053.512
Zr-95	148.301				148.301
Total	2,444,331.460	1,063,716.979	110,910.573	1,078,995.966	4,697,954.978

Table B-4. Richland 1987 Isotopic Distribution (mCi) by General Industry

Colleges

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ac-227	.001				.001
Ag-110m	1.909				1.909
Am-241	.072				.072
Au-193	.202				.202
Ba-133	.958				.958
Be-7	2.007				2.007
Bi-207	5.050				5.050
Bi-210	.003				.003
Br-82	.004				.004
C-14	3,019.968				3,019.968
Ca-45	593.308				593.308
Cd-109	35.107				35.107
Cd-115	.100				.100
Ce-141	31.077				31.077
Ce-144	.001				.001
Cl-36	43.358				43.358
Co-57	80.645				80.645
Co-58	2.447				2.447
Co-60	189.808	1,040.700			1,230.508
Cr-51	1,845.424				1,845.424
Cs-134	.443				.443
Cs-137	28.880				28.880
Cu-64	.002				.002
Cu-67	1.565				1.565
Eu-152	12.145				12.145
Eu-154	2.061				2.061
Eu-155	.001				.001
Fe-55	36.229				36.229
Fe-59	42.575				42.575
Ga-67	5.416				5.416
Ga-68	.004				.004
Gd-153	6.168				6.168
Ge-68	4.405				4.405
H-3	51,161.506				51,161.506
Hf-181	.140				.140
Hg-203	1.287				1.287
I-123	47.856				47.856
I-124	.022				.022
I-125	9,567.213				9,567.213
I-129	.010				.010

Table B-4 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
I-131	468.279				468.279
I-132	.800				.800
In-111	107.913				107.913
In-113m	.002				.002
In-114	.109				.109
In-114m	2.978				2.978
Ir-192	64.787				64.787
K-42	1.065				1.065
Kr-85	.050				.050
La-140	.003				.003
Mn-54	36.046				36.046
Mo-99	.500				.500
Na-22	318.907				318.907
Na-24	9.105				9.105
Nb-95	7.975				7.975
Ni-59		4,081.000			4,081.000
Ni-63	31.911	552.000			583.911
P-32	9,367.121				9,367.121
P-33	17.666				17.666
Pb-210	25.199				25.199
Pm-147	.008				.008
Po-209	.011				.011
Po-210	.731				.731
Pt-195	4.000				4.000
Ra-226	1.501			334.478	335.979
Rb-86	34.558				34.558
Ru-103	11.874				11.874
Ru-106	.001				.001
S-35	6,846.244				6,846.244
Sb-124	.193				.193
Sb-125	.392				.392
Sc-46	39.282				39.282
Sc-47	.003				.003
Se-75	27.775				27.775
Se-85	.001				.001
Sn-113	15.526				15.526
Sr-85	39.498				39.498
Sr-89	14.550				14.550
Sr-90	6.203				6.203
Ta-182	1.422				1.422
Tb-160	.001				.001
Tc-99	62.784				62.784
Tc-99m	37.631				37.631
Th-228	.049				.049
Th-232	.187				.187

Table B-4 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Th-NAT	.001				.001
Tl-201	26.320				26.320
Tl-204	.082				.082
U-235	.001				.001
U-238	5.858				5.858
U-NAT	.180				.180
Xe-133	.481				.481
Y-90	.103				.103
Yb-169	.058				.058
Zn-65	40.217				40.217
Zr-88	5.000				5.000
Zr-89	10.100				10.100
Total	84,492.619	5,673.700		334.478	90,500.797

Government

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	.004				.004
Ag-110m	4.593				4.593
Am-241	.002			14.711	14.713
Ba-140	.042				.042
C-14	89.841				89.841
Cd-109	.002				.002
Ce-141	.043				.043
Ce-144	.042	.002			.044
Co-58	176.869				176.869
Co-60	3,545.695				3,545.695
Cr-51	12.257				12.257
Cs-134	.118				.118
Cs-137	.245	.002			.247
Eu-152	5.000				5.000
Fe-55	3,534.760				3,534.760
Fe-59	1.426				1.426
H-3	90,252.706		975,536.664		1,065,789.370
I-125	1.412				1.412
I-129	.045				.045
I-131	.042				.042
Kr-85	40.332				40.332
Mn-54	600.984				600.984
Nb-95	.098				.098
Nd-147	.042				.042



Table B-4 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ni-63	216.792				216.792
P-32	9.876				9.876
Pa-233	.001				.001
Pm-147	6,314.599				6,314.599
Po-210	.005				.005
Pr-143	.041				.041
Pu-239	.050				.050
Ra-226	37.082	12.537		1,383.050	1,432.669
Ru-103	.042				.042
Ru-106	.043				.043
S-35	35.907				35.907
Sb-125	.001				.001
Sr-89	.042				.042
Sr-90	.240		12.150		12.390
Tc-99	.044				.044
Te-125m	.042				.042
Te-127m	.042				.042
Te-129m	.042				.042
Th-228	.018				.018
Th-232	.188				.188
U-235	.003				.003
U-238	1.784	.142			1.784
Xe-133	.018				.018
Y-91	.043				.043
Zn-65	3.171				3.171
Zr-95	.198				.198
<b>Total</b>	<b>104,886.772</b>	<b>12.683</b>	<b>975,548.814</b>	<b>1,397.761</b>	<b>1,081,846.030</b>

Hospitals

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-111	.200				.200
Am-241	.164				.164
Ba-133	.012				.012
C-14	899.840	2.032			901.872
Ca-45	54.342	18.033			72.375
Ce-47	.101				.101
Cd-109	.753				.753
Ce-141	10.845				10.845
Cl-36	6.480	.084			6.564
Co-57	280.357	1.108	1.000		282.465

Table B-4 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Co-58	1.533				1.533
Co-60	.361				.361
Cr-51	2,138.642	.033			2,138.675
Cs-134	.500				.500
Cs-137	4.164		3.000		7.164
Cu-67	.002				.002
Eu-152	.900				.900
Fe-55	4.628				4.628
Fe-59	34.505				34.505
Ga-67	57.092				57.092
Gd-153	10.040				10.040
Gd-159	.030				.030
Ge-68	.380				.380
H-3	12,323.692	93.359			12,417.051
Hg-203	1.000				1.000
I-123	18.797				18.797
I-125	12,161.498	6.912			12,168.410
I-129	.154				.154
I-131	266.243				266.243
In-111	64.348				64.348
In-114m	3.760				3.760
Ir-192	267.861				267.861
Kr-85	.099				.099
Mn-54	.026	.029			.055
Mo-99	105.636				105.636
Na-22	19.277	.145			19.422
Nb-95	60.852				60.852
Ni-63	33.999				33.999
P-32	2,669.322	.311			2,669.633
Pb-203	.015				.015
Pb-210	1.638				1.638
Pm-147	1.885				1.885
Ra-226	.206		.005	845.165	845.376
Rb-86	50.380				50.380
Ru-103	49.861				49.861
S-35	2,260.255	9.469			2,269.724
Sc-46	49.297	.001			49.298
Se-75	5.941	.002			5.943
Sn-113	69.880	.001			69.881
Sn-119	8.000				8.000
Sr-85	14.456				14.456
Sr-89	15.808				15.808
Sr-90	1.230				1.230
Tc-99	47.401				47.401
Tc-99m	228.164				228.164

Table B-4 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Th-232	.002				.002
Tl-201	47.571				47.571
U-238	1.275				1.275
U-NAT	.021				.021
Xe-127	4.688				4.688
Xe-133	70.258				70.258
Y-90	1.000				1.000
Yb-169	7.847				7.847
Zn-65	1.933				1.933
Total	34,441.447	131.519	4.005	845.165	35,422.136

Industry

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ac-228	.052				.052
Ag-110m	92.742				92.742
Am-241	26.086	.001		86.216	112.303
Am-243	.030				.030
Am-244	.008				.008
Au-195	41.762				41.762
Ba-133	117.593				117.593
Be-7	.643				.643
Bi-207	.090				.090
C-14	85,448.652	5.600		8,362.229	93,816.481
Ca-45	170.914				170.914
Ca-47	.013				.013
Cd-109	161.276				161.276
Ce-139	.017				.017
Ce-141	4.324				4.324
Ce-144	42.467				42.467
Cl-36	101.860				101.860
Cm-244	.009				.009
Co-57	2,459.431				2,459.431
Co-58	91.424				91.424
Co-59	5.000				5.000
Co-60	1,538.870		.080		1,538.950
Cr-51	2,385.606				2,385.606
Cs-133	5.000				5.000
Cs-134	74.472				74.472
Cs-137	4,761.137	70.000	6,719.994	129,975.000	141,526.131
Eu-152	11.030				11.030

Table B-4 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Eu-154	2.618				2.618
Eu-155	.798				.798
Fe-55	1,339.217				1,339.217
Fe-59	183.542				183.542
Ga-67	4.121				4.121
Ga-68	.266				.266
Gd-153	120.578				120.578
Ge-68	29.733				29.733
H-3	1,691,755.043		25,996,035.300	850,465.368	28,538,255.711
Hf-181	.003				.003
Hg-203	5.893				5.893
I-123	130.162				130.162
I-125	25,005.055				25,005.055
I-129	.674				.674
I-131	688.571		100.000		788.571
In-111	138.252				138.252
In-114	.002				.002
In-114m	.708				.708
Ir-192	10.940				10.940
K-40	.016				.016
Kr-85	9,461.888	20.000			9,481.888
Mn-54	58.976				58.976
Mo-99	.001				.001
Na-22	171.874				171.874
Na-24	.048				.048
Nb-94	.010				.010
Nb-95	11.597				11.597
Nb-97	2.055				2.055
Ni-59	1.180				1.180
Ni-63	3,554.748		9,266.000		12,820.748
Np-237	.007				.007
P-32	70,628.205				70,628.205
P-33	.075				.075
Pa-233	.007				.007
Pb-210	.988				.988
Pb-212	.059				.059
Pm-143	.001				.001
Pm-147	4,056.597				4,056.597
Po-210	46.437				46.437
Pu-238	5.005			1.500	6.505
Pu-239	29.449			14.710	44.159
Pu-240	14.514			6.210	20.724
Pu-241	443.645			180.010	623.655
Pu-242	.275				.275
Ra-226	250.637	2.974	3.500	50.000	307.111

Table B-4 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Rb-83	19.000				19.000
Rb-86	6.947				6.947
Re-184	.020				.020
Ru-103	13.423				13.423
Ru-106	9.774				9.774
S-35	72,486.816				72,486.816
Sb-124	2.960				2.960
Sb-125	14.393				14.393
Sc-46	6.588				6.588
Se-75	36.632				36.632
Si-32	.005				.005
Sn-113	161.926				161.926
Sn-119	8.126				8.126
Sr-85	5.237				5.237
Sr-89	.086				.086
Sr-90	102.558		880.000		982.558
Sr-92	.660				.660
Ta-182	2.844				2.844
Tb-158	.037				.037
Tc-99	174.683				174.683
Tc-99m	19.103				19.103
Te-123m	28.000				28.000
Th-228	.165				.165
Th-229	.004				.004
Th-230	.140				.140
Th-232	74.139				74.139
Th-NAT	9,859.249	494.290			10,353.539
Tl-201	.505				.505
Tl-202	2.234				2.234
Tl-204	8.628				8.628
Tl-208	.077				.077
U-234	19.492			.350	19.842
U-235	65.253			.026	65.279
U-236	.078				.078
U-238	28,571.929			.085	28,572.014
U-NAT	2,849.764				2,849.764
Xe-133	.037				.037
Y-88	.406				.406
Y-90	26.820				26.820
Yb-169	.012				.012
Zn-65	8,964.528				8,964.528
Zr-95	.257				.257
Zr-97	.075				.075
Total	2,029,238.588	592.865	26,013,004.874	989,141.704	29,031,978.031



Table B-4 (Continued)

## Utilities

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	17.169	.110			17.279
Ag-110m	9,877.715	3,007.644	4,780.870	1,432.000	19,098.229
Am-241	51.419	4.329	16.058	23.074	94.880
Am-243	.004			.001	.005
Ba-133	.009				.009
Ba-140	1,173.692	1.615	4,650.874	372.300	6,198.481
Be-7	6.298		9,347.936		9,354.234
Bi-207	.003				.003
C-14	6,891.362	580.046	1,074.516	184.047	8,729.971
Cd-109	8,339.144	.039			8,339.182
Ce-141	156.323		516.485		672.808
Ce-144	2,414.287	580.810	639.962	772.400	4,407.459
Cm-242	22.246	6.734	48.096	34.184	111.260
Cm-243	2.387	.003	19.831	.162	22.383
Cm-244	1.991	4.752	5.216	.497	12.456
Co-56		.010			.010
Co-57	433.008	67.781	3,310.996		3,811.785
Co-58	91,066.418	12,178.880	872,760.100	90,310.000	1,066,315.398
Co-60	306,105.649	32,449.818	326,724.382	6,598,886.000	7,264,165.849
Cr-51	73,935.470	4,012.013	120,485.222	6,570.000	205,002.705
Cs-127		.150			.150
Cs-131	1.730				1.730
Cs-134	17,076.575	5,490.063	344,230.000	36,468.000	403,264.638
Cs-136	47.913				47.913
Cs-137	56,430.021	13,696.475	801,350.051	68,353.200	939,829.747
Eu-154	.002				.002
Eu-155	41.816		9.060	42.600	93.476
Fe-55	142,082.530	20,731.898	319,609.214	4,603,096.500	5,085,520.142
Fe-59	1,888.396	21.475	9,536.400		11,446.271
H-3	59,108.200	6,251.885	14,497.324	932.000	80,789.409
Hf-181	173.672				173.672
I-125	.080				.080
I-129	177.246	9.528	22.796	98.703	308.273
I-131	2,294.351	.012	19,759.303		22,053.666
I-133	101.328		2.930		104.258
I-135	1.140				1.140
Kr-85	.090				.090
La-140	1,675.680	.865	6,125.340		7,801.885
Mn-54	49,907.399	9,882.747	116,464.060	315,322.700	491,576.906
Mo-99	.128				.128
Na-24	.853				.853
Nb-94				.644	.644
Nb-95	45,362.637	720.569	284.138	1,619.038	47,986.382

Table B-4 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Nb-97	8.498				8.498
Ni-59	629.577	27.840	116.350	5,140.000	5,913.767
Ni-63	32,161.938	4,753.726	117,199.983	169,961.100	324,076.747
Ni-63AM				167,647.000	167,647.000
Ni-65	6.640				6.640
Np-237	1.426			.031	1.457
Pb-210	.002				.002
Pb-214	.210				.210
Pm-147	9,595.763		204.902	559.500	10,360.165
Pu-238	10.115	7.605	26.573	2.026	46.319
Pu-239	34.482	8.955	26.673	14.531	84.641
Pu-240	8.441	.008	1.260	7.675	17.384
Pu-241	2,141.829	326.793	1,542.694	1,199.960	5,211.276
Pu-242	1.482			.031	1.513
Ra-226	.040			75.000	75.040
Ru-103	44.363	53.560	.276	942.000	1,040.199
Ru-106	2,185.847		40.413	157.800	2,384.060
Sb-122	.057				.057
Sb-124	5,575.357	80,996.282	64,756.000		151,327.639
Sb-125	40,154.481	307.622	6,145.230	616.000	47,223.333
Sn-113	1,577.638	6.970	1,524.600		3,109.208
Sr-89	474.097	1.670	9,474.890	300.000	10,250.657
Sr-90	18,095.243	61.901	27,591.043	6,628.693	52,376.880
Sr-91	23.110				23.110
Sr-92	57.009				57.009
Sr-95	.566				.566
Ta-182	.016				.016
Tc-99	250.852	16.830	42.392	133.252	443.326
Tc-99m	.439				.439
Te-125m	9,131.406	1.121	639.952	26.700	9,799.179
U-232				.002	.002
U-233				.002	.002
U-234	.596		.058	.294	.948
U-235	.670		.008	.009	.687
U-236				.002	.002
U-238	.720		.018	.043	.781
Xe-131m	4.331				4.331
Xe-133	39.558				39.558
Zn-63	.370				.370
Zn-65	705,168.100	1,021.634	32,604.610		738,794.344
Zr-95	25,529.244	186.410	209.315	635.000	26,559.969
Zr-97	1.470				1.470
Total	1,729,782.364	197,479.167	3,238,418.400	12,078,564.701	17,244,244.632

Table B-5. Richland 1988 Isotopic Distribution (mCi) by General Industry

Colleges

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-108	.001				.001
Ag-108m	.001				.001
Ag-110	.002				.002
Ag-110m	18.486				18.486
Am-241	3.034				3.034
Am-247	.073				.073
Au-195	.005				.005
Ba-133	10.012				10.012
Be-7	.034				.034
Bi-205	.002				.002
Bi-207	.019				.019
Bi-210	.002				.002
C-14	2,851.595				2,851.595
Ca-45	691.443				691.443
Ca-47	.005				.005
Cd-107	.011				.011
Cd-109	6.620				6.620
Ce-141	22.205				22.205
Ce-144	.211				.211
Cf-252	.144				.144
Cl-36	159.582				159.582
Co-57	99.368				99.368
Co-58	1.449				1.449
Co-60	41.716	406.550			448.266
Cr-51	1,304.106				1,304.106
Cs-134	.098	1.600			1.698
Cs-137	155.635				155.635
Cu-64	.011				.011
Cu-67	.015				.015
Eu-152	4.877	95.760			100.637
Eu-154	6.447	11.170			17.617
Eu-155	.518				.518
Fe-55	10.762				10.762
Fe-59	16.051				16.051
Ga-67	.363				.363
Ga-68	.001				.001
Gd-153	10.993				10.993
Ge-68	17.590				17.590
H-3	97,009.756				97,009.756

Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Hf-181	.003				.003
Hg-203	1.205				1.205
I-121	.003				.003
I-123	2.374				2.374
I-125	7,563.139				7,563.139
I-126	.005				.005
I-129	.224				.224
I-131	394.754				394.754
In-111	21.162				21.162
In-113	.008				.008
In-114	2.275				2.275
In-114m	.664				.664
Ir-192	.121				.121
K-42	.001				.001
Kr-85	1.010				1.010
Mn-54	3.683	3.820			7.503
Mn-57	.001				.001
Na-22	463.762				463.762
Na-24	34.088				34.088
Nb-95	6.436				6.436
Ni-63	69.010				69.010
P-32	6,630.959				6,630.959
P-33	1.000				1.000
Pa-233	.007				.007
Pb-210	18.932				18.932
Pm-147	.001				.001
Po-210	.712				.712
Pu-239	.002				.002
Pu-241	.197				.197
Ra-224	.010				.010
Ra-226	3.700				3.700
Rb-86	56.542				56.542
Ru-103	13.515				13.515
Ru-106	.090				.090
S-35	9,520.375				9,520.375
Sb-122	.002				.002
Sb-124	.055				.055
Sb-125	.020				.020
Sc-46	38.903				38.903
Sc-47	.001				.001
Sc-50	.001				.001
Se-75	18.164				18.164

Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Sn-113	26.640				26.640
Sr-85	30.613				30.613
Sr-90	1.887		35.550		37.437
Ta-182	.830				.830
Tc-99	38.065				38.065
Tc-99m	177.609				177.609
Te-123	.001				.001
Th-228	.117				.117
Th-230	.001				.001
Th-232	.754				.754
Th-NAT	.042				.042
Tl-201	19.851				19.851
Tl-202	1.100				1.100
Tl-204	3.806				3.806
U-232	.401				.401
U-235	.025				.025
U-238	10.800				10.800
U-NAT	21.208				21.208
W-181	.001				.001
W-188	.001				.001
Xe-133	.106				.106
Y-88	.032				.032
Y-90	.025				.025
Zn-65	37.630				37.630
Zr-85	.001				.001
Zr-89	5.000				5.000
Zr-95	.089				.089
Total	127,686.994	518.900	35.550		128,241.444

Government

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	.476				.476
Am-241	4.094	.001			4.095
As-73	.909				.909
Au-195	.051				.051
Ba-133	.040				.040
Bi-210		.001			.001
C-14	248.519	394.000			642.519



Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ca-45	.982				.982
Cd-109	.376				.376
Ce-141	.001				.001
Ce-144	.001	.001			.002
Cl-36	.875				.875
Co-37	84.489				84.489
Co-58	443.714	984.000			1,427.714
Co-60	8,879.876	19,680.300			28,560.176
Cr-51	1.200				1.200
Cs-134	.012				.012
Cs-137	4.334				4.334
Eu-152	.133				.133
Eu-154	.130				.130
Fe-55	8,873.523	19,680.000			28,553.523
Fe-59	3.289				3.289
H-3	70,350.204	3.000	111,236.000		181,589.204
I-125	14.452				14.452
I-129	.002	.004			.006
I-131	.001				.001
Kr-85	74.752				74.752
Mn-54	1,508.151	3,346.000			4,854.151
Na-22	.003	.001			.004
Ni-59		.140			.140
Ni-63	508.917	984.000			1,492.917
P-32	3.254				3.254
Pb-210	.014				.014
Pm-145		.001			.001
Pm-147	174.731				174.731
Po-210	.122				.122
Pt-193		.001			.001
Pu-239	.040	.348			.388
Ra-226	42.574	.140	.016	428.990	471.720
Re-187	.001				.001
S-35	1.186				1.186
Se-75	.100				.100
Sm-145		.001			.001
Sr-90	2.888	.001			2.889

Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Tc-99	.002	.005			.007
Th-232	1.770				1.770
Th-NAT	2.198				2.198
Tl-204		.001			.001
U-233	.001				.001
U-234		.001			.001
U-235	.001				.001
U-238	5.896	1.972			7.868
U-NAT	1.044				1.044
Zn-65	1.490				1.490
Total	91,240.817	45,073.919	111,236.016	428.990	247,979.742

### Hospitals

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	40.448				40.448
Ba-133	.020				.020
C-14	858.685				858.685
Ca-45	70.795				70.795
Ca-47	.253				.253
Cd-109	.443				.443
Ce-141	27.938				27.938
Cl-36	14.444				14.444
Co-57	369.835				369.835
Co-58	.307				.307
Co-60	.443				.443
Cr-51	2,127.664				2,127.664
Cs-137	.452				.452
Fe-55	2.868				2.868
Fe-59	22.876				22.876
Ga-67	63.111				63.111
Gd-153	1.663				1.663
Ge-68	.001				.001
H-3	53,957.110				53,957.110
Hg-203	8.900				8.900
I-123	29.686				29.686
I-125	9,423.215				9,423.215
I-129	.030				.030
I-131	241.596				241.596
In-111	67.981				67.981

Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
In-114	.720				.720
In-114m	.440				.440
Ir-192	4.272				4.272
Mn-54	.555				.555
Mo-99	7.640				7.640
Na-22	33.813				33.813
Nb-88	.010				.010
Nb-93	.004				.004
Nb-95	17.072				17.072
P-32	3,502.912				3,502.912
P-33	2.750				2.750
Pb-203	.001				.001
Pb-210	.025				.025
Po-208	.001				.001
Po-210	.002				.002
Ra-226	.437				.437
Rb-83	.362				.362
Rb-86	54.805				54.805
Ru-103	16.228				16.228
S-35	2,226.335				2,226.335
Sc-46	37.500				37.500
Sc-47	.004				.004
Se-75	4.109				4.109
Sn-113	42.330				42.330
Sn-119	4.500				4.500
Sr-81	.001				.001
Sr-85	15.275				15.275
Sr-89	.017				.017
Sr-90	21.920				21.920
Tc-99	12.050				12.050
Tc-99m	1,241.075				1,241.075
Th-232	.003				.003
Tl-201	364.602				364.602
Tl-210	.002				.002
U-238	.006				.006
Xe-127	13.256				13.256
Xe-131	81.600				81.600
Xe-133	810.554				810.554
Y-90	1.750				1.750
Yb-169	.280				.280
Zn-65	1.152				1.152
Total	75,851.134				75,851.134

Table B-5 (Continued)

## Industry

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-108m	10.121				10.121
Ag-110	.016				.016
Ag-110m	12.212				12.212
Am-241	136.767			30.000	166.767
Au-195	1.369				1.369
Ba-133	25.535				25.535
Ba-140	.001				.001
Be-7	.018				.018
Bi-207	.438				.438
Bi-210	.011				.011
C-14	69,594.362	2.000		3,298.404	72,894.766
Ca-45	441.273				441.273
Ca-47	.004				.004
Cd-109	219.537				219.537
Cd-115	.001				.001
Ce-139	.063				.063
Ce-141	4.148				4.148
Ce-144	4.097				4.097
Cf-252	.702				.702
Cl-36	150.459				150.459
Cm-242	.099				.099
Cm-244	.060				.060
Cu-56	.795				.795
Co-57	1,162.168				1,162.168
Co-58	124.556				124.556
Co-60	2,926.599	.005	12.800	457.632	3,397.036
Cr-51	2,641.716				2,641.716
Cs-134	4.153				4.153
Cs-137	215.134	.001	950.600		1,165.735
Cu-67	.001				.001
Dy-165	.100				.100
Eu-152	.649				.649
Eu-154	1.263				1.263
Eu-155	.027				.027
Fe-55	4,360.808	.700		71.848	4,433.356
Fe-59	7.945				7.945
Ga-67	3.501				3.501
Ga-68	1.012				1.012
Gd-153	138.317				138.317
Ge-68	7.337				7.337
H-3	2,143,680.626	338.300	20,715,000.000	.003	22,859,018.929

Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Hf-181	.065				.065
Hg-203	.145				.145
I-121	.001				.001
I-123	.004				.004
I-125	24,372.383				24,372.383
I-129	.288			.001	.289
I-131	355.429				355.429
I-137	.400				.400
In-111	66.834				66.834
In-114	.001				.001
In-114m	.575				.575
Ir-192	93.399				93.399
K-40	.085				.085
Kr-85	5,216.400				5,216.400
Mn-54	236.239				236.239
Na-22	107.940				107.940
Ne-24	.043				.043
Nb-94	.721				.721
Nb-95	26.583				26.583
Ni-59	3.344				3.344
Ni-63	4,160.104				4,160.104
P-32	62,902.193				62,902.193
P-33	.931				.931
Pa-234	.001				.001
Pb-203	.001				.001
Po-210	.012				.012
Pb-212	.002				.002
Pm-147	1,014.601				1,014.601
Po-210	786.955				786.955
Pu-236	.010				.010
Pu-238	2.627				2.627
Pu-239	2.773				2.773
Pu-240	.604				.604
Pu-241	12.628				12.628
Pu-242	.063				.063
Ra-226	121.998	.010		146.400	268.408
Ra-228	.014				.014
Rb-83	18.000				18.000
Rb-86	13.192				13.192
Rh-106	.130				.130
Ru-103	3.984				3.984
Ru-106	5.091			6.900	11.991
S-35	89,104.664				89,104.664
Sb-122	.380				.380
Sb-124	.768				.768



Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Sb-125	7.373				7.373
Sc-46	65.239				65.239
Se-75	6.230				6.230
Sn-113	54.440				54.440
Sn-119	.001				.001
Sn-119m	185.915				185.915
Sr-85	14.556				14.556
Sr-89	9.279				9.279
Sr-90	23.395	.005	1,410.101		1,433.501
Ta-182	.737				.737
Tc-99	435.565			.002	435.567
Tc-99m	48.181				48.181
Te-123	16.018				16.018
Te-123m	40.000				40.000
Te-125	4.645				4.645
Th-228	.775				.775
Th-229	.010				.010
Th-230	.042				.042
Th-232	498.862	.014			506.876
Th-NAT	21,496.816				21,496.816
Tl-201	.004				.004
Tl-202	2.020				2.020
Tl-204	1.777				1.777
Tl-208	.004				.004
U-234	.232				.232
U-235	62.855				62.855
U-236	.002				.002
U-238	13,943.093	.400			13,943.493
U-NAT	3,274.500				3,274.500
Xe-133	1.813				1.813
Y-88	3.335				3.335
Y-90	11.792				11.792
Yb-169	.009				.009
Zn-65	680.084				680.084
Zr-95	5.644				5.644
Total	2,455,405.848	341.435	20,717,373.501	4,011.190	23,177,131.974

Utilities

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	.290				.290
Ag-110m	7,961.546	13,129.750	48,918.000	36,931.558	106,940.850

Table P-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Am-241	26.801	.206	3.551	68.332	98.890
Ba-140	289.460	111.000	.005		400.465
Be-7	14.094			207.876	221.970
C-14	9,126.203	343.888	1,497.381	1,808.462	12,775.934
Cd-109	6.960				6.960
Ce-141	507.520	.191		26.660	534.371
Ce-144	2,179.689	8.230	1,451.566	4,618.125	8,257.610
Cm-242	21.629	1.409	1.462	4.556	29.056
Cm-243	.360	.025	.008	.006	.399
Cm-244	1.678	.158	.662	1.542	4.040
Co-57	65.907	233.362	779.735	427.988	1,506.992
Co-58	50,194.930	53,901.732	144,802.634	107,887.901	356,787.197
Co-60	245,364.479	113,518.270	180,542.399	196,826.301	736,251.449
Cr-51	82,413.605	40,559.004	2,506.975	8,064.042	133,543.626
Cs-134	29,946.702	2,529.114	295,065.723	774,813.655	1,102,355.404
Cs-136	35.323		.005		35.328
Cs-137	56,770.795	3,478.619	545,576.203	2,147,759.250	2,753,584.867
Cs-144	2.469				2.469
Eu-154	.604				.604
Eu-155	42.896		4.510	104.260	151.666
Fe-55	145,423.024	150,314.112	275,391.274	225,283.268	796,411.678
Fe-59	6,007.774	1,853.800	44.399	401.903	8,307.876
H-3	30,256.864	382.815	2,845.467	2,215.005	35,700.151
Hf-181	59.901		4.760		64.661
I-125	.002				.002
I-129	28.503	.265	3.054	18.024	49.846
I-131	1,518.550	153.700	6,657.291	3,520.000	11,849.541
I-133	2.000				2.000
La-140	380.224	120.000	.006	592.000	1,092.230
Mn-54	72,585.635	10,643.784	35,565.825	49,543.825	168,339.069
Mo-99	.133				.133
Nb-94	3.239				3.239
Nb-95	11,887.953	7,505.220	5,382.517	5,412.697	30,188.387
Ni-59	3.156	44.146	217.006	34.847	305.155
Ni-63	15,565.808	9,744.790	59,936.459	164,952.363	250,199.420
Pm-147	5,464.464		162.690	153,302.600	158,929.754
Pu-238	5.982	.372	1.370	13.230	20.954
Pu-239	25.435	.390	4.814	79.136	109.775
Pu-240	7.827	.014	1.140	22.107	31.088
Pu-241	797.626	37.335	220.852	2,439.680	3,495.493
Pu-242	.574		1.900	.015	2.489
Ru-103	15.922		.008	.823	16.753

Table B-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ru-106	1,280.224		18.439	7,854.050	9,152.713
Sb-122	.075				.075
Sb-124	9,412.659	3,350.200	69,310.900	1,130.400	83,204.159
Sb-125	17,001.193	569.755	4,960.580	5,724.925	28,256.453
Se-75	.274				.274
Sn-113	326.188	283.000	670.778	25.623	1,305.589
Sr-89	90.500	18.776	553.076	2,381.243	3,043.595
Sr-90	13,130.881	16.923	346,587.638	714,605.644	1,074,341.086
Sr-92	5.420				5.420
Tc-99	133.441	3.538	24.418	425.147	586.544
Tc-99m	.059				.059
Te-125	.309				.309
Te-125m	4,508.682	19.700	717.100	820.010	6,065.492
Th-230			.001		.001
U-233	.002				.002
U-234	.549		.022	.714	1.285
U-235	.569		.011	4.605	5.185
U-238	.572		.015	.231	.818
Xe-131			.039		.039
Xe-131m	13.299	4.925	.152	14.100	32.476
Xe-133	10.200				10.200
Y-90	1.483				1.483
Zn-65	350,778.338	57,218.410	128,618.677	30.216	536,645.641
Zr-95	6,270.535	5,432.230	2,653.078	2,790.610	17,146.453
Zr-97	.060				.060
Total	1,178,056.048	475,533.158	2,161,706.512	4,623,189.765	8,438,485.483

Table B-6. Richland 1989 Isotopic Distribution (mCi) by General Industry

Colleges

Nuclide	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-105	0.002				0.002
Ag-110	175.044				175.044
Ag-110m	54.469				54.469
Am-241	3.812				3.812
Am-243	0.001				0.001
As-73	0.510				0.510
Au-195	0.020				0.020
Ba-133	4.186				4.186
Ba-140	0.001				0.001
Bi-205	0.014				0.014
Bi-206	0.025				0.025
Bi-207	0.001				0.001
Bi-210	0.001				0.001
Br-82	0.002				0.002
C-14	3,058.166			299.963	3,358.129
C-15	0.060				0.060
Ca-45	519.542				519.542
Ca-47	0.076				0.076
Cd-109	6.573				6.573
Cd-115	0.011				0.011
Ce-137	2.793				2.793
Ce-141	346.187				346.187
Ce-144	3.535				3.535
Cf-252	0.002				0.002
Cl-36	38.737				38.737
Co-56	0.036				0.036
Co-57	189.974				189.974
Co-58	0.153				0.153
Co-60	1,913.323				1,913.323
Cr-51	2,715.880				2,715.880
Cs-134	5.124				5.124
Cs-137	26.663				26.663
Cs-141	0.001				0.001
Cu-64	0.007				0.007
Cu-67	3.203				3.203
Eu-151	0.001				0.001
Eu-152	15.925				15.925
Eu-154	1.856				1.856
Eu-155	0.083				0.083
Fe-55	37.251				37.251

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Fe-59	25.188				25.188
Ga-67	0.522				0.522
Ga-68	7.008				7.008
Gd-153	15.509				15.509
Ge-68	23.856				23.856
H-3	107,526.697			3.133	107,529.830
Hf-175	0.002				0.002
Hf-181	0.521				0.521
Hg-203	0.265				0.265
I-123	0.046				0.046
I-125	10,794.371				10,794.371
I-129	0.032				0.032
I-131	1,184.105				1,184.105
In-111	1.925				1.925
In-113	0.072				0.072
In-114	5.054				5.054
In-113m	0.858				0.858
Ir-192	0.002				0.002
La-140	0.012				0.012
Mn-51	0.001				0.001
Mn-54	135.419				135.419
Mo-99	3.552				3.552
Na-22	140.221				140.221
Na-24	0.015				0.015
Nb-95	554.804				554.804
Nb-96	0.010				0.010
Ni-63	154.562				154.562
P-32	8,050.017				8,050.017
P-33	3.311				3.311
Pa-231	0.003				0.003
Pb-206	0.010				0.010
Pb-210	0.547				0.547
Pm-147	1.415				1.415
Po-208	0.010				0.010
Po-209	0.011				0.011
Po-210	12.078				12.078
Pu-239	0.054				0.054
Pu-241	0.043				0.043
Ra-226	3.313			10.000	13.313
Rb-86	57.921				57.921
Rb-95	0.001				0.001
Re-187	0.002				0.002
Ru-103	199.169				199.169
S-35	14,034.785				14,034.785
Sb-124	0.729				0.729



Table B-6 (Continued)

Nuclide	Class AU	Class A5	Class B	Class C	Total
Sb-125	0.017				0.017
Sc-41	0.108				0.108
Sc-46	538.629				538.629
Sc-50	0.010				0.010
Se-75	2,386.658				2,386.658
Sm-153	31.410				31.410
Sn-113	31.398				31.398
Sn-117	0.076				0.076
Sn-119m	0.001				0.001
Sr-85	592.347				592.347
Sr-89	5.222				5.222
Sr-90	15.373				15.373
Sr-95	0.002				0.002
Ta-179	0.002				0.002
Ta-182	0.974				0.974
Tb-157	0.002				0.002
Tb-158	0.002				0.002
Tc-99	83.032				83.032
Tc-99m	81.028				81.028
Te-132	0.001				0.001
Th-227	0.010				0.010
Th-228	0.064				0.064
Th-230	0.001				0.001
Th-232	1.235				1.235
Th-NAT	0.024				0.024
Tl-201	49.533				49.533
Tl-204	3.455				3.455
Tm-170	0.010				0.010
U-233	0.011				0.011
U-235	0.041				0.041
U-238	10.338				10.338
U-NAT	3.920				3.920
W-181	0.030				0.030
Xe-133	4.040				4.040
Y-88	1.370				1.370
Y-90	0.082				0.082
Zn-65	182.603				182.603
Zr-95	0.105				0.105
Total	156,084.462			313.096	156,397.558

Table B-6 (Continued)

Government

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Am-241	0.665	0.425		25.000	26.090
As-73	0.020				0.020
Ba-133	1.017				1.017
Bi-204	5.000				5.000
Bi-207	1.100				1.100
C-14	110.041				110.041
Ca-45	1.632				1.632
Cd-109	0.198				0.198
Ce-141	0.003				0.003
Ce-144	0.003				0.003
Cf-252	0.005				0.005
Cm-244	0.505				0.505
Co-56	0.466				0.466
Co-57	0.062				0.062
Co-58	46.884				46.884
Co-60	956.101				956.101
Cr-51	1.067				1.067
Cs-134	0.016				0.016
Cs-137	1.721				1.721
Eu-154	0.003				0.003
Eu-155	0.001				0.001
Fe-55	938.153				938.153
Fe-59	0.071				0.071
H-3	21,606.963		11,550.000		33,156.963
Hg-203	0.002				0.002
I-125	37.841				37.841
I-129	0.001				0.001
I-131	0.002				0.002
In-111	0.301				0.301
Ir-192	0.011				0.011
Kr-85	134.505				134.505
Mn-54	159.174				159.174
Na-22	0.573				0.573
Nb-94	0.191				0.191
Ni-63	92.421				92.421
P-32	30.151				30.151
Pb-210	76.099				76.099
Pm-147	792.900				792.900
Po-208	0.002				0.002
Po-210	0.011				0.011
Pu-236	0.002				0.002
Pu-238	0.001				0.001
Pu-239	2.743	0.086			2.829
Pu-240	0.001				0.001

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Pu-242	0.001				0.001
Ra-226	235.919	1.710	1.459	496.229	735.317
Ra-228	0.003				0.003
Ru-106	0.002				0.002
S-35	8.008				8.008
Sb-124	10.000				10.000
Sb-125	0.003				0.003
Sc-46	1.502				1.502
Se-75	0.053				0.053
Sm-151	1,488.700				1,488.700
Sn-113	0.007				0.007
Sr-85	1.502				1.502
Sr-89	0.005				0.005
Sr-90	6.004				6.004
Th-228	0.001				0.001
Th-229	0.002				0.002
Th-230	0.001				0.001
Th-232	0.358				0.358
Th-NAT	0.002				0.002
Tl-204	2.128				2.128
U-235	0.088				0.088
U-238	262.187				262.187
U-DEP	0.636				0.636
U-NAT	0.008				0.008
Y-88	0.009				0.009
Zn-65	0.017				0.017
Total	27,015.775	2.221	11,551.459	521.229	39,090.684

Hospitals

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	2.100				2.100
Ag-110m	0.052				0.052
Am-241	0.015				0.015
Au-195	2.151				2.151
Ba-133	0.002				0.002
C-14	1,302.610		4.000		1,306.610
Ca-45	342.112				342.112
Ca-47	0.049				0.049
Cd-109	0.004				0.004
Ce-141	12.625				12.625

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ce-144	0.017				0.017
Ce-147	0.170				0.170
Cf-252	0.001				0.001
Cl-36	14.752				14.752
Cm-244	0.700				0.700
Co-56	0.001				0.001
Co-57	352.761				352.761
Co-58	0.327				0.327
Co-60	5.212				5.212
Cr-51	2,339.340				2,339.340
Cs-134	42.056				42.056
Cs-137	110.408				110.408
Cu-67	0.001				0.001
Eu-152	0.106				0.106
Eu-154	0.010				0.010
Eu-155	0.010				0.010
Fe-55	5.388				5.388
Fe-59	78.087				78.087
Ga-67	97.345				97.345
Gd-153	34.287				34.287
H-3	46,868.594		0.938		46,869.532
Hg-203	0.410				0.410
I-121	3.664				3.664
I-123	73.103				73.103
I-125	11,508.519				11,508.519
I-129	1.624				1.624
I-131	297.831				297.831
In-111	77.888				77.888
In-114	0.613				0.613
In-114m	1.410				1.410
Ir-192	1.201				1.201
Mn-54	0.888				0.888
Mo-99	0.252				0.252
Na-22	21.910				21.910
Nb-95	5.084				5.084
Ni-63	1.586		27.914		29.500
P-32	4,275.498				4,275.498
Pb-210	1.241				1.241
Po-208	0.020				0.020
Po-210	0.001				0.001
Ra-226	0.937	0.015			0.952
Rb-86	73.621				73.621
Rh-101	1.000				1.000
Rh-102	1.000				1.000
Ru-103	7.717				7.717

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
S-35	3,122.638				3,122.638
Sb-125	0.014				0.014
Sc-46	18.933				18.933
Sc-47	0.001				0.001
Se-75	3.510				3.510
Sn-111	0.010				0.010
Sn-113	13.538				13.538
Sr-85	20.268				20.268
Sr-89	0.007				0.007
Sr-90	41.019		63.376		104.395
Tc-99	0.740				0.740
Tc-99m	982.697				982.697
Th-228	0.300				0.300
Tl-201	115.789				115.789
U-233	0.599				0.599
U-238	0.422				0.422
Xe-127	7.448				7.448
Xe-133	176.802				176.802
Y-90	4.020				4.020
Yb-169	0.215				0.215
Zn-65	0.235				0.235
Total	72,477.516	0.015	96.228		72,573.759

Industry

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	1.255				1.255
Ag-110m	6.783				6.783
Am-241	25.959	0.050		17.953	43.962
Am-243	0.030				0.030
Au-195	5.109				5.109
Ba-133	27.752				27.752
Ba-140	0.001				0.001
Bi-207	0.011				0.011
Bi-210	0.033				0.033
C-14	117,918.358			70,768.656	188,687.014
Ca-45	1,425.498				1,425.498
Ca-47	0.070				0.070
Cd-109	308.909				308.909
Cd-113m	111.310				111.310
Cd-115	0.003				0.003



Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ce-139	0.247				0.247
Ce-141	5.136				5.136
Ce-144	7.156				7.156
Cf-252	0.001				0.001
Cl-36	210.704				210.704
Cm-244	0.004				0.004
Co-56	0.590				0.590
Co-57	1,175.422				1,175.422
Co-58	45.614				45.614
Co-60	2,009.639	0.001			2,009.640
Cr-51	2,303.910				2,803.910
Cs-134	42.789				42.789
Cs-137	610.095	0.001			610.096
Cu-67	0.002				0.002
Dy-159	0.393				0.393
Dy-165	0.001				0.001
Eu-152	3.807				3.807
Eu-154	4.531				4.531
Eu-155	0.923				0.923
Fe-53	0.200				0.200
Fe-55	1,637.147				1,637.147
Fe-59	56.225				56.225
Ga-67	114.507				114.507
Gd-153	210.883				210.883
Ge-68	60.380				60.380
H-3	2,491,494.902		55,882,500.000		58,373,994.902
Hf-181	0.008				0.008
Hg-203	35.953				35.953
I-123	112.002				112.002
I-124	26.010				26.010
I-125	31,415.644				31,415.644
I-128	1.760				1.760
I-129	12.453				12.453
I-131	207.558				207.558
In-111	232.354				232.354
In-114m	21.005				21.005
Ir-192	0.003				0.003
K-40	0.027				0.027
Kr-85	65,469.255				65,469.255
La-140	0.100				0.100
Mn-54	91.078				91.078
Na-22	511.210				511.210
Nb-94	7.595				7.595
Nb-95	10.422				10.422
Ni-59	0.259				0.259

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ni-63	5,719.880		19,020.000		25,739.880
Ni-63AM	2,949.990				2,949.990
Np-237	0.147				0.147
P-32	41,574.622				41,574.622
P-33	0.926				0.926
Pb-210	0.006				0.006
Pm-147	160.249				160.249
Po-210	3,149.210				3,149.210
Pt-193	0.001				0.001
Pu-238	0.589			1.210	1.799
Pu-239	3.359			7.437	10.796
Pu-240	1.369			3.692	5.061
Pu-241	28.361			75.278	103.639
Pu-242	0.031			0.008	0.039
Ra-226	150.528	7.500		6.000	164.028
Ra-228	6.970				6.970
Rb-83	42.000				42.000
Rb-86	39.096				39.096
Ru-103	94.722				94.722
Ru-106	1.250				1.250
S-35	253,111.812				253,111.812
Sb-122	0.020				0.020
Sb-124	4.872				4.872
Sb-125	4.924				4.924
Sb-126	0.080				0.080
Sc-46	20.265				20.265
Se-75	37.404				37.404
Sn-113	48.395				48.395
Sn-117m	0.100				0.100
Sn-119	1.310				1.310
Sn-119m	5.882				5.882
Sr-85	5.973				5.973
Sr-89	1.074				1.074
Sr-90	60.270			25.000	85.270
Sr-95	1.630				1.630
Ta-182	0.748				0.748
Tc-99	438.870				438.870
Tc-99m	14.707				14.707
Te-123	39.976				39.976
Te-123m	20.000				20.000
Th-228	7.262				7.262
Th-230	0.557				0.557
Th-232	101.093				101.093
Th-NAT	7,912.253				7,912.253
Tl-201	11.961				11.961

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Tl-202	8.973				8.973
Tl-204	1.549				1.549
U-232	0.001				0.001
U-233	21.100				21.100
U-234	873.581				873.581
U-235	292.098				292.098
U-236	0.036				0.036
U-238	11,287.565				11,287.565
U-DEP	36.600				36.600
U-NAT	4,161.202				4,161.202
W-188	5.000				5.000
Xe-133	20.004				20.004
Y-88	1.580				1.580
Y-90	10.590				10.590
Yb-169	0.001				0.001
Zn-63	1.000				1.000
Zn-65	465.724				465.724
Zr-95	6.200				6.200
Total	3,052,448.533	7.552	55,901,520.000	70,905.234	59,024,881.319

## Utilities

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-108m				1.000	1.000
Ag-110	1,232.021				1,232.021
Ag-110m	8,318.449	0.244	179.000	8,518.900	17,016.593
Am-241	2.724	0.016	0.956	24.061	27.757
Am-243	0.040				0.040
Ba-133	0.016				0.016
Ba-140	251.158		296.000	12.901	560.059
Be-7	1,809.610			291.490	2,101.100
C-14	8,513.747	1.460	2,198.762	6,822.967	17,536.936
Cd-109	0.455				0.455
Ce-134	0.076				0.076
Ce-139	0.005				0.005
Ce-141	176.630		2.500	65.100	244.230
Ce-144	1,886.058	0.068	30.617	14,924.478	16,841.221
Cl-36	0.002				0.002
Cm-241	0.021				0.021
Cm-242	6.938	0.001	36.177	46.162	89.278
Cm-243	1.126	0.002	0.031	4.598	5.757

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cm-244	0.677	0.002	1.067	0.049	1.795
Co-57	220.487	0.020	1,669.460	2,121.063	4,011.030
Co-58	102,189.084	2.210	168,284.032	172,821.710	443,297.036
Co-60	651,182.968	300.000	381,650.987	7,456,069.086	8,489,203.041
Cr-51	527,046.512		30,262.553	440,024.548	997,333.613
Cr-56	0.007				0.007
Cs-127	20.640				20.640
Cs-134	28,323.993	3.430	800,774.217	202,847.691	1,031,949.331
Cs-136	301.857		265.000	11.691	578.548
Cs-137	49,136.416	131.000	1,478,477.116	3,209,488.310	4,737,232.842
Cs-139	0.001				0.001
Cs-144	1.569			2.930	4.499
Eu-152	0.001				0.001
Eu-154	0.532				0.532
Eu-155	5.782			26.221	32.003
Fe-55	1,077,660.367	75.400	285,492.768	13,497,367.805	14,860,596.340
Fe-59	35,148.938		2,534.000	1,383.198	39,066.136
H-3	46,167.816	6.090	3,718.703	150,268.970	200,161.579
Hf-181	0.006				0.006
Hg-203	0.001				0.001
I-129	36.621		3.371	14.565	54.557
I-131	910.493		1,230.000	22.200	2,162.693
I-133	10.447				10.447
La-140	280.050		341.000		621.050
Mn-54	224,332.419	0.103	70,351.985	409,163.224	703,847.731
Mo-99	11.314				11.314
Nb-94	2.675			13.000	15.675
Nb-95	56,754.624		14,520.249	5,662.282	76,937.155
Nb-97	49.581				49.581
Nd-144	0.040				0.040
Ni-59	29.807	4.950	1,472.636	6,558.386	8,065.779
Ni-63	35,994.440	309.000	242,393.261	1,213,285.478	1,491,982.179
Ni-65	762.185				762.185
Np-237	0.482		0.003		0.485
Np-239			12.900		12.900
Pm-147	1,780.454			686,876.000	688,656.454
Pu-238	5.409	0.017	2.489	36.256	44.171
Pu-239	7.732	0.009	3.893	90.939	102.573
Pu-240	2.400	0.009	0.380	26.713	29.502
Pu-241	570.974	0.703	612.549	2,785.681	3,969.907
Pu-242	0.729		0.003	0.006	0.738
Ra-226	0.540				0.540
Rh-106	165.329				165.329
Ru-103	408.743		0.630	140.724	550.097
Ru-106	567.774		2.770	24,922.907	25,493.451

Table B-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Sb-122	3.448				3.448
Sb-124	7,543.888		48,749.350	4,517.139	60,810.377
Sb-125	5,030.879		7,320.659	15,584.084	27,935.622
Se-75	0.535				0.535
Sn-113	2,540.583		236.000	26.370	2,802.953
Sr-85	0.001				0.001
Sr-89	601.381		1,060.652	572.678	2,234.711
Sr-90	1,567.143	0.115	3,938.660	5,142,199.212	5,147,705.130
Sr-92	91.969				91.969
Tc-99	512.815		15.386	1,707.128	2,235.329
Tc-99m	0.102				0.102
Te-125m	1,368.886		51.000	2,941.260	4,361.146
Th-228				0.023	0.023
U-233	0.056				0.056
U-234	0.138			0.299	0.427
U-235	0.061			0.038	0.099
U-238	0.086			0.502	0.588
Xe-131m	6.446		20.600		27.046
Y-88	0.008				0.008
Zn-65	301,052.019		333,517.120	47.716	634,616.855
Zr-90	0.930				0.930
Zr-95	11,039.025		8,967.020	3,251.697	23,257.742
Zr-97	49.579				49.579
Total	3,193,701.970	834.849	3,890,698.512	32,683,591.426	39,768,826.757



APPENDIX C

ISOTOPIC DISTRIBUTION BY WASTE STREAM FOR U.S. ECOLOGY DISPOSAL FACILITIES

## APPENDIX C

### ISOTOPIC DISTRIBUTION BY WASTE STREAM FOR U.S. ECOLOGY DISPOSAL FACILITIES

This appendix presents radionuclide identities and quantities by waste stream and waste class for low-level wastes disposed during 1987, 1988, and 1989 at the two U.S. Ecology low-level waste disposal facilities. Tables C-1 through C-3 present isotopic distributions, by year, for the Richland, WA, disposal facility. Tables C-4 through C-6 present isotopic distributions, by year, for the Beatty, NV, disposal facility. All isotopic distributions are given in units of millicuries.

In the tables, "Class AS" waste denotes Class A wastes that have been disposed in a manner that meets the structural stability requirements of 10 CFR 61.56. "Class AU" waste denotes Class A wastes that have not been disposed in a manner that meets these structural stability requirements.

On U.S. Ecology shipment manifests, shippers identify the physical and chemical characteristics of a container of waste using an index code list. For wastes disposed during 1987, this index code list included the following waste stream descriptions:

---

Vials	Absorbed aqueous liquid
Dry solid	Absorbed organic liquid
Solidified liquid	Aqueous liquid in vials
Biological waste	Animal carcasses on sorbent
Filter media	Compacted dry active waste
Dewatered resin	Noncompacted dry active waste
Solidified resin	Other
Gas	

---

But starting in 1988, U.S. Ecology changed its shipment manifest to describe the wastes somewhat differently and to include additional waste stream descriptions. Thus, for 1988 and 1989, waste streams are described as follows:

---

Vials	Aqueous liquid in vials in sorbent
Dry solid	Animal carcasses in lime and sorbent
Solidified liquids	Gas
Biological (non-carcass waste)	Evaporator bottoms
Absorbed liquid	Compacted dry active waste
Resin material	Non-compacted dry active waste
Filter media	Cartridge-type filter media
Dewatered resins	Non-cartridge filter media
Solidified resins	Activated reactor hardware
Sorbed aqueous liquid	Solidified chelates
Sorbed non-aqueous liquid	Solidified oil
Non-aqueous liquid in vials in sorbent	Other

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In early manifests, the index code list did not include a waste description specifically for activated metal wastes. During this time, U.S. Ecology kept informal track of delivery of activated metal wastes by assigning the designation Ni-63AM to Ni-63 disposed in activated metals. Otherwise, the following abbreviations are used in this appendix: TH-NAT denotes natural thorium (essentially Th-232), U-NAT denotes natural uranium, and U-DEP denotes depleted uranium.

Table C-1. Richland 1987 Isotopic Distribution (mCi) by Waste Stream

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 01 VIALS						
C-14	.000	.201	.201	.000	.000	.201
CA-45	.000	.118	.118	.000	.000	.118
CO-57	.000	.002	.002	.000	.000	.002
CR-51	.000	.502	.502	.000	.000	.502
H-3	.000	7.788	7.788	.000	.000	7.788
I-125	.000	2.039	2.039	.000	.000	2.039
MB-95	.000	.002	.002	.000	.000	.002
P-32	.000	.025	.025	.000	.000	.025
S-35	.000	1.187	1.187	.000	.000	1.187
SC-46	.000	.002	.002	.000	.000	.002
SR-113	.000	.002	.002	.000	.000	.002
SR-85	.000	.002	.002	.000	.000	.002
Totals:	.000	11.871	11.871	.000	.000	11.871

Table C-1 (Continued)

Isotope	A. S. Activity	A. U. Activity	K Activity	B. S. Activity	C. S. Activity	Total Activity
AC-227	000	001	001	000	000	001
AC-228	000	052	052	000	000	052
AG-110M	000	1,132,388	1,132,388	000	1,432,000	2,564,388
AM-241	001	64,816	64,817	4,819	123,693	193,349
AM-243	000	000	000	000	091	001
AM-244	000	008	008	000	008	008
AU-193	000	202	202	000	000	202
AU-195	000	41,654	41,654	000	000	41,654
BA-133	000	78,177	78,177	000	000	78,177
BA-140	000	441,506	441,506	000	372,300	813,806
BE-7	000	4,625	4,625	000	000	4,625
BI-207	000	5,142	5,142	000	000	5,142
BI-210	000	003	003	000	000	003
BR-82	000	004	004	000	000	004
C-14	6,523	67,669,469	67,675,992	006	1,930,176	69,606,174
CA-45	000	288,018	288,018	000	000	288,018
CA-47	000	113	113	000	000	113
CD-109	000	90,062	90,062	000	000	90,062
CD-115	000	100	100	000	000	100
CE-139	000	017	017	000	000	017
CE-141	000	108,666	108,666	000	000	108,666
CE-144	002	1,332,564	1,332,566	17,818	72,400	1,422,784
CL-36	000	19,864	19,864	000	000	19,864
CM-242	000	20,861	20,861	003	33,727	54,591
CM-243	000	1,362	1,362	000	162	1,524
CM-244	000	1,649	1,649	000	000	1,649
CO-57	000	2,290,576	2,290,576	1,000	000	2,291,576
CO-58	000	17,803,997	17,803,997	000	000	17,803,997
CO-59	000	5,000	5,000	000	000	5,000
CR-51	1,040,790	86,830,284	87,871,074	7,942	6,465,097,500	6,552,976,516
CS-131	000	10,050,467	10,050,467	000	5,570,000	16,620,467
CS-133	000	1,730	1,730	000	000	1,730
CS-134	000	5,000	5,000	000	000	5,000
CS-136	000	6,944,800	6,944,860	287,520	542,000	7,774,380
CS-137	70,102	32,382,806	32,412,908	21,472,235	133,863,800	187,748,943
CU-67	000	245	245	000	000	245
EU-152	000	28,135	28,135	000	000	28,135
EU-154	000	4,638	4,638	000	000	4,638
EU-155	000	42,614	42,614	9,060	42,600	94,274
FZ-55	050	100,392,057	100,392,107	10,894	4,557,149,200	4,657,552,201
FE-59	000	709,513	709,513	000	000	709,513
GA-67	000	36,492	36,492	000	000	36,492
GD-153	000	43,936	43,936	000	000	43,936
GD-159	000	030	030	000	000	030
GE-68	000	9,032	9,032	000	000	9,032



Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
H-3	1.064	1.041,584,500	1,041,585,554	5,795,571,954	1,297,368	6,839,454,896
Hf-181	000	143	143	000	000	143
Hg-203	000	1,035	1,035	000	000	1,035
I-123	000	2,681	2,681	000	000	2,681
I-124	000	010	010	000	000	010
I-125	000	27,597,589	27,597,589	000	000	27,597,589
I-129	000	108,626	108,716	040	98,593	207,349
I-131	000	1,479,905	1,479,905	000	000	1,479,905
I-132	000	800	800	000	000	800
I-133	000	101,618	101,618	000	000	101,618
I-135	000	1,140	1,140	000	000	1,140
IN-111	000	118,753	118,753	000	000	118,753
IN-114	000	037	037	000	000	037
IN-114M	000	567	567	000	000	567
IR-192	000	343,273	343,273	000	000	343,273
K-42	000	605	605	000	000	605
KR-85	000	8,291,829	8,291,829	000	000	8,291,829
LA-140	000	1,304,330	1,304,330	000	000	1,304,330
LN-54	000	11,469,854	11,469,854	000	306,422,702	317,892,554
MO-99	000	73,255	73,255	000	000	73,255
NA-22	000	105,147	105,147	000	000	105,147
NA-24	000	9,963	9,963	000	000	9,963
NB-94	000	010	010	000	644	654
NB-95	000	2,571,412	2,571,412	000	1,619,738	4,190,450
NB-97	000	10,549	10,549	000	000	10,549
ND-147	000	041	041	000	000	041
NI-59	000	619,782	4,700,782	000	5,140,000	9,840,782
NI-63	4,081,000	21,662,670	22,214,675	9,292,183	102,031,500	133,538,358
NI-63AH	552,005	000	000	000	167,647,000	167,647,000
NI-65	000	050	050	000	000	050
NP-237	000	1,420	1,420	000	031	1,451
P-32	000	20,801,477	20,801,477	000	000	20,801,477
P-33	000	085	085	000	000	085
PA-233	000	007	007	000	007	007
PB-210	000	27,670	27,670	000	000	27,670
PS-212	000	059	059	000	000	059
PB-214	000	210	210	000	000	210
PM-143	000	001	001	000	000	001
PM-147	000	10,897,012	10,897,012	204,902	559,500	11,661,414
PO-210	000	46,507	46,507	000	000	46,507
PR-143	000	040	040	000	000	040
PT-195	000	4,000	4,000	000	000	4,000
PU-238	000	11,640	11,640	2,992	2,992	15,024
PU-239	000	43,156	43,156	4,726	28,605	76,487
PU-240	000	16,809	16,809	1,241	13,885	31,935
PU-241	000	2,144,607	2,144,607	57,858	360,970	2,563,435
PU-242	000	1,491	1,491	031	031	1,522
RA-226	12,545	266,657	279,202	1,505	2,667,693	2,968,400
RB-83	000	19,000	19,000	000	000	19,000

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
RB-86	000	25 722	000	000	000	25 722
RE-184	000	020	020	000	000	020
RU-103	000	81 460	81 460	000	000	1 023 460
RU-106	000	926 471	926 471	40 387	942 000	1 124 658
S-35	000	32 688 997	32 688 997	000	157 800	32 688 997
SB-122	000	055	055	000	000	055
SE-124	000	23 386	23 386	000	000	23 386
SB-125	000	453 778	453 778	71 230	116 000	641 008
SC-46	000	41 942	41 942	000	000	41 942
SC-47	000	003	003	000	000	003
SE-75	000	7 669	7 669	000	000	7 669
SI-32	000	005	005	000	000	005
SN-113	000	89 866	89 866	000	000	89 866
SN-119	000	2 004	2 004	000	000	2 004
SR-85	000	11 308	11 308	000	000	11 308
SR-89	000	333 607	333 607	000	000	333 607
SR-90	000	3 098 264	3 098 264	24 082 150	4 826 953	32 007 367
SR-91	000	23 110	23 110	000	000	23 110
SR-92	000	57 129	57 129	000	000	57 129
SR-95	000	566	566	000	000	566
TA-182	000	4 282	4 282	000	000	4 282
TR-158	000	037	037	000	000	037
TR-160	000	001	001	000	000	001
TC-99	116	410 533	410 543	2 790	133 033	546 466
TC-99M	000	119 209	119 209	000	000	119 209
TE-123M	000	28 000	28 000	000	000	28 000
TE-125M	000	38 375	38 375	16 102	26 700	81 177
TE-127M	000	041	041	000	000	041
TE-129M	000	041	041	000	000	041
TH-228	000	103	103	000	000	103
TH-229	000	004	004	000	000	004
TH-230	000	140	140	000	000	140
TH-232	000	74 346	74 346	000	000	74 346
TH-NAT	000	9 771 854	9 771 854	000	000	9 771 854
TL-201	000	16 909	16 909	000	000	16 909
TL-202	000	2 234	2 234	000	000	2 234
TL-204	000	1 808	1 808	000	000	1 808
TL-206	000	077	077	000	000	077
U-232	000	000	000	000	000	000
U-233	000	900	900	000	000	900
U-234	000	17 616	17 616	000	000	17 616
U-235	000	50 028	50 028	058	644	18 318
U-236	000	078	078	008	035	50 071
U-238	000	28 038 735	28 038 735	018	092	28 038 861
U-NAT	000	1 082 619	1 082 619	000	128	1 082 619
XE-127	000	4 688	4 688	000	000	4 688
XE-133	000	6 072	6 072	000	000	6 072
Y-88	000	388	388	000	000	388
Y-90	000	25 882	25 882	000	000	25 882

Table C-1 (Continued)

Isotope	A S Activity	A II Activity	A Activity	B S Activity	C S Activity	Total Activity
Y-91	000	042	042	000	000	042
YB-169	000	7 893	7 893	000	000	7 893
ZN-65	050	20,526,057	20,526,107	000	000	20,526,107
ZR-88	000	5,000	5,000	000	000	5,000
ZR-89	000	10,100	10,100	000	000	10,100
ZR-95	000	1,051,461	1,051,461	000	635,000	1,686,461
ZR-97	000	1,545	1,545	000	000	1,545
Totals:	5,764,392	1,579,750,402	1,585,514,794	5,852,158,871	11,830,588,569	19,268,262,234

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AG-110M	6 110	7 110	13 220	000	000	13 220
AM-241	4 299	4 644	8 943	000	308	9 251
AM-243	000	034	034	000	000	034
AU-195	000	107	107	000	000	107
RA-140	000	002	002	000	000	002
CA-45	284 953	14 526 318	14 811 271	000	6 516 100	21 327 371
CD-109	18 033	9 899	27 932	000	000	27 932
CE-141	030	134 236	134 266	000	000	134 266
CE-144	000	001	001	000	000	001
CL-36	39 324	398	39 712	000	000	39 712
CM-242	084	89 386	89 470	000	000	89 470
CM-243	6 480	624	7 104	000	457	7 561
CM-244	001	000	001	000	000	001
CO-57	4 697	242	4 939	000	336	5 275
CO-58	1 108	53 144	54 252	000	000	54 252
CO-60	493 555	6 522 957	7 016 512	000	000	7 016 512
CR-51	1 647 423	6 107 943	7 755 366	000	88 506	7 843 872
CS-134	26 701	3 177 997	3 204 698	000	000	3 204 698
CS-136	388 980	5 719 888	6 108 868	000	26 600	6 134 868
CS-137	000	40 468	40 468	000	000	40 468
FE-55	1 615 590	14 651 884	16 267 474	000	64 400	16 331 874
FE-59	835 466	3 947 798	4 783 264	000	47 300	4 830 564
GA-67	000	395 104	395 104	000	000	395 104
H-3	4 675 105	6 000	6 000	000	000	6 000
HG-203	000	721 719 958	726 395 063	21 175 000	850 000	22 751 395 063
I-123	000	500	500	000	000	500
I-125	6 912	260	7 172	000	000	7 172
I-129	5 389	4 546 197	4 553 109	000	000	4 553 109
I-131	000	63 450	68 839	000	110	68 949
LA-140	000	343 497	343 187	100	000	443 187
MN-54	46 071	001	001	000	000	001
NA-22	145	5 074 524	5 120 595	000	000	5 120 595
NI-59	100	7 539	7 639	000	000	7 639
NI-63	000	804	804	000	000	804
NI-63	482 025	001	001	000	000	001
NI-63	000	10 347	10 347	000	000	10 347
NI-63	000	2 077 166	2 559 191	000	29 600	2 588 791
NI-63	000	007	007	000	000	007
NI-63	000	541 504	541 815	000	000	541 815
NI-63	000	311	311	000	000	311
NI-63	000	002	002	000	000	002
NI-63	000	502	502	000	000	502
NI-63	000	001	001	000	000	001
NI-63	7 473	1 063	8 536	000	000	8 536
NI-63	8 902	4 931	12 833	000	636	13 569
NI-63	006	1 841	1 847	000	000	1 847

Table C-1 (Continued)

Isotope	A.S. Activity	A.U. Activity	A Activity	B.S. Activity	C.S. Activity	Total Activity
FU-241	268.346	65.387	333.733	.000	19.000	352.733
FU-242	.000	264	264	.000	.000	264
RA-226	2.958	.068	3.036	.000	.000	3.036
RU-103	.000	.001	.001	.000	.000	.001
RU-106	.000	.001	.001	.000	.000	.001
S-35	9.469	1.132	1.141	.000	.000	1.141
SB-124	925.900	1.103	2.029	.000	.000	2.029
SB-125	.000	1.980	1.980	.000	.000	1.980
Sc-46	.001	.000	.001	.000	.000	.001
SE-75	.002	2.183	2.185	.000	.000	2.185
SN-113	.001	.000	.001	.000	.000	.001
SR-85	.000	.000	.000	.000	.000	.000
SR-89	.116	.199	.199	.000	.000	.199
SR-90	27.441	120.365	120.481	.000	.000	120.481
TC-99	7.587	33.946	61.387	.000	1.740	63.127
TC-99M	.000	18.565	26.152	.000	.219	26.371
TE-125M	.000	20.025	20.025	.000	.000	20.025
TE-129M	.000	1.332	1.332	.000	.000	1.332
TH-NAT	.000	.001	.001	.000	.000	.001
U-234	.000	.001	.001	.000	.000	.001
U-235	.000	.046	.046	.000	.000	.046
U-238	494.290	1.535	495.825	.000	.000	495.825
XB-131M	.000	.070	.070	.000	.000	.070
Y-91	.000	12.582	12.582	.000	.000	12.582
ZN-65	142	356.280	356.422	.000	.000	356.422
ZR-95	.000	.025	.025	.000	.000	.025
Totals:	12,428.077	795,056.637	807,484.714	21,175,100.000	856,795.240	22,839,379.954



Table C-1 (Continued)

Isotope	A. S. Activity	A. D. Activity	A. Activity	B. S. Activity	C. S. Activity	Total Activity
Waste Descriptive: 04 BIOLOGICAL (NON-CARCASS WASTE)						
C-14	.000	5.202	5.202	.000	.000	5.202
CA-45	.000	145	145	.000	.000	145
CE-141	.000	511	511	.000	.000	511
CO-57	.000	2.459	2.459	.000	.000	2.459
CR-51	.000	2.483	2.483	.000	.000	2.483
GA-67	.000	.001	.001	.000	.000	.001
GD-153	.000	.069	.069	.000	.000	.069
H-3	.000	1.235	1.235	.000	.000	1.235
I-125	.000	12.273	12.273	.000	.000	12.273
I-131	.000	.118	.118	.000	.000	.118
IK-111	.000	.051	.051	.000	.000	.051
NE-95	.000	.014	.014	.000	.000	.014
P-32	.000	.024	.024	.000	.000	.024
SC-46	.000	.523	.523	.000	.000	.523
SR-113	.000	.002	.002	.000	.000	.002
SR-85	.000	.950	.950	.000	.000	.950
TL-201	.000	.002	.002	.000	.000	.002
Totals:	.000	26.062	26.062	.000	.000	26.062

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
AG-110M	2,380.034	155.302	2,535.336	000	000	2,535.336
AM-241	028	047	075	247	000	000
RA-140	090	3,245	3,245	000	000	3,245
BE-7	000	1,715	1,715	1,588,836	976	1,589,651
C-14	107,206	1,126,324	1,233,530	116,269	000	1,349,799
CD-109	54,886	461,504	516,390	74,370	000	590,760
CE-144	023	023	023	640	000	663
CM-242	063	084	137	214	000	024
CM-244	14,221	1,514	15,735	16,100	000	31,835
CO-57	5,202,924	1,159,299	6,362,123	22,911,330	000	29,273,453
CO-60	10,129,542	2,211,651	12,341,193	24,913,900	000	37,255,193
CR-51	149,935	269,833	419,768	3,670	000	423,438
CS-134	2,910,259	133,188	3,043,447	50,087,500	000	53,130,947
CS-136	000	2,166	2,166	000	000	2,166
CS-137	8,259,722	222,530	8,482,252	117,665,000	000	126,147,252
FE-55	13,018,963	4,335,937	17,354,900	39,830,600	000	57,185,500
FE-59	29,275	20,610	40,885	19,600	000	60,485
H-3	37,529	385,081	422,610	000	000	422,610
I-129	3,954	267	4,221	7,080	000	11,301
I-131	000	000	000	887,102	000	887,102
MR-54	1,224,501	206,943	1,431,444	710,900	000	2,142,344
NR-95	719,266	154,181	873,447	1,440	000	874,887
NI-59	17,082	188	17,270	000	000	17,270
NI-63	2,748,573	506,976	3,255,549	22,900,700	000	26,156,249
PU-238	130	068	198	1,024	000	1,222
PU-239	051	020	071	651	000	722
PU-240	000	000	000	019	000	019
PU-241	58,060	123,503	181,563	43,532	000	225,095
PU-242	000	001	001	000	000	001
RU-103	53,560	2,374	55,934	000	000	55,934
RU-106	000	422,589	422,589	000	000	422,589
SB-174	1,101,640	038	1,101,678	458,000	000	1,559,678
SR-125	154,872	59,884	214,756	2,207,800	000	2,432,556
SN-113	6,970	4,600	11,570	000	000	11,570
SR-89	000	4,647	4,647	000	000	4,647
SR-90	18,609	73,673	92,282	192,747	000	284,922
TC-98	9,058	470	9,528	9,064	000	18,592
TE-125M	1,121	000	1,121	000	000	1,121
XE-131M	000	4,109	4,109	000	000	4,109
XE-133	000	8,180	8,180	000	000	8,180
ZN-65	9,267	20,903	30,170	000	000	30,170
ZR-95	185,431	99,025	284,457	51,100	000	335,557

Waste Description: 07 FILTER MEDIA

Table C-1 (Continued)

<u>Isotope</u>	<u>A S Activity</u>	<u>A U Activity</u>	<u>A Activity</u>	<u>B S Activity</u>	<u>C S Activity</u>	<u>Total Activity</u>
Totals:	48.607.964	12.183.783	60.791.747	284.699.529	.000	345.491.276

Table C-1 (Continued)

Isotope	A. S. Activity	A. U. Activity	A. Activity	B. S. Activity	C. S. Activity	Total Activity
Waste Description: 08 DEWATERED RESINS						
AG-110M	000	8,691,276	8,691,276	4,112,810	000	12,804,086
AH-241	000	8,234	8,234	4,732	000	12,966
BA-133	000	011	011	000	000	011
BA-140	000	696,004	696,004	631,700	000	1,527,704
BE-7	000	013	013	7,759,000	000	7,759,013
BI-207	000	001	001	000	000	001
C-14	3,500	1,973,079	1,976,579	732,269	100,000	2,808,848
CD-109	000	8,302,065	8,302,065	235	000	8,302,065
CE-141	000	34,805	34,805	000	000	35,040
CE-144	486,600	624,297	1,110,897	547,774	700,000	2,358,671
CH-242	000	404	404	7,518	000	7,922
CH-243	000	142	142	000	000	142
CH-244	000	023	023	4,822	000	4,845
CO-57	000	337,159	337,159	3,294,896	000	3,632,055
CO-58	2,020,300	63,865,186	65,885,486	838,544,700	21,700,000	926,130,186
CO-60	821,400	204,213,998	205,035,398	187,991,600	133,700,000	526,727,198
CR-51	000	63,569,057	63,569,057	37,062	000	63,606,119
CS-134	983,200	4,105,950	5,089,150	266,242,300	35,900,000	307,231,450
CS-136	000	024	024	000	000	024
CS-137	1,879,800	12,786,275	14,666,075	556,083,700	64,400,000	635,149,775
EB-152	000	040	040	000	000	040
EU-154	404,400	28,514,551	28,918,951	87,925,700	45,900,000	162,744,651
FE-55	000	841,831	841,831	9,516,800	000	10,358,631
FE-59	000	15,351,115	15,354,515	13,990,988	100,000	29,445,503
H-3	3,400	173,672	173,672	000	000	173,672
HF-181	001	3,089	3,089	13,564	000	16,654
I-129	000	1,385,421	1,385,421	14,863,000	000	16,248,421
I-131	000	310	310	000	000	310
I-133	000	371,351	371,351	5,672,620	000	6,043,971
LA-140	000	28,455,790	28,989,390	87,440,530	8,900,000	125,329,920
NA-24	533,600	42,449,043	42,449,757	282,698	000	42,732,455
NB-95	000	000	000	39,100	000	39,100
NI-59	000	10,666,104	10,712,004	81,624,200	67,900,000	159,636,204
NI-63	46,800	6,590	6,590	000	000	5,590
NI-65	000	006	006	000	000	006
NP-237	000	9,070,390	9,070,390	000	000	9,070,390
PM-147	000	1,917	1,917	10,217	000	12,134
PU-238	000	16,442	16,442	11,006	000	27,448
PU-239	000	4,305	4,305	000	000	4,305
PU-240	000	229,502	229,502	684,000	1,000,000	1,913,502
PU-241	000	001	001	000	000	001
PU-242	000	000	000	276	000	276
RU-103	000	845,008	845,008	000	000	845,008
RU-106	000	000	000	000	000	000
SB-122	000	002	002	000	000	002

C-14

Isotope	A S Activity	A P Activity	A Activity	B S Activity	C S Activity	Total Activity
SB-124	78,962.800	4,450.823	83,413.623	64,298.000	.000	147,711.623
SB-125	.000	37,669.322	37,669.322	3,865.200	500.000	42,035.522
SC-46	.000	.001	.001	.000	.000	.001
SE-75	.000	.001	.001	.000	.000	.001
SN-113	.000	1,556.277	1,556.277	1,524.600	.000	3,080.877
SR-89	.000	10.044	10.044	16.240	300.000	326.284
SR-90	13.600	14,986.282	14,999.882	2,860.030	1,800.000	19,659.912
TC-99	.018	11.342	11.360	11.353	.000	22.713
TE-125M	.000	9,091.601	9,091.601	623.850	.000	9,715.451
U-235	.000	.030	.030	.000	.000	.030
U-238	.000	.058	.058	.000	.000	.058
Y <sup>m</sup> 131M	.000	.197	.197	.000	.000	.197
-133	.000	30.378	30.378	.000	.000	30.378
Zr-85	.000	692,455.470	692,455.470	.000	.000	692,455.470
Zr-95	.000	24,286.584	24,286.584	158.215	.000	24,444.799
Totals:	86,158.519	1,292,143.692	1,378,302.211	2,241,028.505	382,900.000	4,002,230.716

Table C-1 (Continued)



Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 09 SOLIDIFIED RESINS						
AG-110M	621.610	2.900	624.510	668.060	0.000	1,292.570
AH-241	0.002	0.002	0.004	6.240	0.000	6.244
BA-140	1.615	0.000	1.615	3,819.174	0.000	3,820.789
C-14	185.496	180.515	366.011	225.972	0.000	591.983
CE-141	0.000	0.000	0.000	516.250	0.000	516.250
CE-144	0.015	0.033	0.048	39.935	0.000	39.958
CM-242	0.002	0.000	0.002	19.830	0.000	19.832
CM-243	0.002	0.000	0.004	180.000	0.000	180.004
CM-244	53.560	0.000	53.560	0.000	0.000	53.560
CO-57	4.462	1.501	5.963	11.304	0.000	17.267
CO-58	19.851	8.694	28.545	113.810	0.000	142.356
CO-60	3.635	0.016	3.835	120.444	0.000	124.279
CR-51	1.207	1.156	2.363	27.612	0.000	28.936
CS-134	1.941	963.860	2,905.133	112.854	0.000	115.759
CS-137	6.473	6.619	13.092	191.842	0.000	204.934
FE-55	1.200	71.940	73.140	0.000	0.000	73.140
FE-59	1.628	319.044	1,938.197	506.336	0.000	2,444.533
H-3	0.094	0.643	0.737	2.112	0.000	2.849
I-129	0.000	0.000	0.000	4.009	0.000	4.009
I-131	0.000	0.000	0.000	2.930	0.000	2.930
I-133	0.000	0.000	0.000	452.720	0.000	452.720
LA-140	865	0.000	865	28.312	0.000	40.596
MN-54	8.078	4.204	12.283	77.250	0.000	88.448
NB-95	1.203	0.000	1.203	13.248	0.000	14.958
NI-59	10.758	440	11,198	14.940	0.000	10,294
NI-63	1.477	272.591	1,749.766	0.000	0.000	757.741
PU-238	0.002	0.002	0.004	10.290	0.000	11.622
PU-239	0.002	0.000	0.002	0.000	0.000	6.242
PU-240	0.002	0.000	0.002	0.000	0.000	142.750
PU-241	387	0.050	437	1.554	0.000	1.352
RU-106	0.000	1.596	1.596	19.185	0.000	19.895
SB-124	5.942	300	6.242	32.604	0.000	33.750
SB-125	142.750	0.000	142.750	9.458	0.000	9,460.204
SR-89	1.554	0.000	1.554	1,348.273	0.000	1,352.499
SR-90	2.251	1.975	4.226	0.000	0.000	0.000
TC-99	0.057	653	710	0.000	0.000	0.000
ZN-65	925.804	231.911	1,157.715	32.604	0.000	33,752.325
ZR-95	979	0.000	979	0.000	0.000	979
Totals:	50,910.982	23,176.305	74,087.287	673,989.188	0.000	748,076.475

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 10 SORBED AQUEOUS LIQUID						
AG-110M	.000	5.241	5.241	.000	.000	5.241
RA-133	.000	38.025	38.025	.000	.000	38.025
BA-140	.000	15.747	15.747	.000	.000	15.747
C-14	.000	9.100	9.100	.000	.000	9.100
CA-45	.000	268.158	268.158	.000	.000	268.158
CD-109	.000	8.092	8.092	.000	.000	8.092
CE-141	.000	10.489	10.489	.000	.000	10.489
CE-144	.000	38.011	38.011	.000	.000	38.011
CL-36	.000	39.439	39.439	.000	.000	39.439
CO-57	.000	477.559	477.559	.000	.000	477.559
CO-58	.000	415.188	415.188	.000	.000	415.188
CO-60	.000	184.319	184.319	.000	.000	184.319
CR-51	.000	2.556	2.556	.000	.000	2.556
CS-134	.000	65.602	65.602	.000	.000	65.602
CS-137	.000	131.667	131.667	.000	.000	131.667
CU-64	.000	.001	.001	.000	.000	.001
CU-67	.000	1.270	1.270	.000	.000	1.270
EU-154	.000	.001	.001	.000	.000	.001
FU-155	.000	.001	.001	.000	.000	.001
FE-55	.000	777.781	777.781	.000	.000	777.781
FE-59	.000	46.161	46.161	.000	.000	46.161
GD-153	.000	82.550	82.550	.000	.000	82.550
GE-68	.000	23.601	23.601	.000	.000	23.601
H-3	.000	107.572	107.572	.000	.000	107.572
IG-203	.000	6.377	6.377	.000	.000	6.377
I-123	.000	3.500	3.500	.000	.000	3.500
I-125	.000	12.508	12.508	.000	.000	12.508
I-129	.000	1.082	1.082	.000	.000	1.082
I-131	.000	376.289	376.289	.000	.000	376.289
IN-111	.000	19.679	19.679	.000	.000	19.679
IN-114H	.000	1.140	1.140	.000	.000	1.140
K-42	.000	.016	.016	.000	.000	.016
KN-54	.000	1.060	1.060	.000	.000	1.060
NA-22	.000	98.663	98.663	.000	.000	98.663
NB-95	.000	391.951	391.951	.000	.000	391.951
NI-63	.000	225.715	225.715	.000	.000	225.715
P-32	.000	463.670	463.670	.000	.000	463.670
P-33	.000	60.498	60.498	.000	.000	60.498
PA-233	.000	17.656	17.656	.000	.000	17.656
PB-210	.000	.001	.001	.000	.000	.001
PF-147	.000	.011	.011	.000	.000	.011
PO-209	.000	1.385	1.385	.000	.000	1.385
PO-210	.000	.011	.011	.000	.000	.011
PU-241	.000	103	103	.000	.000	103
RA-226	.000	4.816	4.816	.000	.000	4.816
		266	266			266

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
RP-86	000	25,058	25,058	000	000	25,058
RU-103	000	9,519	9,519	000	000	9,519
S-35	000	42,622,385	42,622,385	000	000	42,622,385
SB-125	000	181	181	000	000	181
SC-46	000	9,480	9,480	000	000	9,480
SE-75	000	59,743	59,743	000	000	59,743
SN-113	000	141,897	141,897	000	000	141,897
SN-119	000	6,122	6,122	000	000	6,122
SR-85	000	12,469	12,469	000	000	12,469
SR-89	000	8,780	8,780	000	000	8,780
SR-90	000	2,377	2,377	000	000	2,377
TC-99	000	14,388	14,388	000	000	14,388
TE-125M	000	010	010	000	000	010
TH-228	000	080	080	000	000	080
TH-232	000	129	129	000	000	129
TH-NAT	000	112	112	000	000	112
TL-204	000	146	146	000	000	146
U-235	000	6,902	6,902	000	000	6,902
U-238	000	2,024	2,024	000	000	2,024
U-NAT	000	45,573	45,573	000	000	45,573
Y-90	000	1,465,965	1,465,965	000	000	1,465,965
YB-169	000	030	030	000	000	030
ZN-65	000	008	008	000	000	008
ZR-95	000	160,328	160,328	000	000	160,328
	000	85,337	85,337	000	000	85,337
Totals:	000	241,157,783	241,157,783	000	000	241,157,783

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 11 SORBED NON-AQUEOUS LIQUID						
C-14	.000	20.460	20.460	.000	.000	20.460
CM-242	.000	.009	.009	.000	.000	.009
CO-58	.000	3.358	3.358	.000	.000	3.358
CO-60	.000	213.144	213.144	.000	.000	213.144
CR-51	.000	.369	.369	.000	.000	.369
CS-134	.000	35.465	35.465	.000	.000	35.465
CS-137	.000	89.223	89.223	.000	.000	89.223
FE-55	.000	235.172	235.172	.000	.000	235.172
FE-59	.000	.360	.360	.000	.000	.360
H-3	.000	69.857	69.857	.000	.000	69.857
I-129	.000	.426	.426	.000	.000	.426
KR-85	.000	1.001	1.001	.000	.000	1.001
MN-54	.000	37.800	37.800	.000	.000	37.800
NI-63	.000	32.985	32.985	.000	.000	32.985
PG-241	.000	.009	.009	.000	.000	.009
SR-125	.000	.891	.891	.000	.000	.891
SR-90	.000	8.402	8.402	.000	.000	8.402
TC-99	.000	.436	.436	.000	.000	.436
U-234	.000	2.402	2.402	.000	.000	2.402
U-235	.000	1.263	1.263	.000	.000	1.263
U-238	.000	.682	.682	.000	.000	.682
Y-90	.000	1.010	1.010	.000	.000	1.010
ZN-65	.000	9.211	9.211	.000	.000	9.211
Totals:	.000	1.763.934	1.763.934	.000	.000	1.763.934



Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 13 AQUEOUS LIQUIDS IN VIALS IN SOLVENT						
AM-241	000	001	001	000	000	001
C-14	000	678 429	678 429	000	000	678 429
CA-45	000	1 353	1 353	000	000	1 353
CA-47	000	001	001	000	000	001
CD-109	000	650	650	000	000	650
CL-36	000	500	500	000	000	500
CO-57	000	30 615	30 615	000	000	30 615
CO-58	000	455	455	000	000	455
CO-60	000	206	206	000	000	206
CR-51	000	291 046	291 046	000	000	291 046
CS-137	000	200	200	000	000	200
FE-55	000	010	010	000	000	010
FE-59	000	2 838	2 838	000	000	2 838
GA-67	000	7 151	7 151	000	000	7 151
GD-153	000	1 748	1 748	000	000	1 748
H-3	000	3 001 192	3 001 192	000	000	3 001 192
I-123	000	005	005	000	000	005
I-125	000	1 181 278	1 181 278	000	000	1 181 278
I-131	000	61 998	61 998	000	000	61 998
IN-111	000	1 220	1 220	000	000	1 220
IN-114M	000	2 840	2 840	000	000	2 840
IR-192	000	315	315	000	000	315
KO-89	000	12 504	12 504	000	000	12 504
NA-22	000	1 639	1 639	000	000	1 639
NR-95	000	7 221	7 221	000	000	7 221
NI-63	000	650	650	000	000	650
P-32	000	223 317	223 317	000	000	223 317
PB-210	000	010	010	000	000	010
PM-147	000	063	063	000	000	063
PO-210	000	006	006	000	000	006
RB-86	000	340	340	000	000	340
RU-103	000	6 493	6 493	000	000	6 493
S-35	000	4 341 293	4 341 293	000	000	4 341 293
SC-46	000	6 000	6 000	000	000	6 000
SE-75	000	089	089	000	000	089
SN-113	000	5 722	5 722	000	000	5 722
SR-85	000	059	059	000	000	059
SR-90	000	065	065	000	000	065
TC-99	000	16 000	16 000	000	000	16 000
TC-99M	000	35 015	35 015	000	000	35 015
TL-201	000	002	002	000	000	002
U-238	000	260	260	000	000	260
YB-169	000	016	016	000	000	016
ZN-65	000	042	042	000	000	042



Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Totals:	.000	9.920.857	9.920.857	.000	.000	9.920.857

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 14 ANIMAL CARCASSES IN LIME AND SORBENT						
AG-110M	.000	.075	.075	.000	.000	.075
AU-195	.000	.001	.001	.000	.000	.001
BE-7	.000	2.595	2.595	.000	.000	2.595
C-14	.000	978.186	978.186	.000	.000	978.186
CA-45	.000	240.312	240.312	.000	.000	240.312
CD-109	.000	1.177	1.177	.000	.000	1.177
CE-141	.000	27.472	27.472	.000	.000	27.472
CL-36	.000	2.503	2.503	.000	.000	2.503
CO-57	.000	26.453	26.453	.000	.000	26.453
CO-60	.000	1.870	1.870	.000	.000	1.870
CR-51	.000	145.554	145.554	.000	.000	145.554
CS-134	.000	17.830	17.830	.000	.000	17.830
CS-137	.000	.141	.141	.000	.000	.141
CU-64	.000	.001	.001	.000	.000	.001
CU-67	.000	.052	.052	.000	.000	.052
FE-55	.000	57.864	57.864	.000	.000	57.864
FE-59	.000	21.275	21.275	.000	.000	21.275
GA-67	.000	1.722	1.722	.000	.000	1.722
GA-68	.000	.270	.270	.000	.000	.270
GD-153	.000	7.883	7.883	.000	.000	7.883
GE-68	.000	1.885	1.885	.000	.000	1.885
H-3	.000	11.785.717	11.785.717	.000	.000	11.785.717
HG-203	.000	.268	.268	.000	.000	.268
I-123	.000	177.836	177.836	.000	.000	177.836
I-124	.000	.012	.012	.000	.000	.012
I-125	.000	398.299	398.299	.000	.000	398.299
I-131	.000	45.695	45.695	.000	.000	45.695
IN-111	.000	162.960	162.960	.000	.000	162.960
IN-113M	.000	.002	.002	.000	.000	.002
IN-114	.000	.029	.029	.000	.000	.029
IN-114M	.000	2.944	2.944	.000	.000	2.944
MN-54	.000	.287	.287	.000	.000	.287
MO-99	.000	.006	.006	.000	.000	.006
NA-22	.000	1.688	1.688	.000	.000	1.688
NB-95	.000	20.555	20.555	.000	.000	20.555
NI-63	.000	9.000	9.000	.000	.000	9.000
P-32	.000	68.433	68.433	.000	.000	68.433
PB-203	.000	.015	.015	.000	.000	.015
PB-210	.000	.136	.136	.000	.000	.136
PO-210	.000	.055	.055	.000	.000	.055
RB-86	.000	40.637	40.637	.000	.000	40.637
RU-103	.000	19.414	19.414	.000	.000	19.414
S-35	.000	665.697	665.697	.000	.000	665.697
SC-46	.000	37.219	37.219	.000	.000	37.219
SE-75	.000	.619	.619	.000	.000	.619
SN-113	.000	26.603	26.603	.000	.000	26.603

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Table C-1 (Continued)

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
SN-119	.000	8.000	8.000	.000	.000	8.000
SR-85	.000	30.204	30.204	.000	.000	30.204
SR-89	.000	24.700	24.700	.000	.000	24.700
TC-98	.000	62.642	62.642	.000	.000	62.642
TC-99H	.000	49.614	49.614	.000	.000	49.614
Tl-201	.000	26.330	26.330	.000	.000	26.330
U-238	.000	.060	.060	.000	.000	.060
XE-133	.000	64.600	64.600	.000	.000	64.600
Y-88	.000	.018	.018	.000	.000	.018
Y-90	.000	1.001	1.001	.000	.000	1.001
Zn-65	.000	.917	.917	.000	.000	.917
Totals:	.000	15,267.333	15,267.333	.000	.000	15,267.333

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
AG-110M	000	040	040	000	000	040
C-14	000	15 680	15 680	000	000	15 680
CO-58	000	150	150	000	000	150
CO-60	000	264 850	264 850	000	000	264 850
CS-134	000	9 290	9 290	000	000	9 290
CS-137	000	21 970	21 970	000	000	21 970
FE-55	000	198 620	198 620	000	000	198 620
H-3	000	10 240	10 240	000	000	10 240
I-129	000	502	502	000	000	502
MN-54	000	1 080	1 080	000	000	1 080
NB-95	000	13 600	13 600	000	000	13 600
NI-63	000	12 890	12 890	000	000	12 890
SB-125	000	4 800	4 800	000	000	4 800
SR-92	000	540	540	000	000	540
TC-99	000	675	675	000	000	675
ZN-65	000	64 730	64 730	000	000	64 730
ZR-95	000	6 790	6 790	000	000	6 790
Totals:	000	626 447	626 447	000	000	626 447

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 22 NON-COMPACTED DRY ACTIVE WASTE						
RA-140	000	17 230	17 230	000	000	17 230
C-14	000	4 400	4 400	000	000	4 400
CE-141	000	19 660	19 660	000	000	19 660
CM-242	000	250	250	000	000	250
CM-243	000	860	860	000	000	860
CO-58	000	65 560	65 560	000	000	65 560
CO-60	000	2 644 050	2 644 050	000	000	2 644 050
CR-51	000	52 610	52 610	000	000	52 610
CR-51	000	3 510	3 510	000	000	3 510
CS-134	000	12 610	12 610	000	000	12 610
CS-137	000	1 918 540	1 918 540	000	000	1 918 540
FE-55	000	39 530	39 530	000	000	39 530
FE-59	000	37 090	37 090	000	000	37 090
H-3	000	005	005	000	000	005
I-129	000	3 990	3 990	000	000	3 990
I-131	000	001	001	000	000	001
LA-140	000	1 053 500	1 053 500	000	000	1 053 500
MN-54	000	292 670	292 670	000	000	292 670
NI-63	000	430	430	000	000	430
PU-238	000	320	320	000	000	320
PU-239	0	17 600	17 600	000	000	17 600
PU-241	0	2 360	2 360	000	000	2 360
SR-89	000	090	090	000	000	090
SR-90	000	060	060	000	000	060
TC-99	000	290 980	290 980	000	000	290 980
ZN-65	000			000	000	
Totals:	000	6 477 906	6 477 906	000	000	6 477 906



Table C-1 (Continued)

Isotope	A S Activity	A D Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 99 OTHER						
BA-133	000	2 360	2 360	000	000	2 360
C-14	000	70 031	70 031	000	000	70 031
CA-45	000	10 557	10 557	000	000	10 557
CE-141	000	1 008	1 008	000	000	1 008
CL-36	000	006	006	000	000	006
CO-57	000	33 961	33 961	000	000	33 961
CO-58	000	1 068	1 068	000	000	1 068
CO-60	000	13 315	13 315	000	000	13 315
CR-51	000	200 892	200 892	000	000	200 892
CS-137	000	1 301	1 301	000	000	1 301
EU-152	000	900	900	000	000	900
FE-55	000	003	003	000	000	003
FE-59	000	1 282	1 282	000	000	1 282
GA-67	000	15 263	15 263	000	000	15 263
GD-153	000	600	600	000	000	600
H-3	000	2 764 684	2 764 684	000	000	2 764 684
I-127	000	12 733	12 733	000	000	12 733
I-129	000	489 192	489 192	000	000	489 192
I-131	000	020	020	000	000	020
IN-111	000	50 883	50 883	000	000	50 883
KR-85	20 000	7 850	7 850	000	000	7 850
MO-99	000	209 630	209 630	000	000	209 630
NA-22	000	20 500	20 500	000	000	20 500
NB-95	000	2 084	2 084	000	000	2 084
NI-63	000	002	002	000	000	002
P-32	000	2 006	2 006	000	000	2 006
RA-226	000	542 107	542 107	000	000	542 107
RB-86	000	22 500	22 500	000	000	22 500
RU-103	000	103	103	000	000	103
S-35	000	177 466	177 466	000	000	177 466
SE-75	000	044	044	000	000	044
SR-85	000	4 001	4 001	000	000	4 001
SR-90	000	500	500	000	000	500
TC-99M	000	61 464	61 464	000	000	61 464
TH-232	000	012	012	000	000	012
TH-NAT	000	85 715	85 715	000	000	85 715
TL-201	000	31 153	31 153	000	000	31 153
U-238	000	139 776	139 776	000	000	139 776
U-NAT	000	301 381	301 381	000	000	301 381
XE-133	000	122	122	000	000	122
Totals:	20 000	5 278 778	5 298 778	000	000	5 298 778

Table C-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
GRAND TOTALS:	203,889,934	3,982,841,780	4,180,731,724	30,226,976,093	13,070,283,809	47,483,991,626

Table C-2. Richland 1988 Isotopic Distribution (mCi) by Waste Stream

Activated Reactor Hardware

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Am-241	1.123				1.123
Co-60	1,262.980	406.550			1,669.530
Cs-134		1.600			1.600
Cs-137	.718				.718
Eu-152		95.760			95.760
Eu-154		11.170			11.170
Fe-55	1,818.000				1,818.000
H-3	4,000.000				4,000.000
Mn-54	.100	3.820			3.920
Ni-59	3.240				3.240
Ni-63	378.000				378.000
Zn-65	5.000				5.000
Total	7,469.161	518.900			7,988.061

Animal Carcasses in Lime and Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	.050				.050
F-33	.050				.050
Be-7	.030				.030
C-14	574.160				574.160
Ca-45	220.902				220.902
Ca-47	.001				.001
Cd-109	.573				.573
Ce-141	42.343				42.343
Ce-144	.142				.142
Cl-36	.216				.216
Co-57	20.292				20.292
Co-58	.230				.230
Cr-51	80.797				80.797
Fe-55	13.666				13.666
Fe-59	11.873				11.873
Ga-67	.008				.008
Gd-153	8.977				8.977
H-3	39,288.727				39,288.727
Hg-203	.043				.043
I-123	.031				.031

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
I-125	348.496				348.496
I-131	104.450				104.450
In-111	17.954				17.954
In-113	.007				.007
In-114	2.532				2.532
In-114m	.684				.684
Kr-85	.015				.015
Mn-54	3.208				3.208
Mo-99	1.783				1.783
Na-22	17.300				17.300
Nb-95	12.466				12.466
P-32	24.608				24.608
Pb-203	.001				.001
Po-210	.018				.018
Pu-241	.096				.096
Ra-226	.153				.153
Rb-86	9.889				9.889
Ru-103	18.782				18.782
Ru-106	.090				.090
S-35	363.848				363.848
Sc-46	86.896				86.896
Sc-47	.001				.001
Se-75	5.658				5.658
Sn-113	30.218				30.218
Sn-119	4.500				4.500
Sr-85	30.343				30.343
Sr-90	14.308				14.308
Tc-99	10.640				10.640
Tc-99m	315.598				315.598
Th-228	.002				.002
Tl-201	18.382				18.382
Tl-202	1.100				1.100
Tl-204	.120				.120
Xe-131	81.600				81.600
Xe-133	715.167				715.167
Y-88	.007				.007
Y-90	.774				.774
Zn-65	1.781				1.781
Zr-85	.001				.001
Total	42,506.587				42,506.587

Table C-2 (Continued)

Aqueous Liquids in Vials in Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	40.000				40.000
C-14	498.304				498.304
Ca-45	5.904				5.904
Ca-47	.002				.002
Cd-109	.500				.500
Cl-36	.990				.990
Co-57	116.031				116.031
Co-58	.069				.069
Co-60	.333				.333
Cr-51	92.069				92.069
Cs-137	1.000				1.000
Fe-59	1.344				1.344
Ga-67	40.003				40.003
H-3	3,758.525				3,758.525
I-123	.002				.002
I-125	2,690.609				2,690.609
I-129	.001				.001
I-131	73.342				73.342
In-111	11.601				11.601
Na-22	7.201				7.201
Nb-95	9.240				9.240
P-32	586.899				586.899
P-33	.500				.500
Rb-86	7.721				7.721
Ru-103	9.378				9.378
S-35	3,308.799				3,308.799
Sc-46	20.302				20.302
Se-75	1.150				1.150
Sn-113	26.860				26.860
Sr-85	.051				.051
Tc-99m	71.632				71.632
Tl-201	.003				.003
Y-88	.125				.125
Yb-169	.013				.013
Total	11,200.503				11,200.503

Biological (Non-Carcass Waste)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	130.972				130.972



Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cd-109	.003				.003
Ce-141	.609				.609
Ce-144	.016				.016
Co-57	15.769				15.769
Cr-51	4.915				4.915
Fe-59	.020				.020
Ga-67	.010				.010
Gd-153	.007				.007
H-3	6,671.349				6,671.349
I-123	.003				.003
I-125	36.407				36.407
I-131	.563				.563
In-111	.008				.008
In-114	.036				.036
Mn-54	.005				.005
Mo-99	.600				.600
Nb-95	.028				.028
P-32	.002				.002
Po-210	.258				.258
Ra-226	.095				.095
S-35	4.694				4.694
Sc-46	3.027				3.027
Sn-113	.525				.525
Sr-85	2.443				2.443
Sr-90	.023				.023
Tc-99m	.002				.002
Tl-201	.014				.014
Xe-133	.083				.083
Zn-65	.003				.003
Total	6,872.489				6,872.489

Cartridge-Type Filter Media

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	11.526	13,192.700		33,334.558	46,538.784
Am-241		.203	.033	.388	.624
Ba-140	.314				.314
Be-7	3.530			207.876	211.406
C-14	1,528.478	285.692	262.969	1,417.734	3,494.873
Ce-141				26.660	26.660
Ce-144	15.270	8.230	5.956	76.065	105.521
Cm-242		1.361	.165	1.983	3.509

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cm-243		.023	.008	.006	.037
Cm-244		.156	.009	.322	.487
Co-57	.771	37.972	12.564	52.988	104.295
Co-58	206.122	33,854.007	2,422.860	15,096.301	51,579.290
Co-60	488.236	15,339.800	32,276.485	17,508.631	65,613.152
Cr-51	4.484	2,715.000	32.300	8,064.042	10,815.826
Cs-134	6.554	323.800	135.383	1,141.725	1,607.462
Cs-137	13.413	1,058.060	8,143.763	4,397.250	13,612.486
Fe-55	807.699	9,517.002	163,758.171	50,054.368	224,137.240
Fe-59	2.226	39.500	25.654	401.903	469.283
Ga-67	1.000				1.000
H-3	105,074.057	29.896	342.900	173.187	105,620.040
I-129	.024	.159	.093	.166	.442
I-131	5.556	117.000		3,520.000	3,642.556
La-140	.393			592.000	592.393
Mn-54	39.080	2,243.290	3,184.150	2,275.825	7,742.345
Nb-95	10.745	2,924.800	54.030	5,344.597	8,334.172
Ni-59	.238		18.069	34.847	53.154
Ni-63	202.327	2,836.800	3,937.700	6,804.253	13,781.080
P-32	.120				.120
Pm-147			13.510		13.510
Pu-238		.347	.027	.700	1.074
Pu-239		.363	.463	.755	1.581
Pu-240			.220	.042	.262
Pu-241	20.159	32.110	13.529	71.640	137.438
Pu-242			1.900	.015	1.915
Ru-103				.823	.823
Ru-106	.333		.847	1,029.000	1,030.180
S-35	.010				.010
Sb-124		2,414.000	1,164.000	1,105.000	4,683.000
Sb-125	14.167	1.150	40.430	32.945	88.692
Sn-113				.823	.823
Sr-89	.205	1.810	.235	5.529	7.779
Sr-90	.004	2.269	92,601.300	3.644	92,607.217
Tc-99	12.017	3.279	.376	6.654	22.326
Te-125m			7.100		7.100
Th-230			.001		.001
U-235			.002		.002
U-238			.002		.002
Xe-131m		4.750		14.100	18.850
Zn-65	1.156		18.620	30.216	49.992
Zr-95	7.795	852.000	30.340	2,764.210	3,654.345
Total	108,478.009	87,774.529	308,506.164	155,593.771	660,352.473

Table C-2 (Continued)

Compacted Dry Active Waste

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-108	.001				.001
Ag-108m	2.545				2.545
Ag-110	.192				.192
Ag-110m	155.432	.050			155.482
Am-241	21.621			30.100	52.721
Au-195	1.005				1.005
Ba-133	.282				.282
Ba-140	7.316				7.316
Be-7	.022				.022
Bi-205	.002				.002
Bi-207	.433				.433
C-14	15,511.048	.190		.038	15,511.276
Ca-45	255.132				255.132
Ca-47	.258				.258
Cd-107	.011				.011
Cd-109	54.537				54.537
Cd-115	.001				.001
Ce-141	114.012				114.012
Ce-144	474.072			26.400	500.472
Cf-252	.144				.144
Cl-36	114.572				114.572
Cm-242	14.964			.001	14.965
Cm-243	.140				.140
Cm-244	.888				.888
Co-56	.795				.795
Co-57	238.224				238.224
Co-58	5,179.031	.370			5,179.401
Co-60	11,000.101	7.010		30.100	11,037.211
Cr-51	4,254.536				4,254.536
Cs-134	1,507.663	2.620		11.600	1,521.883
Cs-136	19.952				19.952
Cs-137	6,070.837	5.240		849.000	6,925.077
Dy-165	.100				.100
Eu-152	5.093				5.093
Eu-154	7.346				7.346
Eu-155	21.986			49.500	71.486
Fe-55	11,653.579	4.460		42.000	11,700.039
Fe-59	268.214				268.214
Ga-67	11.973				11.973
Ga-68	.939				.939
Gd-153	3.623				3.623
Ge-68	13.525				13.525
H-3	117,818.887	.250			117,819.137
Hf-181	.068				.068
Hg-203	4.117				4.117

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
I-121	.002				.002
I-123	6.176				6.176
I-125	13,019.345				13,019.345
I-126	.005				.005
I-129	6.556	.040		.522	7.118
I-131	788.315				788.315
I-133	1.938				1.938
I-137	.400				.400
In-111	62.324				62.324
In-113	.001				.001
In-114	.418				.418
In-114m	.137				.137
Ir-192	4.193				4.193
Kr-85	.995				.995
La-140	6.202				6.202
Mn-54	1,758.112	.140			1,758.252
Mn-57	.001				.001
Mo-99	5.386				5.386
Na-22	106.636				106.636
Na-24	20.096				20.096
Nb-88	.010				.010
Nb-93	.004				.004
Nb-94	3.455				3.455
Nb-95	421.617	.420			422.037
Ni-59	3.568				3.568
Ni-63	3,957.627	.390		42.400	4,000.417
P-32	7,968.451				7,968.451
P-33	2.750				2.750
Pa-233	.006				.006
Pb-203	.001				.001
Pb-210	18.787				18.787
Pm-147	224.336			529.000	753.336
Po-208	.001				.001
Po-210	764.907				764.907
Pu-238	1.461			1.630	3.091
Pu-239	8.554			18.600	27.154
Pu-240	2.373			4.950	7.323
Pu-241	228.289			209.000	437.289
Pu-242	.404				.404
Ra-224	.010				.010
Ra-226	1.420				1.420
Rb-83	.362				.362
Rb-86	29.185				29.185
Ru-103	3.562				3.562
Ru-106	44.138			104.000	148.138



Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
S-35	8,121.201				8,121.201
Sb-122	.072				.072
Sb-124	680.552				680.552
Sb-125	66.982			107.000	173.982
Sc-46	21.150				21.150
Sc-47	.004				.004
Se-75	11.674				11.674
Sn-113	19.817				19.817
Sr-85	17.708				17.708
Sr-89	55.288				55.288
Sr-90	1,296.416			2,650.000	3,946.416
Sr-92	5.420				5.420
Ta-182	.930				.930
Tc-99	90.177			.154	90.331
Tc-99m	815.348				815.348
Te-123	16.019				16.019
Te-125	4.645				4.645
Te-125m	12.059			24.700	36.759
Th-228	.117				.117
Th-229	.010				.010
Th-232	11.590				11.590
Th-NAT	7.405				7.405
Tl-201	350.203				350.203
Tl-204	3.384				3.384
U-232	.401				.401
U-234	.419			.247	.666
U-235	10.917			.008	10.925
U-238	1,118.653			.055	1,118.708
U-NAT	20.771				20.771
W-181	.001				.001
Xe-127	13.256				13.256
Xe-133	81.220				81.220
Y-88	.031				.031
Y-90	1.485				1.485
Yb-169	.226				.226
Zn-65	2,381.798	8.140			2,389.938
Zr-95	292.163	.230			292.393
Zr-97	.060				.060
Total	219,811.307	29.550		4,731.005	224,571.862



Table C-2 (Continued)

## Dewatered Resins

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	7,353.032		46,233.000	3,597.000	57,173.032
Am-241	1.636		.056	6.113	7.805
Ba-140	278.860	111.000	.005		389.865
Be-7	10.564				10.564
C-14	1,610.505	9.744	389.252	385.420	2,394.921
Ce-141	5.049	.191			5.240
Ce-144	1,204.808		1,397.000	4,457.400	7,059.208
Cm-242	4.067		.115	2.565	6.747
Cm-243	.098				.098
Cm-244	.066		.047	.825	.938
Co-57	37.459		381.000	375.000	793.459
Co-58	37,043.823	8,493.000	133,283.625	92,791.600	271,612.048
Co-60	206,579.051	44,757.000	84,361.405	178,120.700	513,818.156
Cr-51	76,350.712	37,800.000	2,378.000		116,528.712
Cs-134	21,915.985	1,550.000	277,605.500	773,060.000	1,074,131.485
Cs-136	15.371		.005		15.376
Cs-137	33,709.147	1,390.000	448,898.500	2,113,643.000	2,597,640.647
Cs-144	2.469				2.469
Eu-154	.604				.604
Eu-155	2.090				2.090
Fe-55	73,060.905	47,152.000	52,348.200	174,132.900	346,694.005
Fe-59	5,291.743	285.000	18.700		5,595.443
H-3	15,713.463	5.766	613.360	1,958.418	19,291.007
Hf-181	59.901		4.760		64.661
I-129	11.962	.034	2.271	10.402	24.669
I-131	803.705	36.700	6,654.030		7,494.435
I-133	.062				.062
La-140	373.626	120.000	.006		493.632
Mn-54	60,228.598	2,410.900	17,925.115	47,268.000	127,832.613
Nb-95	10,783.019	4,580.000	4,991.200	68.100	20,422.319
Ni-63	7,087.330	1,019.590	20,805.400	156,819.800	195,732.120
Pm-147	5,033.700			151,910.000	156,943.700
Pu-238	2.498		.162	7.379	10.039
Pu-239	8.031		.141	34.447	42.619
Pu-240	2.976			10.565	13.541
Pu-241	339.083		93.650	1,739.420	2,172.153
Pu-242	.005				.005
Ru-106	251.287			6,565.000	6,816.287
Sb-124	583.027	936.200	66,985.900	25.400	68,530.527
Sb-125	15,154.942	493.000	4,254.300	5,346.700	25,248.942
Sn-113	323.431	283.000	270.000	24.800	901.231
Sr-89	9.568		396.650	2,375.714	2,781.932
Sr-90	10,552.702	.215	760.455	581,058.000	592,371.372
Tc-99	67.142	.251	5.763	406.796	479.952
Te-125m	4,476.199	19.700	572.000	740.500	5,808.399

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
U-233	.002				.002
U-234	.035			.063	.098
U-235	.019			4.564	4.583
U-238	.044			.082	.126
Xe-131			.039		.039
Xe-131m	13.208	.175	.002		13.385
Xe-133	10.200				10.200
Zn-65	343,392.061	56,500.000	128,601.000		528,492.061
Zr-95	5,646.357	4,580.000	2,353.600	26.400	12,606.357
Total	946,406.227	212,533.466	1,302,573.214	4,296,973.073	6,758,485.980

Dry Solid

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	.116				.116
Ag-110m	213.668		2,370.000		2,583.668
Am-241	47.666		.228	30.086	77.980
Am-247	.073				.073
Au-195	.087				.087
Ba-133	23.631				23.631
Bi-207	.018				.018
Bi-210	.013				.013
C-14	41,006.877	2.000	76.500	3,298.404	44,383.781
Ca-45	68.079				68.079
Cd-109	19.475				19.475
Ce-139	.062				.062
Ce-141	2.552				2.552
Ce-144	7.203		43.512	1.390	52.105
Cf-252	.702				.702
Cl-36	63.091				63.091
Cm-242	.239		.321		.560
Cm-243	.084				.084
Cm-244	.027		.071		.098
Co-57	452.575				452.575
Co-58	568.660		1,610.000		2,278.660
Co-60	9,799.867	.005	855.480	460.402	11,115.754
Cr-51	2,478.526		96.600		2,575.126
Cs-134	532.880		1,906.000	406.000	2,844.880
Cs-137	2,337.377	.001	44,500.000	24,960.000	71,797.378
Cu-64	.011				.011
Cu-67	.013				.013
Eu-152	.092				.092

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Eu-154	.115				.115
Eu-155	.001				.001
Fe-55	7,101.553	.700	1,784.560	83.448	8,970.261
Fe-59	22.063				22.063
Ga-67	10.477				10.477
Gd-153	108.453				108.453
Ge-68	4.349				4.349
H-3	1,640,026.080	588.300	3,511,236.000	.003	5,151,850.383
Hg-203	1.001				1.001
I-121	.002				.002
I-123	6.852				6.852
I-125	9,063.605				9,063.605
I-129	.564		.352	.070	.986
I-131	363.759		3.260		367.019
In-111	30.732				30.732
In-114	.001				.001
In-114m	.610				.610
Ir-192	93.400				93.400
K-40	.002				.002
Kr-85	2,925.279				2,925.279
Mn-54	975.816		55.200		1,031.016
Na-22	45.810				45.810
Na-24	.200				.200
Nb-95	272.810		109.000		381.810
Ni-63	2,144.337		936.420	13.600	3,094.357
P-32	5,928.587				5,928.587
P-33	1.431				1.431
Pa-233	.001				.001
Pa-234	.001				.001
Pb-210	.013				.013
Pb-212	.002				.002
Pm-147	1,170.082		79.000	43.600	1,292.682
Po-210	22.560				22.560
Pu-238	.756		.159	.001	.916
Pu-239	3.167		1.588	.864	5.619
Pu-240	.548		.360	.220	1.128
Pu-241	24.891		34.400	12.000	71.291
Pu-242	.073				.073
Ra-226	139.945	.010	.016	428.990	568.961
Ra-228	.014				.014
Rb-83	17.000				17.000
Rb-86	9.313				9.313
Re-187	.001				.001
Rh-106	.130				.130
Ru-103	2.485				2.485

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ru-106	8.555		5.798	9.550	23.903
S-35	12,317.510				12,317.510
Sb-122	.382				.382
Sb-124	5.173				5.173
Sb-125	40.719		285.100	100.000	425.819
Sc-46	5.966				5.966
Sc-50	.001				.001
Se-75	.622				.622
Sn-113	31.360		39.100		70.460
Sn-119m	177.576				177.576
Sr-81	.001				.001
Sr-85	4.399				4.399
Sr-89	27.666				27.666
Sr-90	67.928	.005	206,109.041	124,800.000	330,977.774
Ta-182	.068				.068
Tc-99	381.672		11.814	.981	394.467
Tc-99m	264.333				264.333
Te-123m	35.000				35.000
Te-125m	3.082		52.190	23.000	78.272
Th-228	.109				.109
Th-230	.043				.043
Th-232	489.163	.014			489.177
Th-NAT	21,454.449				21,454.449
Tl-201	15.854				15.854
Tl-202	2.020				2.020
Tl-204	2.062				2.062
Tl-208	.004				.004
Tl-210	.002				.002
U-234	.219				.219
U-235	46.931		.004	.001	46.936
U-236	.002				.002
U-238	12,575.395	.400	.004	.002	12,575.801
U-NAT	2,862.982				2,862.982
W-188	.001				.001
Xe-131m	.001		.150		.151
Xe-133	.003				.003
Y-88	.004				.004
Y-90	.041				.041
Yb-169	.050				.050
Zn-65	3,658.525				3,658.525
Zr-89	5.000				5.000
Zr-95	196.479		143.000		339.479
Total	1,782,923.887	591.435	3,772,346.028	154,672.612	5,710,533.962

Table C-2 (Continued)

Evaporator Bottoms

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	84.552				84.552
Am-241	.040				.040
C-14	61.374				61.374
Ce-141	300.170				300.170
Ce-144	.894				.894
Cm-242	.889				.889
Cm-243	.008				.008
Cm-244	.167				.167
Co-57	1.053				1.053
Co-58	4,216.151				4,216.151
Co-60	2,329.132				2,329.132
Cr-51	553.488				553.488
Cs-134	4,146.111				4,146.111
Cs-137	8,358.141				8,358.141
Fe-55	2,800.832				2,800.832
Fe-59	67.363				67.363
H-3	7,702.371				7,702.371
I-129	3.764				3.764
I-131	1.771				1.771
Mn-54	718.671				718.671
Nb-95	241.452				241.452
Ni-59	5.376				5.376
Ni-63	1,770.081				1,770.081
Pu-238	.062				.062
Pu-239	.040				.040
Pu-241	4.002				4.002
Pu-242	.073				.073
Ru-106	809.700				809.700
Sb-124	7,420.801				7,420.801
Sb-125	703.731				703.731
Sr-90	11.827				11.827
Tc-99	16.425				16.425
Te-125m	3.297				3.297
Xe-131m	.090				.090
Total	42,333.899				42,333.899

Gas

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Kr-85	63.098				63.098
Total	63.098				63.098



Table C-2 (Continued)

Non-Aqueous Liquids in Vials in Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	9.505				9.505
H-3	5.670				5.670
Total	15.175				15.175

Non-Cartridge Filter Media

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	.110				.110
C-14	283.843				283.843
Co-58	389.409				389.409
Co-60	2,674.685				2,674.685
Cr-51	471.680				471.680
Cs-137	1.337				1.337
Fe-55	23,607.317				23,607.317
Fe-59	216.126				216.126
H-3	2.268				2.268
I-129	.198				.198
Mn-54	3,679.502				3,679.502
Ni-63	661.663				661.663
Tc-99	.200				.200
Zn-65	8.248				8.248
Total	31,996.586				31,996.586

Non-Compacted Dry Active Waste

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-108m	6.309				6.309
Ag-110m	49.779		325.000		374.779
Am-241	95.580		3.232	31.645	130.457
Ba-133	.171				.171
Ba-140	2.971				2.971
Bi-207	.001				.001
C-14	754.664		537.713	5.270	1,297.647
Ca-45	.059				.059
Cd-109	77.863				77.863
Ce-139	.001				.001
Ce-141	95.515				95.515

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ce-144	464.887		5.098	56.870	526.855
Cl-36	.008				.008
Cm-242	.815		.850	.007	1.672
Cm-243	.030				.030
Cm-244	.022		.535	.395	.952
Co-57	104.299		.415		104.714
Co-58	1,116.420		674.860		1,791.280
Co-60	7,421.995		7,550.049	1,164.100	16,136.144
Cr-51	1,790.909		.075		1,790.984
Cs-134	796.651		2,979.600	194.540	3,970.791
Cs-137	3,227.647		21,412.000	3,910.000	28,549.647
Eu-152	.342				.342
Eu-154	.142				.142
Eu-155	19.364		4.510	54.760	78.634
Fe-55	10,502.160		15,809.133	1,042.400	27,353.693
Fe-59	161.126		.045		161.171
Ga-67	1.500				1.500
H-3	35,178.130		128.590	83.400	35,390.120
Hg-203	.001				.001
I-125	108.527				108.527
I-129	2.024		.317	6.865	9.206
I-131	284.028		.001		284.029
Kr-85	2,281.400				2,281.400
La-140	.003				.003
Mn-54	997.958		116.800		1,114.758
Mo-99	.004				.004
Na-22	.004				.004
Nb-94	.421				.421
Nb-95	176.427		228.287		404.714
Ni-59	.064				.064
Ni-63	935.624		15,309.219	1,272.310	17,517.153
P-32	13.647				13.647
Pm-147	220.047		70.180	820.000	1,110.227
Po-210	.001				.001
Pu-236	.010				.010
Pu-238	3.150		.953	3.520	7.623
Pu-239	7.870		2.602	24.470	34.942
Pu-240	2.534		.540	6.330	9.404
Pu-241	168.910		77.854	407.620	654.384
Pu-242	.002				.002
Ra-226	18.087				18.087
Ru-103	13.883		.008		13.891
Ru-106	171.302		11.794	153.400	336.496
S-35	9.232				9.232
Sb-122	.003				.003
Sb-124	647.451		1,161.000		1,808.451

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Sb-125	99.129		380.750	138.280	618.159
Sc-46	.009				.009
Se-75	.017				.017
Sn-113	.002				.002
Sn-119	.001				.001
Sr-89	7.069				7.069
Sr-90	1,201.566		48,426.200	6,094.000	55,721.766
Ta-182	.569				.569
Tc-99	5.146		6.427	10.564	22.137
Tc-99m	.007				.007
Te-125	.309				.309
Te-125m	13.603		85.810	31.810	131.223
Th-232	.012				.012
Th-NAT	6.147				6.147
Tl-204	.017				.017
U-234	.108		.022	.404	.534
U-235	4.888		.005	.032	4.925
U-238	135.121		.009	.092	135.222
Y-90	11.750				11.750
Zn-65	811.877		.057		811.934
Zr-95	133.298		126.138		259.436
Total	70,362.619		115,436.678	15,513.084	201,312.381

## Other

Nuclide	Class AU	Class AS	Class B	Class C	Total
Am-241	2.610				2.610
C-14	141.640				141.640
Ce-144	16.150				16.150
Cl-36	.001				.001
Cu-57	84.120				84.120
Co-58	15.060				15.060
Co-60	3,160.859		12.800		3,173.659
Cr-51	39.800				39.800
Cs-134	135.541				135.541
Cs-137	393.865		950.600		1,344.465
Eu-152	.131				.131
Eu-154	.130				.130
Fe-55	4,334.640				4,334.640
H-3	21.260				21.260
I-129	.181				.181

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Kr-85	18.258				18.258
Mn-54	16.710				16.710
Nb-95	7.650				7.650
Ni-63	199.260				199.260
Pb-210	.014				.014
Pm-147	.001				.001
Pu-239	.006	.348			.354
Ra-226	7.576	.140		146.400	154.116
Sr-90	2.608				2.608
Tc-99	1.221				1.221
Th-NAT	30.961				30.961
U-233	.001				.001
U-235	.001				.001
U-238	46.201				46.201
U-NAT	1.749				1.749
Zn-65	1,134.460				1,134.460
Total	9,812.665	.488	963.400	146.400	10,922.953

Solidified Chelates

Nuclide	Class AU	Class AS	Class B	Class C	Total
C-14	17.604				17.604
Co-60	65.174				65.174
Cs-134	10.958				10.958
Cs-137	143.957				143.957
Fe-55	205.211				205.211
Mn-54	.126				.126
Ni-63	92.010				92.010
Total	535.040				535.040

Solidified Liquids

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-108m	1.268				1.268
Ag-110m	3.065				3.065
Am-241	.028	.001			.029
Ba-133	9.851				9.851
Bi-210		.001			.001

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
C-14	7,634.733				7,634.733
Ca-45	34.268				34.268
Cd-109	60.146				60.146
Ce-144	.556	.001			.557
Cl-36	15.116				15.116
Cm-242	.518				.518
Cm-244	.171				.171
Co-57	28.147				28.147
Co-58	1,197.676				1,197.676
Co-60	1,903.287	.300			1,903.587
Cr-51	49.114				49.114
Cs-134	852.552				852.552
Cs-137	1,770.899				1,770.899
Fe-55	1,095.367				1,095.367
Fe-59	1.206				1.206
H-3	303,750.311		17,315,000.000		17,618,750.311
I-125	1,185.743				1,185.743
I-129	1.071				1.071
I-131	33.989				33.989
In-111	.250				.250
Ir-192	.199				.199
Mn-54	346.116				346.116
Na-22	36.442	.001			36.443
Na-24	.043				.043
Nb-94	.084				.084
Nb-95	.146				.146
Ni-59	.013	.140			.153
Ni-63	872.512				872.512
P-32	602.708				602.708
Pm-145		.001			.001
Po-210	.044				.044
Pt-193		.001			.001
Pu-238	.039				.039
Pu-239	.023				.023
Pu-241	2.894				2.894
Pu-242	.080				.080
Rb-86	.201				.201
S-35	2,280.002				2,280.002
Sb-124	76.478				76.478
Sb-125	928.131				928.131
Se-75	4.275				4.275
Sm-145		.001			.001
Sr-90	5.597	.001			5.598
Tc-99	14.099	.001			14.100
Te-125m	.442				.442



Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Th-NAT	.094				.094
Tl-204		.001			.001
U-234		.001			.001
U-235	.694				.694
U-238	1.553	.002			1.555
Zn-65	2.931				2.931
Total	324,805.172	.453	17,315,000.000		17,639,805.625

Solidified Oil

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	121.542				121.542
Am-241	.391				.391
C-14	34.039	1.831			35.870
Cm-242	.228				.228
Cm-244	.397				.397
Ce-58	.837	.355			1.192
Co-60	570.301	188.460			758.761
Cr-51	.005				.005
Cs-134	45.249	.294			45.543
Cs-137	520.383	7.619			528.002
Fe-55	473.527	394.750			868.277
H-3	145.619	.058			145.677
I-129	.674	.004			.678
Mn-54	1.496	15.144			16.640
Nb-95	.100				.100
Ni-63	44.005				44.005
Pu-238	.643	.014			.657
Pu-239	.559	.013			.572
Pu-241	22.118	3.576			25.694
Ra-226	.150				.150
Sb-125	.049				.049
Sr-89		16.610			16.610
Sr-90	9.615	6.610			16.225
Tc-99	1.715	.002			1.717
U-238	80.120	1.970			82.090
Zn-65	21.956				21.956
Total	2,095.718	637.310			2,733.028

Table C-2 (Continued)

Solidified Resins

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Am-241		.003	.002		.005
C-14	5,381.240	440.431	230.947		6,052.618
Cm-242		.048	.011		.059
Cm-243		.002			.002
Cm-244		.002			.002
Co-57		195.390	385.756		581.146
Co-58	730.731	12,538.000	6,811.289		20,080.020
Co-60	9,847.488	72,906.000	55,498.980		138,252.468
Cr-51	60.405	44.004			104.409
Cs-134		652.400	12,439.240		13,091.640
Cs-137	578.395	1,017.700	22,621.940		24,218.035
Fe-55	20,796.796	112 25.900	41,691.210		175,413.906
Fe-59	.155	1 579.300			1,529.455
H-3	2,299.966	99.845	1,760.617		4,160.428
I-129	1.951	.032	.021		2.004
Mn-54	5,561.138	9,520.310	14,284.560		29,166.008
Ni-59		44.146	198.937		243.083
Ni-63	1,071.712	6,872.010	18,947.720		26,891.442
Pu-238		.011	.006		.017
Pu-239		.014	.020		.034
Pu-240		.014	.020		.034
Pu-241		1.649	1.419		3.068
Sb-125		75.605			75.605
Sn-113			361.678		361.678
Sr-89		.356	156.191		156.547
Sr-90	17.890	7.829	135.493		161.212
Tc-99	1.062	.010	.038		1.110
Zn-65	50.150	710.270			760.420
Total	46,399.079	219,381.281	175,526.095		441,306.455

Sorbed Aqueous Liquids

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	.412				.412
Am-241	.001				.001
As-73	.909				.909
Au-195	.333				.333
Ba-133	1.602				1.602
Bi-207	.005				.005
C-14	7,542.611				7,542.611

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ca-45	620.149				620.149
Ca-47	.001				.001
Cd-109	20.839				20.839
Ce-141	1.562				1.562
Cl-36	131.366				131.366
Co-57	683.017				683.017
Co-58	.404				.404
Co-60	60.176				60.176
Cr-51	2,256.751				2,256.851
Cs-134	.560				.560
Cs-137	7.120				7.120
Cu-67	.003				.003
Eu-152	.001				.001
Eu-154	.107				.107
Fe-55	357.601				357.601
Fe-59	14.476				14.476
Ga-67	2.004				2.004
Ga-68	.074				.074
Gd-153	29.913				29.913
Ge-68	7.054				7.054
H-3	112,875.754				112,875.754
Hg-203	5.088				5.088
I-123	19.000				19.000
I-125	14,919.459				14,919.459
I-129	.028				.028
I-131	50.852				50.852
In-111	33.108				33.108
In-114	.009				.009
Iri-114m	.248				.248
K-40	.083				.083
K-42	.001				.001
Kr-85	3.117				3.117
Mn-54	5.363				5.363
Na-22	392.110				392.110
Na-24	13.792				13.792
Nb-95	2.344				2.344
Ni-59	.001				.001
Ni-63	882.988				882.988
P-32	57,912.296				57,912.296
Pb-210	.169				.169
Pm-147	5.631				5.631
Po-210	.003				.003
Ra-226	1.283				1.283
Rb-83	1.000				1.000
Rb-86	68.230				68.230

Table C-2 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ru-103	1.559				1.559
S-35	74,447.264				74,447.264
Sc-46	4.292				4.292
Se-75	5.481				5.481
Sn-113	17.385				17.385
Sn-119m	8.339				8.339
Sr-85	5.500				5.500
Sr-90	.479				.479
Tc-99	17.552				17.552
Tc-99m	.004				.004
Te-123m	5.000				5.000
Th-228	.664				.664
Th-232	.624				.624
Tl-201	.001				.001
U-238	3.250				3.250
U-NAT	411.250				411.250
Xe-133	16.000				16.000
Y-88	3.200				3.200
Y-90	1.000				1.000
Zn-65	28.748				28.748
Zr-95	.176				.176
Total	273,908.876				273,908.876

Sorbed Non-Aqueous Liquid

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ba-133	.020				.020
C-14	27.767				27.767
Cm-242	.008				.008
Co-57	.010				.010
Co-58	.333				.333
Co-60	49.447				49.447
Cs-134	.261				.261
Cs-137	12.114				12.114
Fe-55	42.132				42.132
H-3	102.123				102.123
I-125	1.000				1.000
I-129	.049				.049
Mn-54	2.264				2.264
Na-22	.015				.015
Ni-63	4.363				4.363
P-32	2.000				2.000
Pu-241	.009				.009

Table C-2 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Sb-125	.736				.736
Sr-90	.008				.008
Tc-99	.055				.055
U-238	.030				.030
Total	244.744				244.744



Table C-3. Richland 1989 Isotopic Distribution (mCi) by Waste Stream

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 02 DRF SOLID						
AG-105	.000	.002	.002	.000	.000	.002
AG-108M	.000	.000	.000	.000	1.000	1.000
AG-110	.000	1.470	1.470	.000	.000	1.470
AG-110M	.000	405.768	405.768	179.000	154.425	739.193
AM-241	.476	27.716	28.091	.141	44.562	72.794
AM-243	.000	.031	.031	.000	.000	.031
AS-73	.000	.520	.520	.000	.000	.520
AU-195	.000	4.612	4.612	.000	.000	4.612
BA-133	.000	27.074	27.074	.000	.000	27.074
BA-140	.000	85.827	85.827	.000	.000	85.827
BI-204	.000	5.000	5.000	.000	.000	5.000
BI-205	.000	.010	.010	.000	.000	.010
BI-206	.052	.025	.025	.000	.000	.025
BI-207	.000	1.111	1.111	.000	.000	1.111
BI-210	.000	.034	.034	.000	.000	.034
C-14	.000	77.789.913	77.789.913	136.000	69.139.737	147.065.656
C-15	.000	.060	.060	.000	.000	.060
CA-45	.000	222.311	222.311	.000	.000	222.311
CA-47	.000	.101	.101	.000	.000	.101
CD-109	.000	58.313	58.313	.000	.000	58.313
CD-115	.000	.014	.014	.000	.000	.014
CE-139	.000	.130	.130	.000	.000	.130
CE-141	.000	111.222	111.222	.230	12.052	123.504
CE-144	.000	422.863	422.863	3.380	308.774	735.017
CF-252	.000	.007	.007	.000	.000	.007
CL-36	.000	61.189	61.189	.000	.000	61.189
CM-242	.000	.625	.625	.024	36.266	36.915
CM-243	.000	.002	.002	.000	3.684	3.684
CM-244	.000	1.278	1.278	.110	.001	1.389
CO-56	.000	.037	.037	.000	.000	.037
CO-57	.000	661.286	661.286	.420	619.517	1.281.223
CO-58	.000	15.627.375	15.627.375	151.000	14.030.973	29.809.348
CO-60	.000	189.767.789	189.767.789	2.490.000	40.493.000	232.750.789
CR-51	.000	6.078.922	6.078.922	.553	6.041.726	12.122.201
CS-137	.000	20.640	20.640	.009	.000	20.640
CS-134	.000	4.023.205	4.023.205	2.530.000	310.680	6.863.785
CS-136	.000	1.771	1.771	.000	11.691	13.462
CS-137	.000	5.355.916	5.355.916	9.940.000	1.154.800	16.480.716
CS-141	.000	.001	.001	.000	.000	.001
DY-159	.000	.009	.009	.000	.000	.009
DY-165	.000	.001	.001	.000	.000	.001
EU-151	.000	.001	.001	.000	.000	.001
EU-152	.000	7.962	7.962	.000	.000	7.962
EU-154	.000	4.282	4.282	.000	.000	4.282
EU-155	.000	.367	.367	.000	.000	.367
FE-53	.000	.200	.200	.000	.000	.200

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	U S Activity	Total Activity
FE-55	.000	177,872.173	177,872.173	7,270.000	128,380.000	311,632.173
FE-59	.000	538.316	538.316	.000	526.386	1,064.712
GA-67	.000	134.983	134.983	.000	.000	134.983
GA-68	.000	1.406	1.406	.000	.000	1.406
GD-153	.000	113.528	113.528	.000	.000	113.528
GE-68	.000	52.215	52.215	.000	.000	52.215
H-3	.000	1,560,019.183	1,560,019.183	54,344.209	2,788.250	55,807,027.371
HF-175	.000	.002	.002	.000	.000	.002
HF-181	.000	.096	.096	.000	.000	.096
HG-203	.000	35.931	35.931	.000	.000	35.931
I-121	.000	3.663	3.663	.000	.000	3.663
I-123	.000	42.852	42.852	.000	.000	42.852
I-124	.000	.010	.010	.000	.000	.010
I-125	.000	16,743.511	16,743.511	.000	.000	16,743.511
I-128	.000	1.760	1.760	.000	.000	1.760
I-129	.000	8.983	8.983	.000	3.546	12.529
I-131	.000	438.169	438.169	.000	22.200	460.369
IN-111	.000	174.642	174.642	.000	.000	174.642
IN-113	.000	.070	.070	.000	.000	.070
IN-114	.000	.140	.140	.000	.000	.140
IN-114M	.000	22.146	22.146	.000	.000	22.146
IR-192	.000	.011	.011	.000	.000	.011
KR-85	.000	1,796.286	1,796.286	.000	.000	1,796.286
LA-140	.000	96.993	96.993	.000	.000	96.993
LM-54	.000	9,994.286	9,994.286	51.800	3,280.800	13,326.886
MO-99	.000	.050	.050	.000	.000	.050
NA-22	.000	338.864	338.864	.000	.000	338.864
NA-24	.000	.013	.013	.000	.000	.013
NB-84	.000	.190	.190	.000	.000	.190
NB-95	.000	4,474.144	4,474.144	5.870	3,946.162	8,426.176
NB-96	.000	.010	.010	.000	.000	.010
NI-59	.000	9.540	9.540	1.240	16.490	27.270
NI-63	.000	17,930.504	17,930.504	24,697.914	13,891.000	56,519.418
NI-63AM	.000	2,949.980	2,949.980	.000	.000	2,949.980
NF-237	.000	.016	.016	.000	.000	.016
P-32	.000	9,775.758	9,775.758	.000	.000	9,775.758
P-33	.000	.826	.826	.000	.000	.826
PA-231	.000	.003	.003	.000	.000	.003
PB-206	.000	.010	.010	.000	.000	.010
PM-147	.000	76.989	76.989	.000	.000	76.989
PO-208	.000	831.005	831.005	.000	.000	831.005
PO-209	.000	.022	.022	.000	.000	.022
PO-210	.000	.010	.010	.000	.000	.010
PT-193	.000	3,156.157	3,156.157	.000	.000	3,156.157
PB-236	.000	.001	.001	.000	.000	.001
PU-238	.000	.001	.001	.000	.000	.001
PU-239	.056	6.393	6.393	.202	6.195	17.363
PU-240	.000	1.426	1.426	.000	3.693	5.119

Table C-3 (Continued)

Isotope	A S Activity	A V Activity	A Activity	B S Activity	C S Activity	Total Activity
FU-241	.000	58.652	58.652	14.500	468.328	541.480
FU-242	.000	.031	.031	.000	.011	.042
RA-225	9.225	181.871	191.096	1.459	512.229	794.784
RB-83	.000	9.000	9.000	.000	.000	9.000
RB-86	.000	58.964	58.964	.000	.000	59.854
RE-187	.000	.002	.002	.000	.000	.002
RH-101	.000	1.000	1.000	.000	.000	1.000
RH-102	.000	1.000	1.000	.000	.000	1.000
RU-103	.000	18.230	18.230	636	99.686	118.546
RU-106	.000	7.295	7.295	2.770	34.670	44.735
S-35	.000	47.266	47.266	.000	.000	47.266
SB-122	.000	.020	.020	.000	.000	.020
SB-124	.000	132.556	132.556	.000	.000	132.556
SB-125	.000	862.146	862.146	222.000	519.310	1,603.456
SB-126	.000	.080	.080	.000	.000	.080
SC-41	.000	.050	.050	.000	.000	.050
SC-46	.000	21.570	21.570	.000	.000	21.570
SE-75	.000	2,215.717	2,215.717	.000	.000	2,215.717
SM-151	.000	1,488.700	1,488.700	.000	.000	1,488.700
SM-153	.000	22.810	22.810	.000	.000	22.810
SM-113	.000	186.131	186.131	.000	6.050	192.181
SM-117M	.000	100.310	100.310	.000	.000	100.310
SM-119	.000	1.531	1.531	.000	.000	1.531
SM-119M	.000	12.609	12.609	.000	.000	12.609
SR-85	.000	1.796	1.796	.000	286.243	288.039
SR-89	.000	219.877	219.877	63.376	145.413	428.666
SR-90	.000	1.630	1.630	.000	.000	1.630
SR-95	.000	.002	.002	.000	.000	.002
TA-179	.000	.050	.050	.000	.000	.050
TA-182	.000	.002	.002	.000	.000	.002
TB-157	.000	.002	.002	.000	.000	.002
TB-158	.000	.002	.002	.000	.000	.002
TC-98M	.000	390.877	390.877	9.750	7.099	407.726
TC-99	.000	836.380	836.380	.000	.000	836.380
TE-123M	.000	20.000	20.000	.000	.000	20.000
TE-125M	.000	169.049	169.049	51.000	.000	220.049
TH-228	.000	.377	.377	.000	.023	.400
TH-230	.000	.558	.558	.000	.000	.558
TH-232	.000	97.062	97.062	.000	.000	97.062
TH-NAT	.000	7.335	7.335	.000	.000	7.335
TL-201	.000	112.261	112.261	.000	.000	112.261
TL-202	.000	8.973	8.973	.000	.000	8.973
TL-204	.000	5.139	5.139	.000	.000	5.139
U-233	.000	.017	.017	.000	.000	.017
U-234	.000	449.835	449.835	.000	.001	449.836
U-235	.000	88.343	88.343	.000	.000	88.343
U-236	.000	.036	.036	.000	.000	.036
U-238	.000	11.030	11.030	.000	.001	11.030
U-NAT	.000	1,027.495	1,027.495	.000	.000	1,027.495

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
W-181	.000	.010	.010	.000	.000	.010
W-188	.000	5.000	5.000	.000	.000	5.000
XF-131M	.000	4.671	4.671	.000	.000	4.671
XE-133	.000	172.787	172.787	.000	.000	172.787
Y-88	.000	1.956	1.956	.000	.000	1.956
Y-90	.000	.111	.111	.000	.000	.111
YS-169	.000	.120	.120	.000	.000	.120
ZR-65	.000	99.622 429	99.622 429	.020	23.461	99.645 910
ZR-95	.000	2.158 058	2.158 058	3.020	2,246.704	4,409.792
Totals:	9.766	2,284,830.359	2,284,840.145	54,392,036.347	287,686.501	56,964,562.993

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AG-110M	.000	47.029	47.029	.000	.000	47.029
AM-241	.000	1.989	1.989	.000	.000	1.989
BA-133	.000	393	393	.000	.000	393
BA-140	.000	728	728	.000	.000	728
C-14	.000	18,954.124	18,954.124	.000	1,849.953	20,804.087
CA-45	.000	36.965	36.965	.000	.000	36.965
CD-109	.000	.009	.009	.000	.000	.009
CE-141	.000	228	228	.000	.000	228
CL-36	.000	4.027	4.027	.000	.000	4.027
CO-56	.000	456	456	.000	.000	456
CO-57	.000	12.301	12.301	.000	.000	12.301
CO-58	.000	3,884.669	3,884.669	.000	.000	3,884.669
CO-60	.000	4,335.229	4,335.229	.000	.000	4,335.229
CR-51	.000	673.117	673.117	.000	.000	673.117
CS-134	.000	1,125.012	1,125.012	.000	.000	1,125.012
CS-137	.000	1,868.199	1,868.199	.000	.000	1,868.199
FU-154	.000	.002	.002	.000	.000	.002
FE-55	.000	4,475.627	4,475.627	.000	.000	4,475.627
FE-59	.000	.002	.002	.000	.000	.002
H-3	.000	786,206.958	786,206.958	1,550.000	3.132	2,336,210.101
HE-203	.000	.001	.001	.000	.000	.001
I-123	.000	.092	.092	.000	.000	.092
I-125	.000	1,422.487	1,422.487	.000	.000	1,422.487
I-129	.000	.005	.005	.000	.000	.005
I-131	.000	31.306	31.306	.000	.000	31.306
IN-111	.000	.511	.511	.000	.000	.511
IR-192	.000	.004	.004	.000	.000	.004
KR-85	.000	.023	.023	.000	.000	.023
LA-140	.000	.838	.838	.000	.000	.838
MN-54	.000	616.905	616.905	.000	.000	616.905
NA-22	.000	11.302	11.302	.000	.000	11.302
NB-94	.000	.001	.001	.000	.000	.001
NB-95	.000	36.101	36.101	.000	.000	36.101
NI-63	.000	2,082.762	2,082.762	.000	.000	2,082.762
P-32	.000	147.826	147.826	.000	.000	147.826
PO-210	.000	2.300	2.300	.000	.000	2.300
PY-239	.000	.001	.001	.000	.000	.001
PY-240	.000	.001	.001	.000	.000	.001
PY-241	.000	.037	.037	.000	.000	.037
RA-226	.000	.048	.048	.000	.000	.048
RB-86	.000	500	500	.000	.000	500
S-35	.000	9,480.976	9,480.976	.000	.000	9,480.976
SR-126	.000	38.691	38.691	.000	.000	38.691
SC-46	.000	1.510	1.510	.000	.000	1.510
SE-75	.000	17.356	17.356	.000	.000	17.356
SK-113	.000	.002	.002	.000	.000	.002



Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
SR-85	.000	1.500	1.500	.000	.000	1.500
SR-99	.000	.244	.244	.000	.000	.244
TC-95	.000	.095	.095	.000	.000	.095
TH-228	.000	.064	.064	.000	.000	.064
TH-232	.000	.011	.011	.000	.000	.011
TH-NAT	.000	18.560	18.560	.000	.000	18.560
U-234	.000	6.190	6.190	.000	.000	6.190
U-235	.000	.216	.216	.000	.000	.216
U-238	.000	203.343	203.343	.000	.000	203.343
XE-131M	.000	.005	.005	.000	.000	.005
Y-86	.000	.001	.001	.000	.000	.001
ZM-65	.000	6.432.336	6.432.336	.000	.000	6.432.336
ZR-95	.000	23.800	23.800	.000	.000	23.800
Totals:	.000	842.214.945	842.214.945	1.550.000.000	1.953.096	2.394.168.041

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 04 BIOLOGICAL (NON-CARCASS WASTE)						
AM-241	.000	.015	.015	.000	.000	.015
BI-205	.000	.004	.004	.000	.000	.004
C-14	.000	361.129	361.129	.000	.000	361.129
CA-45	.000	2.500	2.500	.000	.000	2.500
CD-109	.000	.284	.284	.000	.000	.284
CE-141	.000	.796	.796	.000	.000	.796
CE-144	.000	.036	.036	.000	.000	.036
CL-36	.000	.050	.050	.000	.000	.050
CM-243	.000	.015	.015	.000	.000	.015
CM-244	.000	.015	.015	.000	.000	.015
CO-57	.000	14.485	14.485	.000	.000	14.485
CO-58	.000	.814	.814	.000	.000	.814
CO-60	.000	3.543	3.543	.000	.000	3.543
CR-51	.000	1.031	1.031	.000	.000	1.031
CS-134	.000	2.102	2.102	.000	.000	2.102
CS-137	.000	5.314	5.314	.000	.000	5.314
CU-67	.000	3.191	3.191	.000	.000	3.191
FE-55	.000	10.374	10.374	.000	.000	10.374
FE-59	.000	7.957	7.957	.000	.000	7.957
GA-67	.000	.156	.156	.000	.000	.156
GD-153	.000	.154	.154	.000	.000	.154
H-3	.000	1,823.968	1,823.968	.000	.000	1,823.968
I-123	.000	.004	.004	.000	.000	.004
I-125	.000	19.799	19.799	.000	.000	19.799
I-131	.000	2.514	2.514	.000	.000	2.514
IN-111	.000	.125	.125	.000	.000	.125
IN-114	.000	.001	.001	.000	.000	.001
MS-54	.000	.145	.145	.000	.000	.145
MA-22	.000	.166	.166	.000	.000	.166
NB-95	.000	.271	.271	.000	.000	.271
NI-63	.000	2.254	2.254	.000	.000	2.254
F-32	.000	1.712	1.712	.000	.000	1.712
PO-210	.000	.002	.002	.000	.000	.002
FU-236	.000	.015	.015	.000	.000	.015
FU-239	.000	.015	.015	.000	.000	.015
FU-240	.000	.015	.015	.000	.000	.015
FU-241	.000	.109	.109	.000	.000	.109
FU-242	.000	.015	.015	.000	.000	.015
RU-103	.000	.277	.277	.000	.000	.277
S-35	.000	6.683	6.683	.000	.000	6.683
SB-125	.000	.194	.194	.000	.000	.194
SC-46	.000	10.962	10.962	.000	.000	10.962
SM-113	.000	1.238	1.238	.000	.000	1.238
SR-85	.000	.872	.872	.000	.000	.872
SR-90	.000	.043	.043	.000	.000	.043
TU-99	.000	.007	.007	.000	.000	.007

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
TC-99M	.000	.002	.002	.000	.000	.002
TL-201	.000	3.255	3.255	.000	.000	3.255
XE-133	.000	4.034	4.034	.000	.000	4.034
ZN-65	.000	.076	.076	.000	.000	.076
ZR-95	.000	.036	.036	.000	.000	.036
Totals:	.000	2.292.774	2.292.774	.000	.000	2.292.774

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 08 DEMATERED RESINS						
AG-110M	.000	7,261.183	7,261.183	.000	5,158.209	12,411.383
AH-241	.000	.975	.975	.056	13.752	19.783
HA-140	.000	125.255	125.255	296.000	.000	422.255
HE-7	.000	3.870	3.870	.000	.000	3.870
C-14	.000	3,860.690	3,860.690	489.983	3,771.708	8,122.381
CE-141	.000	2.742	2.742	2.270	.000	5.012
CE-144	.000	947.356	947.356	24.200	12.640	13,811.556
CH-242	.000	1.532	1.532	35.636	.000	37.174
CM-243	.000	.089	.089	.022	.000	.111
CM-244	.000	.060	.060	.022	.000	.082
CO-57	.000	33.148	33.148	860.042	1,434.000	2,327.190
CO-58	.000	41,360.865	41,360.865	121,536.710	143,466.077	306,365.652
CO-60	.000	243,120.957	243,120.957	242,276.600	722,410.300	1,007,807.857
CR-51	.000	74,895.614	74,895.614	28,140.000	.000	103,035.614
CS-134	.000	17,732.895	17,732.895	681,618.000	187,596.000	886,955.895
CS-136	.000	4.835	4.835	255.000	.000	269.835
CS-137	.000	23,786.677	23,786.677	1,209,350.000	2,515,935.500	3,749,072.177
CS-144	.000	.000	.000	.000	2.930	2.930
EU-152	.000	.001	.001	.000	.000	.001
EU-154	.000	.532	.532	.000	.000	.532
EU-155	.000	5.053	5.053	.000	.000	5.053
FE-55	.000	127,170.738	127,170.738	175,464.000	117,137.600	419,772.338
FE-59	.000	6,470.636	6,470.636	3,125.000	.000	7,595.636
H-3	.000	10,680.996	10,680.996	1,721.010	149.806	12,551.812
MF-101	.000	.006	.006	.000	.000	.006
I-129	.000	23.486	23.486	3.239	7.426	34.151
I-131	.000	546.813	546.813	1,230.000	.000	1,776.813
LA-140	.000	137.312	137.312	341.000	.000	478.312
MB-54	.000	96,350.159	96,350.159	51,533.000	12,495.206	160,378.365
MB-56	.000	42,762.290	42,762.290	9,798.750	78.400	52,639.440
NI-59	.000	9.095	9.095	989.000	391.000	1,368.095
NI-63	.000	9,071.000	9,071.000	136,835.800	234,678.500	360,585.400
NP-237	.000	.082	.082	.002	.000	.084
NP-239	.000	.000	.000	12.900	.000	12.900
PM-147	.000	1,773.575	1,773.575	.000	655,572.000	658,345.575
PU-238	.000	1.450	1.450	1.038	26.625	27.113
PU-239	.000	4.167	4.167	2.432	67.928	74.527
PU-240	.000	1.015	1.015	269	22.438	24.333
PU-241	.000	213.891	213.891	517.129	1,703.160	2,434.171
RU-106	.000	.022	.022	.002	.000	.024
SR-124	.000	240.432	240.432	.000	17,792.000	18,032.432
SR-125	.000	2,447.422	2,447.422	49,320.350	3,840.000	54,607.772
SC-46	.000	3,810.115	3,810.115	7,969.200	19,406.660	21,285.975
SN-113	.000	.001	.001	.000	.000	.001
SR-89	.000	426.553	426.553	236.000	.000	662.553
		8.443	8.443	1,028.800	274.101	1,311.344

Table C-3 (Continued)

Isotope	A S Activity	A Y Activity	A Activity	B S Activity	C S Activity	Total Activity
SR-90	.002	1,216,810	1,216,810	3,301,570	4,827,174,450	4,831,592,830
TC-99	.000	33,891	33,891	4,513	1,469,044	1,507,448
TE-129M	.000	1,193,964	1,193,964	.000	1,922,060	3,116,024
TE-132	.000	.001	.001	.000	.000	.001
U-233	.000	.013	.013	.000	.000	.013
U-234	.000	.041	.041	.000	.135	.176
U-235	.000	.007	.007	.000	.026	.033
U-238	.000	.025	.025	.000	.184	.209
XE-131M	.000	1,760	1,760	20,600	.000	22,360
ZR-65	.000	192,795,386	192,795,386	333,517,100	.000	526,312,486
ZR-95	.000	7,928,275	7,928,275	5,964,000	14,200	13,905,475
Totals:	.000	918,465,903	918,465,903	3,063,903,227	6,876,759,516	12,861,128,646



Table C-3 (Continued)

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 09 SOLIDIFIED RESINS						
AM-241	.000	.000	.000	.752	.000	.752
C-14	.000	84.561	84.561	1,174.309	.000	1,258.870
CE-141	.000	.030	.030	.000	.000	.030
CE-144	.000	.066	.066	.000	.000	.066
CH-242	.000	.000	.000	.494	.000	.494
CH-243	.000	.000	.000	.006	.000	.006
CH-244	.000	.000	.000	.932	.000	.932
CO-57	.000	.000	.000	782.733	.000	782.733
CO-58	.000	137.177	137.177	25,115.125	.000	25,252.302
CO-60	.000	3,535.421	3,535.421	112,212.381	.000	115,747.802
CR-51	.000	45.333	45.333	.000	.000	45.333
CS-134	.000	17.863	17.863	113,835.650	.000	113,853.513
CS-137	.000	343.040	343.040	254,567.808	.000	254,910.849
FE-55	.000	3,084.062	3,084.062	48,204.276	.000	51,288.338
H-3	.000	149.959	149.959	1,354.074	.000	1,504.033
I-129	.000	.167	.167	.105	.000	.272
MR-54	.000	1,993.196	1,993.196	15,590.698	.000	17,583.895
MI-59	.000	.214	.214	488.195	.000	488.399
MI-63	.000	85.040	85.040	95,843.092	.000	95,928.132
NI-237	.000	.000	.000	.001	.000	.001
PU-238	.000	.000	.000	1.242	.000	1.242
PU-239	.000	.042	.042	1.449	.000	1.491
PU-240	.000	.000	.000	108	.000	108
PU-241	.000	.059	.059	79.054	.000	79.123
PU-242	.000	.000	.000	.001	.000	.001
RU-103	.000	1,920	1,920	.000	.000	1,920
SR-89	.000	.044	.044	31.832	.000	31.876
SR-90	.000	1.047	1.047	636.045	.000	637.092
TC-99	.000	345	345	1.116	.000	1.461
ZN-65	.000	43.421	43.421	.000	.000	43.421
Totals:	.000	9,523.007	9,523.007	669,831.480	.000	679,454.487

Table C-3 (Continued)

Isotope	A.S. Activity	A.U. Activity	A. Activity	B.S. Activity	C.S. Activity	Total Activity
Waste Description: 10 SORBED AQUEOUS LIQUID						
AG-110M	.000	.910	.910	.000	.000	.910
AM-241	.000	.006	.006	.000	.000	.006
AS-73	.000	.010	.010	.000	.000	.010
AU-195	.000	.495	.495	.000	.000	.495
BA-133	.000	4.353	4.353	.000	.000	4.353
BA-140	.000	.001	.001	.000	.000	.001
BR-82	.000	.061	.061	.000	.000	.061
C-14	.000	8.868 164	8.868 164	.000	.000	8.868 164
CA-45	.000	1.263 708	1.263 708	.000	.000	1.263 708
CD-109	.000	53.039	53.039	.000	.000	53.039
CE-137	.000	2.793	2.793	.000	.000	2.793
CE-139	.000	.120	.120	.000	.000	.120
CE-141	.000	1.638	1.638	.000	.000	1.638
CE-144	.000	.001	.001	.000	.000	.001
CL-36	.000	173.577	173.577	.000	.000	173.577
CO-57	.000	460.711	460.711	.000	.000	460.711
CO-58	.000	3.054	3.054	.000	.000	3.054
CR-60	.000	67.222	67.222	.000	.000	67.222
CR-51	.000	2.856 213	2.856 213	.000	.000	2.856 213
CS-134	.000	7.349	7.349	.000	.000	7.349
CS-137	.000	39.026	39.026	.000	.000	39.026
DY-159	.000	.171	.171	.000	.000	.171
EU-152	.000	.063	.063	.000	.000	.063
EU-154	.000	2.007	2.007	.000	.000	2.007
EU-155	.000	.922	.922	.000	.000	.922
FE-55	.000	140.958	140.958	.000	.000	140.958
FE-59	.000	10.276	10.276	.000	.000	10.276
GA-67	.000	70.510	70.510	.000	.000	70.510
GD-153	.000	43.706	43.706	.000	.000	43.706
GE-68	.000	19.903	19.903	.000	.000	19.903
H-3	.000	145,219.116	145,219.116	.000	.000	145,219.116
HC-203	.000	.056	.056	.000	.000	.056
I-123	.000	117.404	117.404	.000	.000	117.404
I-124	.000	26.000	26.000	.000	.000	26.000
I-125	.000	18,378.637	18,378.637	.000	.000	18,378.637
I-129	.000	5.000	5.000	.000	.000	5.000
I-131	.000	60.254	60.254	.000	.000	60.254
IN-111	.000	78.580	78.580	.000	.000	78.580
IN-114	.000	.031	.031	.000	.000	.031
IN-114M	.000	.017	.017	.000	.000	.017
K-40	.000	.027	.027	.000	.000	.027
KR-85	.000	2.940	2.940	.000	.000	2.940
MN-54	.000	9.287	9.287	.000	.000	9.287
MO-99	.000	3.752	3.752	.000	.000	3.752
NA-22	.000	251.185	251.185	.000	.000	251.185
NB-95	.000	.699	.699	.000	.000	.699

Table C-3 (Continued)

Isotope	A S Activity	A V Activity	A Activity	B S Activity	C S Activity	Total Activity
MI-59	.000	.033	.033	.000	.000	.033
MI-83	.000	1,577.631	1,577.631	.000	.000	1,577.631
P-32	.000	34,735.523	34,735.523	.000	.000	34,735.523
P-33	.000	3.411	3.411	.000	.000	3.411
PB-210	.000	586	586	.000	.000	586
PH-147	.000	23.445	23.445	.000	.000	23.445
PG-209	.000	.001	.001	.000	.000	.001
PO-210	.000	.002	.002	.000	.000	.002
PU-239	.000	.001	.001	.000	.000	.001
PU-241	.000	.108	.108	.000	.000	.108
RA-226	.000	.633	.633	.000	.000	.633
RA-228	.000	.003	.003	.000	.000	.003
RB-83	.000	33.000	33.000	.000	.000	33.000
RB-86	.000	87.026	87.026	.000	.000	87.026
RU-103	.000	.431	.431	.000	.000	.431
RU-106	.000	.002	.002	.000	.000	.002
S-35	.000	197,399.570	197,399.570	.000	.000	197,399.570
SB-125	.000	.762	.762	.000	.000	.762
SC-46	.000	3.030	3.030	.000	.000	3.030
SE-75	.000	14.407	14.407	.000	.000	14.407
SN-113	.000	14.183	14.183	.000	.000	14.183
SN-117	.000	.076	.076	.000	.000	.076
SN-119	.000	1.000	1.000	.000	.000	1.000
SN-119M	.000	4.552	4.552	.000	.000	4.552
SR-85	.000	3.241	3.241	.000	.000	3.241
SR-89	.000	.004	.004	.000	.000	.004
SR-90	.000	13.484	13.484	.000	.000	13.484
TC-99	.000	74.402	74.402	.000	.000	74.402
TC-99M	.000	8.252	8.252	.000	.000	8.252
TH-228	.000	.216	.216	.000	.000	.216
TH-229	.000	.002	.002	.000	.000	.002
TH-232	.000	1.302	1.302	.000	.000	1.302
TH-MAT	.000	.061	.061	.000	.000	.061
TL-201	.000	8.490	8.490	.000	.000	8.490
TL-204	.000	.005	.005	.000	.000	.005
TM-170	.000	.010	.010	.000	.000	.010
U-233	.000	.100	.100	.000	.000	.100
U-235	.000	.025	.025	.000	.000	.025
U-238	.000	1.421	1.421	.000	.000	1.421
U-NAT	.000	715.941	715.941	.000	.000	715.941
Y-88	.000	.202	.202	.000	.000	.202
Y-90	.000	.411	.411	.000	.000	.411
ZN-63	.000	1.000	1.000	.000	.000	1.000
ZN-65	.000	52.892	52.892	.000	.000	52.892
ZR-95	.000	.49	.49	.000	.000	.49
Totals:	.000	413,025.062	413,025.062	.000	.000	413,025.062

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 11 SOLID NON-AQUEOUS LIQUID						
AG-110M	.244	.000	.244	.000	.000	.244
AM-241	.016	.000	.016	.000	.000	.016
C-14	1.460	.000	1.460	.000	.000	1.460
CA-45	.000	.127	.127	.000	.000	.127
CE-144	.068	.000	.068	.000	.000	.068
CM-242	.001	.003	.004	.000	.000	.004
CM-243	.002	.000	.002	.000	.000	.002
CM-244	.002	.000	.002	.000	.000	.002
CO-57	.020	.000	.020	.000	.000	.020
CO-58	2.210	.017	2.227	.000	.000	2.227
CO-60	300.000	4.535	304.535	.000	.000	304.535
CS-134	3.430	.034	3.464	.000	.000	3.464
CS-137	131.000	.134	131.134	.000	.000	131.134
FE-55	75.400	3.161	78.561	.000	.000	78.561
H-3	5.090	.000	5.090	.000	.000	5.090
I-125	.000	.034	.034	.000	.000	.034
MN-54	.103	.055	.158	.000	.000	.158
NI-58	4.950	.000	4.950	.000	.000	4.950
NI-63	309.000	.050	309.050	.000	.000	309.050
P-32	.000	4.836	4.836	.000	.000	4.836
PU-238	.017	.000	.017	.000	.000	.017
PU-239	.009	.000	.009	.000	.000	.009
PU-240	.009	.000	.009	.000	.000	.009
PU-241	.703	.003	.706	.000	.000	.706
SB-125	.000	.078	.078	.000	.000	.078
SR-90	.115	5.003	5.118	.000	.000	5.118
Totals:	834.849	18.170	853.019	.000	.000	853.019

Table C-3 (Continued)

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT						
H-3	.000	1.230	1.230	.000	.000	1.230
I-125	.000	.020	.020	.000	.000	.020
P-32	.000	.450	.450	.000	.000	.450
RA-226	.000	.900	.900	.000	.000	.900
S-35	.000	.420	.420	.000	.000	.420
Totals:	.000	3.020	3.020	.000	.000	3.020



Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 13 AQUEOUS LIQUIDS IN VIALS IN SOLVENT						
AG-110	.000	2.000	2.000	.000	.000	2.000
BA-133	.000	.241	.241	.000	.000	.241
C-14	.000	1,077.593	1,077.593	.000	.000	1,077.593
CA-45	.000	138.961	138.961	.000	.000	138.961
CA-47	.000	.001	.001	.000	.000	.001
CD-109	.000	.675	.675	.000	.000	.675
CE-139	.000	.002	.002	.000	.000	.002
CE-141	.000	.068	.068	.000	.000	.068
CL-36	.000	2.615	2.615	.000	.000	2.615
CO-57	.000	145.661	145.661	.000	.000	145.661
CO-58	.000	.318	.318	.000	.000	.318
CO-60	.000	.032	.032	.000	.000	.032
CR-51	.000	72.457	72.457	.000	.000	72.457
CS-137	.000	.604	.604	.000	.000	.604
FE-59	.000	22.475	22.475	.000	.000	22.475
GA-67	.000	1.186	1.186	.000	.000	1.186
GD-153	.000	1.220	1.220	.000	.000	1.220
H-3	.000	9,930.707	9,930.707	.000	.000	9,930.707
HG-203	.000	.002	.002	.000	.000	.002
I-123	.000	.152	.152	.000	.000	.152
I-125	.000	2,765.563	2,765.563	.000	.000	2,765.563
I-129	.000	.021	.021	.000	.000	.021
I-131	.000	85.057	85.057	.000	.000	85.057
IN-111	.000	5.106	5.106	.000	.000	5.106
IN-114	.000	.600	.600	.000	.000	.600
IN-114M	.000	1.110	1.110	.000	.000	1.110
MN-54	.000	.020	.020	.000	.000	.020
NA-22	.000	4.157	4.157	.000	.000	4.157
NB-95	.000	1.464	1.464	.000	.000	1.464
NI-63	.000	12.039	12.039	.000	.000	12.039
P-32	.000	454.334	454.334	.000	.000	454.334
PB-210	.000	.266	.266	.000	.000	.266
RB-86	.000	.555	.555	.000	.000	.555
RU-103	.000	2.009	2.009	.000	.000	2.009
S-35	.000	6,324.600	6,324.600	.000	.000	6,324.600
SC-46	.000	2.081	2.081	.000	.000	2.081
SE-75	.000	2.014	2.014	.000	.000	2.014
SN-113	.000	2.495	2.495	.000	.000	2.495
SR-85	.000	.233	.233	.000	.000	.233
SR-90	.000	.001	.001	.000	.000	.001
TC-99M	.000	1.558	1.558	.000	.000	1.558
TL-201	.000	.512	.512	.000	.000	.512
U-238	.000	.390	.390	.000	.000	.390
U-NAT	.000	.196	.196	.000	.000	.196
XE-133	.000	.270	.270	.000	.000	.270
Y-86	.000	.002	.002	.000	.000	.002

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
YB-189	.007	.045	.046	.000	.000	.046
ZN-65	.070	.186	.196	.000	.000	.196
Totals:	.000	21,064.865	21,064.865	.000	.000	21,064.865

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 14 ANIMAL CARCASSES IN LIME AND SORBEW.						
BR-82	.000	.001	.001	.000	.000	.001
C-14	.000	1,117.440	1,117.440	.000	.000	1,117.440
CA-45	.000	426.464	426.464	.000	.000	426.464
CA-47	.000	.003	.003	.000	.000	.003
CD-109	.000	1.119	1.119	.000	.000	1.119
CE-141	.000	351.317	351.317	.000	.000	351.317
CE-144	.000	3.331	3.331	.000	.000	3.331
CE-147	.000	.170	.170	.000	.000	.170
CL-36	.000	.276	.276	.000	.000	.276
CO-57	.000	56.630	56.630	.000	.000	56.630
CO-58	.000	.080	.080	.000	.000	.080
CO-60	.000	1.439	1.439	.000	.000	1.439
CR-51	.000	862.162	862.162	.000	.000	862.162
CU-64	.000	.007	.007	.000	.000	.007
CU-67	.000	.007	.007	.000	.000	.007
DY-159	.000	2.5	2.5	.000	.000	2.5
FE-55	.000	1.196	1.196	.000	.000	1.196
FE-59	.000	13.422	13.422	.000	.000	13.422
GA-67	.000	.438	.438	.000	.000	.438
GD-153	.000	100.273	100.273	.000	.000	100.273
GE-68	.000	.001	.001	.000	.000	.001
H-3	.000	30,939.420	30,939.420	.000	.000	30,939.420
HG-203	.000	.257	.257	.000	.000	.257
I-123	.000	10.022	10.022	.000	.000	10.022
I-125	.000	339.912	339.912	.000	.000	339.912
I-131	.000	138.259	138.259	.000	.000	138.259
IN-111	.000	20.334	20.334	.000	.000	20.334
IN-113	.000	.002	.002	.000	.000	.002
IN-114	.000	4.640	4.640	.000	.000	4.640
MN-51	.000	.001	.001	.000	.000	.001
MN-54	.000	8.148	8.148	.000	.000	8.148
NA-22	.000	.789	.789	.000	.000	.789
NB-95	.000	557.369	557.369	.000	.000	557.369
NI-63	.000	1.060	1.060	.000	.000	1.060
P-32	.000	12.418	12.418	.000	.000	12.418
PB-210	.000	.010	.010	.000	.000	.010
PO-210	.000	.088	.088	.000	.000	.088
RB-86	.000	1.735	1.735	.000	.000	1.735
RB-95	.000	.001	.001	.000	.000	.001
RU-103	.000	285.672	285.672	.000	.000	285.672
S-35	.000	287.193	287.193	.000	.000	287.193
SC-41	.000	.058	.058	.000	.000	.058
SC-46	.000	519.361	519.361	.000	.000	519.361
SC-47	.000	.001	.001	.000	.000	.001
SE-75	.000	170.574	170.574	.000	.000	170.574
SN-113	.000	30.336	30.336	.000	.000	30.336

Table C-3 (Continued)

Isolates	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
SR-85	.000	592.123	592.123	.000	.000	592.123
SX-89	.000	5.222	5.222	.000	.000	5.222
TC-99	.000	23.151	23.151	.000	.000	23.151
TC-99M	.000	84.721	84.721	.000	.000	84.721
TL-201	.000	39.677	39.677	.000	.000	39.677
U-235	.000	.005	.005	.000	.000	.005
U-238	.000	.011	.011	.000	.000	.011
XE-133	.000	.005	.005	.000	.000	.005
Y-88	.000	.799	.799	.000	.000	.799
ZN-65	.000	18.148	18.148	.000	.000	18.148
Totals:	.000	37,027.511	37,027.511	.000	.000	37,027.511

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 15 GAS						
KR-85	.000	147.044	147.044	.000	.000	147.44
RA-226	.000	3.240	3.240	.000	.000	3.240
Totals:	.000	150.284	150.284	.000	.000	150.284



Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 20 EVAPORATOR BOTTOMS						
AJ-110	.000	315.833	315.833	.000	.000	315.833
AG-110H	.000	246.583	246.583	.000	.000	246.583
AM-241	.000	151	151	.000	.000	151
C-14	.000	294.587	294.587	.000	.000	294.587
CE-144	.000	7.443	7.443	.000	.000	7.443
CM-242	.000	1.666	1.666	.000	.000	1.666
CM-243	.000	.069	.069	.000	.000	.069
CM-244	.000	.336	.336	.000	.000	.336
CO-57	.000	128.861	128.861	.000	.000	128.861
CO-58	.000	6,753.798	6,753.798	.000	.000	6,753.798
CO-60	.000	5,139.411	5,139.411	.000	.000	5,139.411
CR-51	.000	59.708	59.708	.000	.000	59.708
CS-134	.000	2,701.662	2,701.662	.000	.000	2,701.662
CS-136	.000	289.000	289.000	.000	.000	289.000
CS-137	.000	5,155.887	5,155.887	.000	.000	5,155.887
FE-55	.000	5,828.178	5,828.178	.000	.000	5,828.178
FE-59	.000	16.124	16.124	.000	.000	16.124
H-3	.000	17,812.009	17,812.009	.000	.000	17,812.009
I-129	.000	2.201	2.201	.000	.000	2.201
I-131	.000	.357	.357	.000	.000	.357
MN-54	.000	582.900	582.900	.000	.000	582.900
NB-95	.000	316.325	316.325	.000	.000	316.325
NB-97	.000	10.437	10.437	.000	.000	10.437
NI-59	.000	8.965	8.965	.000	.000	8.965
NI-63	.000	2,576.002	2,576.002	.000	.000	2,576.002
NP-237	.000	.005	.005	.000	.000	.005
PU-238	.000	.442	.442	.000	.000	.442
PU-239	.000	.176	.176	.000	.000	.176
PU-241	.000	14.842	14.842	.000	.000	14.842
PU-242	.000	.167	.167	.000	.000	.167
SB-124	.000	1,230.291	1,230.291	.000	.000	1,230.291
SB-125	.000	127.508	127.508	.000	.000	127.508
SE-75	.000	.535	.535	.000	.000	.535
SN-113	.000	16.200	16.200	.000	.000	16.200
SR-89	.000	3.611	3.611	.000	.000	3.611
SR-90	.000	21.134	21.134	.000	.000	21.134
SR-92	.000	41.897	41.897	.000	.000	41.897
TC-99	.000	28.322	28.322	.000	.000	28.322
TE-125M	.000	5.534	5.534	.000	.000	5.534
XE-131M	.000	.010	.010	.000	.000	.010
ZN-65	.000	29.976	29.976	.000	.000	29.976
ZR-95	.000	75.543	75.543	.000	.000	75.543
ZR-97	.000	10.437	10.437	.000	.000	10.437
Totals:	.000	49,855.223	49,855.223	.000	.000	49,855.223

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
AG-110	.000	1,004.979	1,004.979	.000	.000	1,004.979
AG-110M	.000	341.280	311.280	.000	.000	341.280
AM-241	.000	1.452	1.452	.000	2.802	4.254
AU-195	.000	2.173	2.173	.000	.000	2.173
BA-133	.000	.911	.911	.000	.000	.911
BA-140	.000	38.193	38.193	.000	.000	38.193
BE-7	.000	4.232	4.232	.000	.000	4.232
BI-207	.000	.001	.001	.000	.000	.001
C-14	.000	16,662.365	16,662.365	.000	.022	16,662.387
CA-45	.000	187.716	187.716	.000	.000	187.716
CA-47	.000	.090	.090	.000	.000	.090
CD-109	.000	33.320	33.320	.000	.000	33.320
CE-134	.000	.076	.076	.000	.000	.076
CE-141	.000	26.555	26.555	.000	.000	26.555
CE-144	.000	374.061	374.061	.000	.000	374.061
CF-252	.000	.002	.002	.000	.000	.002
CL-36	.000	22.451	22.451	.000	.000	22.451
CM-242	.000	2.643	2.643	.000	.001	2.644
CM-243	.000	.854	.854	.000	.000	.854
CM-244	.000	.080	.080	.000	.000	.080
CO-56	.000	.590	.590	.000	.000	.590
CO-57	.000	356.093	356.093	.000	.000	356.093
CO-58	.000	4,929.667	4,929.667	.000	.000	4,929.667
CO-60	.000	11,481.059	11,481.059	.000	709.140	12,190.199
CR-51	.000	4,589.139	4,589.139	.000	.000	4,589.139
CR-56	.000	.007	.007	.000	.000	.007
CS-134	.000	2,222.924	2,222.924	.000	.000	2,222.924
CS-136	.000	6.162	6.162	.000	.000	6.162
CS-137	.000	9,092.976	9,092.976	.000	.000	9,092.976
CS-144	.000	1.569	1.569	.000	.000	1.569
CS-67	.000	.008	.008	.000	.000	.008
EU-152	.000	3.193	3.193	.000	.000	3.193
EU-154	.000	.109	.109	.000	.000	.109
EU-155	.000	4.54	4.54	.000	.000	4.54
FE-55	.000	19,582.614	19,582.614	.000	26.221	19,608.835
FE-59	.000	305.697	305.697	.000	.000	305.697
GA-67	.000	5.101	5.101	.000	.000	5.101
GA-68	.000	5.602	5.602	.000	.000	5.602
GD-153	.000	1.778	1.778	.000	.000	1.778
GE-68	.000	12.117	12.117	.000	.000	12.117
H-3	.000	131,636.019	131,636.019	.000	4.157	131,640.176
HF-181	.000	.433	.433	.000	.000	.433
HG-203	.000	.390	.390	.000	.000	.390
I-121	.000	.001	.001	.000	.000	.001
I-123	.000	14.715	14.715	.000	.000	14.715
I-125	.000	14,045.059	14,045.059	.000	.000	14,045.059

Table C-3 (Continued)

Isotope	A E Activity	A V Activity	A Activity	B S Activity	C S Activity	Total Activity
I-129	.000	9.289	9.289	.000	3.045	12.334
I-131	.009	1,281.791	1,281.801	.000	.000	1,281.791
I-133	.000	10.447	10.447	.000	.000	10.447
IN-111	.000	33.170	33.170	.000	.000	33.170
IN-114	.000	.255	.255	.000	.000	.255
IR-192	.000	1.202	1.202	.000	.000	1.202
KR-85	.000	4.967	4.967	.000	.000	4.967
LA-140	.000	45.019	45.019	.000	.000	45.019
MN-54	.000	2,309.608	2,309.608	.000	.000	2,309.608
MO-99	.000	11.316	11.316	.000	.000	11.316
NA-22	.000	67.411	67.411	.000	.000	67.411
NA-24	.000	.002	.002	.000	.000	.002
NB-94	.000	2.690	2.690	.000	.000	2.690
NB-95	.000	1,656.464	1,656.464	.000	.000	1,656.464
NE-97	.000	39.003	39.003	.000	.000	39.003
NI-58	.000	2.117	2.117	.000	.000	2.117
NI-63	.000	3,058.677	3,058.677	.000	.000	3,058.677
NP-237	.000	8,796.587	8,796.587	.000	.000	8,796.587
P-32	.000	.042	.042	.000	.000	.042
PB-210	.000	106.658	106.658	.000	.000	106.658
PM-147	.000	.010	.010	.000	.000	.010
PO-208	.000	2.534	2.534	.000	.000	2.534
PO-210	.000	1.742	1.742	.000	.000	1.742
PU-238	.000	2.357	2.357	.000	.000	2.357
PU-239	.000	.058	.058	.000	.000	.058
PU-240	.000	183.389	183.389	.000	.000	183.389
PU-241	.000	.452	.452	.000	.000	.452
PU-242	.000	28.122	28.122	.000	.000	28.122
RA-226	.000	20.858	20.858	.000	.000	20.858
RB-86	.000	132.471	132.471	.000	.000	132.471
RH-106	.000	258.068	258.068	.000	.000	258.068
RJ-103	.000	144.848	144.848	.000	.000	144.848
RU-106	.000	9,503.063	9,503.063	.000	.000	9,503.063
S-35	.000	3.448	3.448	.000	.000	3.448
SB-122	.000	2,835.607	2,835.607	.000	.000	2,835.607
SB-124	.000	178.606	178.606	.000	.000	178.606
SB-125	.000	20.814	20.814	.000	.000	20.814
SC-46	.000	.010	.010	.000	.000	.010
SC-50	.000	7.557	7.557	.000	.000	7.557
SE-75	.000	6.600	6.600	.000	.000	6.600
SM-153	.000	.010	.010	.000	.000	.010
SN-111	.000	76.400	76.400	.000	.000	76.400
SN-113	.000	9.513	9.513	.000	.000	9.513
SR-85	.000	434.875	434.875	.000	.000	434.875
SR-89	.000	106.627	106.627	.000	.000	106.627
SR-90	.000	17.958	17.958	.000	.000	17.958
SR-92	.000	.002	.002	.000	.000	.002
SR-95	.000	1.672	1.672	.000	.000	1.672
TA-182	.000					

Table C-3 (Continued)

Isotope	A S Activity	A D Activity	A Activity	B S Activity	C S Activity	Total Activity
TC-99	.000	396.475	396.475	.000	216.940	613.415
TC-99M	.000	147.524	147.524	.000	.000	147.524
TE-123	.000	39.976	39.976	.000	.000	39.976
TE-125M	.000	.290	.290	.000	1.019.200	1.019.490
TH-227	.000	.010	.010	.000	.000	.010
TH-232	.000	4.094	4.094	.000	.000	4.094
TH-NAT	.000	1.159	1.159	.000	.000	1.159
TL-201	.000	13.088	13.088	.000	.000	13.088
TL-204	.000	1.988	1.988	.000	.000	1.988
U-232	.000	.001	.001	.000	.000	.001
U-233	.000	.600	.600	.000	.000	.600
U-234	.000	5.615	5.615	.000	.152	5.767
U-235	.000	3.365	3.365	.000	.009	3.374
U-238	.000	74.256	74.256	.000	.316	74.572
U-NAT	.000	2,372.297	2,372.297	.000	.000	2,372.297
W-181	.000	.020	.020	.000	.000	.020
XE-127	.000	7.448	7.448	.000	.000	7.448
XE-133	.000	23.750	23.750	.000	.000	23.750
Y-88	.000	.007	.007	.000	.007	.014
Y-90	.000	3.580	3.580	.000	.000	3.580
YB-169	.000	.050	.050	.000	.000	.050
ZN-65	.000	954.751	954.751	.000	.000	954.751
ZR-80	.000	930	930	.000	.000	930
ZR-95	.000	626.149	626.149	.000	.000	626.149
ZR-97	.000	39.001	39.001	.000	.000	39.001
Totals:	.000	253,150.164	253,150.164	.000	1,066,295.522	1,321,445.686

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 22 NON-COMPACTED DRY ACTIVE WASTE						
AG-110	.000	86.092	86.092	.000	.000	86.092
AG-110H	.000	76.915	76.915	.000	.000	76.915
AM-241	.000	.860	.860	.000	.000	.860
EA-133	.000	.001	.001	.000	.000	.001
EA-140	.000	.156	.156	.000	.000	.156
C-14	.000	361.133	361.133	.000	64.000	445.133
CA-45	.000	.032	.032	.000	.000	.032
CE-141	.000	45.985	45.985	.000	.000	45.985
CE-144	.000	138.397	138.397	.000	151.000	289.397
CH-242	.000	.283	.283	.000	.000	.283
CH-243	.000	.022	.022	.000	.000	.022
CH-244	.000	.027	.027	.000	.000	.027
CO-57	.000	1.636	1.636	.000	.000	1.636
CO-58	.000	1.239.054	1.239.054	.000	.000	1.398.054
CO-60	.000	5.523.935	5.523.935	.000	3.206.000	8.729.935
CR-51	.000	526.293	526.293	.000	.000	526.293
CS-134	.000	372.546	372.546	.000	37.000	409.546
CS-136	.000	.089	.089	.000	.000	.089
CS-137	.000	2.139.731	2.139.731	.000	309.000	2.448.731
EU-152	.000	8.430	8.430	.000	.000	8.430
EU-155	.000	.023	.023	.000	.000	.023
FE-55	.000	8.859.061	8.859.061	.000	14.940.000	25.799.061
FE-59	.000	83.072	83.072	.000	.000	83.072
GD-153	.000	.020	.020	.000	.000	.020
H-3	.000	3.403.776	3.403.776	.000	434.000	3.837.776
I-125	.000	39.353	39.353	.000	.000	39.353
I-129	.000	.495	.495	.000	.000	.495
I-131	.000	15.469	15.469	.000	.000	15.469
KR-85	.000	125.000	125.000	.000	.000	125.000
MN-54	.000	661.722	661.722	.000	95.000	756.722
NA-22	.000	.040	.040	.000	.000	.040
NE-94	.000	7.580	7.580	.000	.000	7.580
NB-95	.000	260.598	260.598	.000	.000	260.598
NB-97	.000	.141	.141	.000	.000	.141
NI-59	.000	.005	.005	.000	.000	.005
NI-63	.000	1.359.968	1.359.968	.000	3.816.000	5.175.968
NP-237	.000	.007	.007	.000	.000	.007
P-32	.000	.844	.844	.000	.000	.844
PM-147	.000	.335	.335	.000	.000	.335
PO-210	.000	.217	.217	.000	.000	.217
PO-236	.000	.001	.001	.000	.000	.001
PO-238	.000	.540	.540	.000	4.000	4.540
PO-239	.000	.503	.503	.000	4.000	4.503
PO-240	.000	.501	.501	.000	.000	.501
PO-241	.000	85.151	85.151	.000	439.000	534.151
PO-242	.000	.008	.008	.000	.000	.008



Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
RA-226	.000	177.023	177.023	.000	.000	177.023
RA-228	.000	6.970	6.970	.000	.000	6.970
RH-105	.000	32.858	32.858	.000	.000	32.858
RU-103	.000	143.744	143.744	.000	.000	143.744
RU-106	.000	170.819	170.819	.000	812.000	982.819
S-35	.000	8.380	8.380	.000	.000	8.380
SB-124	.000	909.652	909.652	.000	.000	909.652
SB-125	.000	6.604	6.604	.000	126.000	132.604
SM-113	.000	.283	.283	.000	.000	.283
SR-89	.000	153.643	153.643	.000	.000	153.643
SR-90	.000	45.191	45.191	.000	51.000	96.191
SR-92	.000	32.114	32.114	.000	.000	32.114
TC-98	.000	85.150	85.150	.000	.000	85.150
TC-99M	.000	.066	.066	.000	.000	.066
TE-125M	.000	.036	.036	.000	.000	.036
TH-228	.000	6.970	6.970	.000	.000	6.970
TH-230	.000	.001	.001	.000	.000	.001
TH-232	.000	.206	.206	.000	.000	.206
TH-NAT	.000	180.308	180.308	.000	.000	180.308
U-233	.000	21.036	21.036	.000	.000	21.036
U-234	.000	244.246	244.246	.000	.000	244.246
U-235	.000	194.340	194.340	.000	.001	194.341
U-238	.000	233.674	233.674	.000	.000	233.674
U-NAT	.000	.001	.001	.000	.000	.001
Y-90	.000	10.590	10.590	.000	.000	10.590
ZN-65	.000	97.334	97.334	.000	.000	97.334
ZR-95	.000	86.023	86.023	.000	.000	86.023
ZR-97	.000	.141	.141	.000	.000	.141
Totals:	.000	28,283.390	28,283.390	.000	24,667.001	52,950.391

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 23 CARTRIDGE-TYPE FILTER MEDIA						
AG-110	.000	.046	.046	.000	.000	.046
AG-110M	.000	.085	.085	.000	.000	.085
AM-241	.000	.045	.045	.000	.000	.045
BE-7	.000	1.801	1.801	.000	.000	1.801
C-14	.000	939	939	104	.000	1,043
CD-109	.000	169	169	.000	.000	169
CD-113M	.000	111	111	.000	.000	111
CE-141	.000	3.167	3.167	.000	.000	3.167
CE-144	.000	.113	.113	.000	.000	.113
CH-242	.000	.033	.033	.000	.000	.033
CH-243	.000	.036	.036	.000	.000	.036
CH-244	.000	.036	.036	.000	.000	.036
CO-57	.000	67.792	67.792	.000	.000	67.792
CO-58	.000	5.044	5.044	20.980	.000	26.024
CO-60	.000	5.195	5.195	22.490	.000	27.685
CR-51	.000	512	512	2.122	.000	514
CS-134	.000	85.405	85.405	.000	.000	85.405
CS-137	.000	303	303	45.400	.000	348
FE-55	.000	15.890	15.890	1.409	.000	17.299
FE-59	.000	387	387	1.409	.000	388
H-3	.000	13,428	13,428	176	.000	13,604
I-125	.000	1.000	1.000	.000	.000	1.000
I-129	.000	130	130	.000	.000	130
MN-54	.000	669	669	2.880	.000	671
NB-95	.000	237	237	4.720	.000	5.057
NI-58	.000	.097	.097	.000	.000	.097
NI-63	.000	1,010	1,010	2.680	.000	3,690
NI-65	.000	762	762	.000	.000	762
NI-65	.000	.004	.004	.000	.000	.004
NI-237	.000	.792	.792	.000	.000	.792
PU-238	.000	.163	.163	.000	.000	.163
PU-239	.000	.091	.091	.000	.000	.091
PU-240	.000	32	32	.000	.000	32
PU-241	.000	32	32	.000	.000	32
PU-242	.000	.003	.003	.000	.000	.003
RU-103	.000	5.630	5.630	.000	.000	5.630
RU-106	.000	3.490	3.490	.000	.000	3.490
SB-124	.000	11	11	.000	.000	11
SB-126	.000	1,880	1,880	.000	.000	1,880
SN-113	.000	.001	.001	.000	.000	.001
SR-89	.000	41	41	.000	.000	41
SR-90	.000	110	110	.000	.000	110
TC-98	.000	.091	.091	.000	.000	.091
TC-99M	.000	376	376	.000	.000	376
TH-NAT	.000	167	167	.000	.000	167
U-234	.000	5.817	5.817	.000	.000	5.817
U-235	.000	5.817	5.817	.000	.000	5.817

Table C-3 (Continued)

	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Inclodes						
U-238	.000	4.974	4.974	.000	.001	4.975
ZR-65	.000	192.005	192.005	.000	24.255	216.260
ZR-95	.000	144.465	144.465	3.000.000	988.793	4,333.258
Totals:	.000	49,491.229	49,491.229	106,214.376	179,533.189	335,238.794

C-78

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 24 NON-CARTRIDGE FILTER MEDIA						
AM-241	.000	.000	.000	.007	.000	.007
C-14	.000	366.811	366.811	298.270	.000	665.081
CE-144	.000	.000	.000	3.037	.000	3.037
CM-242	.000	.000	.000	.023	.000	.023
CM-243	.000	.000	.000	.003	.000	.003
CM-244	.000	.000	.000	.003	.000	.003
CO-57	.000	.000	.000	16.265	.000	16.265
CO-58	.000	23,089.875	23,089.875	499.197	.000	23,589.072
CO-60	.000	178,639.741	178,639.741	2,182.006	.000	180,821.747
CR-51	.000	443,631.676	443,631.676	.000	.000	443,631.676
CS-134	.000	.489	.489	2,790.567	.000	2,791.056
CS-137	.000	1,034.120	1,034.120	4,619.307	.000	5,653.427
FE-55	.000	682,703.299	682,703.299	9,154.492	.000	691,857.791
FE-59	.000	27,235.688	27,235.688	.000	.000	27,235.688
H-3	.000	2,053.902	2,053.902	484.443	.000	2,538.345
I-129	.000	.000	.000	.027	.000	.027
MN-54	.000	108,233.340	108,233.340	298.486	.000	108,529.826
NB-95	.000	7,010.000	7,010.000	5.629	.000	7,015.629
NI-59	.000	.000	.000	14.211	.000	14.211
NI-63	.000	4,127.831	4,127.831	1,384.369	.000	5,512.200
PU-238	.000	.000	.000	.007	.000	.007
PU-239	.000	.000	.000	.012	.000	.012
PU-240	.000	.000	.000	.012	.000	.012
PU-241	.000	.000	.000	1.865	.000	1.865
SB-124	.000	.471	.471	.000	.000	.471
SB-125	.000	.056	.056	29.459	.000	29.515
SR-89	.000	.000	.000	.020	.000	.020
SR-90	.000	14.580	14.580	.045	.000	15.625
TC-99	.000	.183	.183	.007	.000	.190
ZN-65	.000	1,255.000	1,255.000	.000	.000	1,255.000
Totals:	.000	1,479,397.062	1,479,397.062	21,780.769	.000	1,501,177.831

Table C-3 (Continued)



Table C-3 (Continued)

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 25 ACTIVATED REACTOR HARDWARE						
AM-241	.000	.000	.000	.000	.002	.002
C-14	.000	1.900	1.900	.000	1,500.000	1,501.900
CH-242	.000	.000	.000	.000	.020	.020
CM-243	.000	.000	.000	.000	.002	.002
CO-60	.000	364.400	364.400	.000	7,155,920.000	7,156,284.400
CR-51	.000	.000	.000	.000	428,280.000	428,280.000
EU-152	.000	.190	.190	.000	.000	.190
FE-55	.000	.000	.000	.000	13,124,680.000	13,124,680.000
H-3	.000	22.200	22.200	.000	146,372.200	146,372.200
MN-54	.000	.000	.000	.000	391,140.000	391,140.000
NB-94	.000	.000	.000	.000	13.000	13.000
NI-59	.000	.000	.000	.000	6,100.000	6,100.000
NI-63	.000	.000	.000	.000	950,440.000	950,440.000
PU-236	.000	.000	.000	.000	.003	.003
PU-239	.000	.000	.000	.000	.002	.002
PU-241	.000	.000	.000	.000	130	130
TC-99	.000	.000	.000	.000	13.000	13.000
TH-232	.000	.011	.011	.000	.000	.011
U-235	.000	.000	.000	.000	.001	.001
U-238	.000	2.360	2.360	.000	.000	2.360
Totals:	.000	391.061	391.061	.000	22,214,436.160	22,214,827.221



Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 26 SOLIDIFIED CHELATES						
C-14	.000	75.049	75.049	.000	.000	75.048
CO-58	.000	210.023	210.023	.000	.000	210.023
CO-60	.000	6,002.448	6,002.448	.000	.000	6,002.448
CR-51	.000	102.000	102.000	.000	.000	102.000
CS-134	.000	14.500	14.500	.000	.000	14.500
CS-137	.000	120.000	120.000	.000	.000	120.000
FE-55	.000	34,154.448	34,154.448	.000	.000	34,154.448
FE-59	.000	217.800	217.800	.000	.000	217.800
H-3	.000	16.671	16.671	.000	.000	16.671
I-129	.000	.132	.132	.000	.000	.132
MN-54	.000	3,287.526	3,287.526	.000	.000	3,287.526
NI-63	.000	30.623	30.623	.000	.000	30.623
SR-90	.000	.230	.230	.000	.000	.230
TC-99	.000	.133	.133	.000	.000	.133
Totals:	.000	44,231.583	44,231.583	.000	.000	44,231.583

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 27 SOLIDIFIED OIL						
AM-241	.000	.066	.066	.000	.000	.066
AM-243	.000	.040	.040	.000	.000	.040
C-14	.000	78.330	78.330	.000	.000	78.330
CE-144	.000	.048	.048	.000	.000	.048
CM-241	.000	.021	.021	.000	.000	.021
CM-242	.000	.073	.073	.000	.000	.073
CM-243	.000	.042	.042	.000	.000	.042
CM-244	.000	.044	.044	.000	.000	.044
CO-57	.000	.002	.002	.000	.000	.002
CO-58	.000	.533	.533	.000	.000	.533
CO-60	.001	2,884.934	2,884.935	.000	.000	2,884.935
CS-134	.000	104.992	104.992	.000	.000	104.992
CS-137	.001	640.156	640.157	.000	.000	640.157
CS-139	.000	.001	.001	.000	.000	.001
FE-55	.000	401.813	401.813	.000	.000	401.813
FE-59	.000	.004	.004	.000	.000	.004
H-3	.000	281.680	281.680	.000	.000	281.680
I-129	.000	.822	.822	.000	.000	.822
KR-85	.000	27.400	27.400	.000	.000	27.400
MN-54	.000	2.530	2.530	.000	.000	2.530
NB-95	.000	.022	.022	.000	.000	.022
ND-144	.000	.040	.040	.000	.000	.040
NI-63	.000	36.706	36.706	.000	.000	36.706
NP-237	.000	.061	.061	.000	.000	.061
PU-238	.000	.067	.067	.000	.000	.067
PU-239	.000	.065	.065	.000	.000	.065
PU-240	.000	.063	.063	.000	.000	.063
PU-241	.000	.224	.224	.000	.000	.224
PU-242	.000	.063	.063	.000	.000	.063
SB-125	.000	.063	.063	.000	.000	.063
SR-89	.000	.140	.140	.000	.000	.140
SR-90	.000	4.113	4.113	.000	.000	4.113
TC-99	.000	2.316	2.316	.000	.000	2.316
TE-125M	.000	.013	.013	.000	.000	.013
U-234	.000	.040	.040	.000	.000	.040
U-235	.000	.170	.170	.000	.000	.170
U-238	.000	9.685	9.685	.000	.000	9.685
U-DEP	.000	37.236	37.236	.000	.000	37.236
U-NAT	.000	49.200	49.200	.000	.000	49.200
ZN-65	.000	206.646	206.646	.000	.000	206.646
ZR-95	.000	.010	.010	.000	.000	.010
Totals:	.002	4,770.474	4,770.476	.000	.000	4,770.476

Table C-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	R S Activity	C S Activity	Total Activity
Waste Description: 99 OTHER						
H-3	.000	38.862	38.862	.000	.000	38.862
KR-85	.000	63,500.100	63,500.100	.000	.000	63,500.100
Totals:	.000	63,538.962	63,538.962	.000	.000	63,538.962
GRAND TOTALS:	844.637	6,501,725.048	6,502,569.685	59,803,866.199	32,755,330.985	99,061,766.869

Table C-4. Beatty 1987 Isotopic Distribution (mCi) by Waste Stream

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 01 VIALS						
H-3	000	1,400,000	1,400,000	000	000	1,400,000
IR-192	000	20,000	20,000	000	000	20,000
TR-NAT	000	035	035	000	000	035
U-238	000	931,871	931,871	000	000	931,871
Totals:	000	2,351,906	2,351,906	000	000	2,351,906

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 02 TRVY SOLID						
AC-227	778	000	778	000	000	778
AG-105	000	511	511	000	000	511
AG-108M	000	724 680	724 680	000	000	724 680
AG-110M	000	398 749	398 749	000	000	398 749
AL-26	000	040	040	000	000	040
AM-241	1 778	102 691	104 469	117	000	104 586
AM-243	000	1 320	1 320	000	000	1 320
AU-195	000	110 210	110 210	000	000	110 210
BA-133	238	4 464	4 702	212	000	4 914
BA-140	000	5 103	5 103	000	000	5 103
BE-7	000	045	045	000	000	045
BI-207	000	1 059	1 059	000	000	1 059
C-14	13 990	22 463 623	22 477 613	000	250	22 477 863
CA-45	000	271 490	271 490	000	000	271 490
CA-47	000	028	028	000	000	028
CD-109	953	273 080	274 033	000	000	274 033
CE-139	000	008	008	000	000	008
CE-141	000	33 237	33 237	000	000	33 237
CE-144	016	287 737	287 753	000	000	287 753
CF-252	000	181	181	000	000	181
CL-32	000	204	204	000	000	204
CL-36	001	55 626	55 627	000	000	55 627
CM-241	000	002	002	000	000	002
CM-242	000	1 386	1 386	000	000	1 386
CM-243	000	1 502	1 502	000	000	1 502
CM-244	000	14 098	14 098	000	000	14 098
CO-56	000	702	702	000	000	702
CO-57	6 996	1 166 971	1 173 967	15 356	000	1 189 323
CO-58	000	14 161 892	14 161 892	000	000	14 161 892
CO-60	621 953	70 950 501	71 572 454	1 300 700 048	86 900 000	1 459 172 502
CR-51	000	4 239 422	4 239 422	000	000	4 239 422
CS-134	000	1 173 465	1 173 465	000	000	1 173 465
CS-137	1 141 069	10 649 645	11 790 714	52 521 179	54 525 000	118 836 893
CU-54	000	001	001	000	000	001
CU-67	000	176	176	000	000	176
EU-152	000	10 052	10 052	000	000	10 052
EU-154	000	668 497	668 497	000	000	668 497
EU-155	000	697 698	697 698	000	000	697 698
EU-157	000	001	001	000	000	001
FE-55	14 039	74 428 431	74 442 470	000	000	74 442 470
FE-57	000	007	007	000	000	007
FE-59	000	485 336	485 336	000	000	485 336
GA-67	000	7 199	7 199	000	000	7 199
GD-153	000	76 014	76 014	000	000	76 014
GF-68	000	12 533	12 533	000	000	12 533
H-3	583 300	651 805 560	652 388 860	7 013 301 953	825 000	7 666 515 813



Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
RF-175	.000	673	673	.000	.000	673
RG-203	.000	.020	.020	.000	.000	.020
HO-166	.000	.001	.001	.000	.000	.001
I-123	.000	.010	.010	.000	.000	.010
I-125	.002	33.078	33.078	.277	.000	33.078
I-125	.904	12.912	12.912	.001	.000	12.913
I-131	.001	1.047	1.047	.779	.000	1.047
IN-111	.000	10.896	10.896	.000	.000	10.896
IN-114	.000	1.365	1.365	.000	.000	1.365
IR-192	.000	1.221	1.221	.421	.000	1.221
KR-85	479	753	638	827	953	1,099
LA-140	.000	159	159	.074	.000	159
MN-54	.005	6.913	6.913	.000	.000	6.913
MO-99	.000	4.230	4.230	.534	.000	4.230
NA-20	.000	.010	.010	.000	.000	.010
NA-22	.000	.030	.030	.000	.000	.030
NR-94	13	730	707	339	.000	721
NR-94	.000	2.404	2.404	.000	.000	2.404
NR-95	.000	804	804	.671	.000	805
NI-59	.001	58	58	356	.000	58
NI-63	19	967	6,503	998	191	6,715
NE-237	.000	109	109	.000	.000	109
OS-191	.000	100	100	.000	.000	100
P-32	.000	6,619	6,619	.446	.000	6,619
P-33	.000	.254	.254	.000	.000	.254
PA-231	.004	.000	.004	.000	.000	.004
PB-203	.000	.390	.390	.000	.000	.390
PB-210	.006	.079	.085	.000	.000	.085
PM-147	.000	44	44	.075	.000	44
PO-210	.000	23	23	.038	.000	23
PT-193	.001	.000	.001	.000	.000	.001
PT-195M	.000	13	13	.073	.000	13
PU-238	.000	8	8	.795	.000	8
PU-239	.007	41	41	.808	.000	41
PU-240	.000	3	3	.234	.000	3
PU-241	.000	197	197	.471	.000	197
PU-242	.000	1	1	.827	.000	1
RA-226	1.247	1,574	2,621	599	.000	2,821
RB-86	.000	21	21	.040	.000	21
RU-103	.000	2	2	.931	.000	2
RU-106	.006	20	20	.580	.000	20
S-35	5.24	7,067	7,067	563	.000	7,068
SB-124	.000	156	156	.803	.000	156
SB-125	.616	61	61	.347	.000	61
SC-46	.000	56	56	.541	.000	56
SC-47	.000	1	1	.000	.000	1
SE-75	.000	48	48	.393	.000	48
SM-151	.000	1	1	.7	.000	1
SN-113	.000	21	21	.662	.000	21
SN-131	.000	.009	.009	.000	.000	.009

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
SR-85	000	3,915	62,915	000	000	62,915
SR-86	000	001	001	000	000	001
SR-89	000	97,115	87,115	000	000	87,115
SR-90	049	11,373	231,422	22,878	14,121	37,231
SR-91	000	55,108	55,108	000	000	55,108
TA-181	000	9,992	9,992	000	000	9,992
TA-182	000	12,737	12,737	000	000	12,737
TC-99	000	274,435	274,435	000	000	274,435
TC-99M	000	3,160	3,160	000	000	3,160
TE-123	000	28,749	28,749	000	000	28,749
TH-228	000	270	270	000	000	270
TH-230	000	001	001	000	000	001
TH-232	1	14,484	15,507	000	000	15,507
TH-NAT	000	65,895	65,895	000	000	65,895
TL-201	000	459,136	459,136	000	000	459,136
TL-204	001	1,715	1,715	000	000	1,715
U-233	000	4,984	4,984	000	000	4,984
U-234	000	1,105,601	1,105,601	000	000	1,105,601
U-235	000	58,664	58,664	000	000	58,664
U-236	000	9,764	9,764	000	000	9,764
U-238	3,513	106,470,955	106,474,568	128	000	106,474,696
U-239	000	143	143	000	000	143
U-DEP	000	126,036	126,036	000	000	126,036
U-NAT	000	200,701	200,701	000	000	200,701
W-188	000	006	006	000	000	006
XE-133	000	9,739	9,739	000	000	9,739
Y-88	000	109	109	000	000	109
Y-90	000	689	689	000	000	689
YB-189	000	2,416	2,416	000	000	2,416
ZM-65	000	308,119	308,119	000	000	308,119
ZR-95	000	370,231	370,231	000	000	370,231
Totals	4,151,163	1,029,094,828	1,033,245,991	8,390,081,024	156,371,250	9,579,698,265

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AG-110H	000	200	200	000	000	200
AM-241	003	686	689	000	000	689
C-14	6 572	76 478	83 050	000	000	83 050
CA-45	000	1 651	1 651	000	000	1 651
CL-36	000	378	378	000	000	378
CM-242	001	000	000	000	000	001
CM-243	002	000	002	000	000	002
CM-244	002	000	002	000	000	002
CO-57	003	32 519	32 522	000	000	32 522
CO-58	645 573	25 582 732	26 228 305	000	000	26 228 305
CO-60	199 621	141 822 652	142 022 273	000	000	142 022 273
CR-51	000	40 561 794	40 561 794	000	000	40 561 794
CS-134	41 400	2 453 584	2 494 984	000	000	2 494 984
CS-137	66 232	4 186 944	4 253 176	000	000	4 253 176
FE-55	264 664	266 094 528	266 359 192	000	000	266 359 192
FE-59	000	3 479 578	3 479 578	000	000	3 479 578
H-3	5 502 685	1 890 732	7 493 417	000	000	7 493 417
I-125	000	23 815	23 815	000	000	23 815
I-129	079	755	834	000	000	834
I-131	000	47 049	47 049	000	000	47 049
KR-85	000	1 000 000	1 000 000	000	000	1 000 000
MN-54	27 643	87 527 469	87 555 112	000	000	87 555 112
NA-22	000	096	096	000	000	096
NB-95	000	036	036	000	000	036
NI-59	017	000	037	000	000	037
NI-63	65 760	4 238 758	4 304 518	000	000	4 304 518
NP-237	001	000	001	000	000	001
P-32	000	67 157	67 157	000	000	67 157
PU-238	008	238	246	000	000	246
PU-239	002	1 305	1 307	000	000	1 307
PU-240	002	979	981	000	000	981
PU-241	043	22 787	22 830	000	000	22 830
PU-242	000	086	086	000	000	086
S-35	000	50 101	50 101	000	000	50 101
SB-124	760 300	5 549 309	6 309 609	000	000	6 309 609
SB-125	014	1 600	1 614	000	000	1 614
SE-75	000	001	001	000	000	001
SN-113	000	051	051	000	000	051
SR-90	051	23 015	23 066	000	000	23 066
TC-89	239	1 518	1 757	000	000	1 757
TH-NAT	000	435	435	000	000	435
U-234	000	713	713	000	000	713
U-235	001	036	037	000	000	037
U-236	000	007	007	000	000	007
U-238	000	1 130 390	1 130 390	000	000	1 130 390
ZN-65	000	9 319 766	9 319 766	000	000	9 319 766

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Zr-95	.000	.048	.048	.000	.000	.048
Totals:	7,680.938	595,191.976	802,872.914	.000	.000	602,872.914

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 04 BIOLOGICAL (NON-CARCASS WASTE)						
C-14	000	1.376	1.376	000	000	1.376
CA-45	000	.017	.017	000	000	.017
CD-109	000	.093	.093	000	000	.093
CE-141	000	458	458	000	000	458
CO-57	000	306	306	000	000	306
CR-51	000	490	490	000	000	490
H-3	000	1.145	1.145	000	000	1.145
I-125	000	.167	.167	000	000	.167
I-131	000	.003	.003	000	000	.003
PO-210	000	.006	.006	000	000	.006
S-35	000	439	439	000	000	439
SC-46	000	618	618	000	000	618
SR-85	000	.741	.741	000	000	.741
Totals:	000	5.859	5.859	000	000	5.859



C-90

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 07 FILTER MEDIA						
AG-110M	96.300	.000	96.300	4.000	.000	240.300
AM-241	.001	.000	.001	.015	.000	.016
BA-140	.000	.655	.655	.000	.000	.655
C-14	.114	.285	.399	.320	.000	1.419
CF-144	.000	.000	.000	.350	.000	1.350
CM-242	.006	.000	.006	.014	.000	.020
CM-244	.001	.000	.001	.016	.000	.017
CO-57	.000	.000	.000	.407	.000	.407
CO-58	889.000	49.596	938.596	973.000	.000	1,911.596
CO-60	18.400	80.175	98.575	103.000	.000	201.575
CR-51	230.000	375.780	605.780	131.000	.000	736.780
CS-134	12.300	6.748	19.048	545.000	.000	564.048
CS-137	27.800	.734	28.534	1,990.000	.000	2,018.534
FE-55	38.500	58.818	97.318	89.500	.000	186.818
FE-59	.000	14.903	14.903	.000	.000	14.903
H-3	.000	5.030	5.030	2.470	.000	7.500
I-129	.001	.008	.009	.033	.000	.042
I-131	.000	.613	.613	.000	.000	.613
MN-54	.000	66.195	66.195	4.400	.000	70.595
NB-95	127.000	2.163	129.163	146.000	.000	275.163
NI-63	18.100	7.710	25.810	173.000	.000	198.810
PO-238	.003	.000	.003	.031	.000	.034
PU-239	.003	.000	.003	.029	.000	.032
PU-241	.258	.000	.258	2.920	.000	3.178
SB-125	.000	.000	.000	27.800	.000	27.800
SR-90	.042	.002	.044	15.200	.000	15.244
TC-99	.001	.008	.009	.036	.000	.045
TE-125M	.000	.000	.000	6.740	.000	6.740
XE-133	.000	1.367	1.367	.000	.000	1.367
ZN-65	.000	9.518	9.518	.000	.000	9.518
ZR-95	74.700	.362	75.062	78.200	.000	153.262
Totals:	1,532.530	681.270	2,213.800	4,435.175	.000	6,648.975

Table C-4 (Continued)

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 08 DEMATERED RESINS						
C-14	.000	0.33	0.33	.000	.000	0.33
CE-144	.000	193.100	193.100	.000	.000	193.100
CO-58	.000	6.902	6.902	.000	.000	6.902
CO-60	.000	18.922	18.922	.000	.000	18.922
CS-134	.000	21.814	21.814	.000	.000	21.814
CS-137	.000	88.072	88.072	6.38	.000	88.072
FE-55	.000	11.279	11.279	.000	.000	11.279
H-3	.000	280.754	280.754	.000	.000	280.754
I-129	.000	.008	.008	.000	.000	.008
I-131	.000	.001	.001	.000	.000	.001
MN-54	.000	14.529	14.529	.000	.000	14.529
NI-63	.000	.075	.075	.000	.000	.075
SB-124	.000	238.200	238.200	.000	.000	238.200
SB-125	.000	13.400	13.400	.000	.000	13.400
TC-99	.000	.025	.025	.000	.000	.025
Totals:	.000	887.114	887.114	.000	.000	887.114

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 09 SOLIDIFIED RESINS						
AG-110M	658.038	1.844	659.882	1.515.000	0.000	2.174.882
BA-140	0.000	0.029	0.029	1.794	0.000	1.823
C-14	15.521	63.731	79.252	208.858	0.000	288.120
CF-144	0.000	0.055	0.055	0.000	0.000	0.055
CM-242	0.068	0.000	0.068	0.000	0.000	0.068
CO-57	0.000	0.300	0.300	0.000	0.000	0.300
CO-58	5.517.855	97.852.757	103.370.612	13.235.000	0.000	116.605.612
CO-60	87.792.288	50.618.551	138.410.839	66.220.000	0.000	204.630.839
CR-51	14.396.520	88.278.562	102.675.082	37.790.000	0.000	140.465.082
CS-134	1.420.060	1.667.429	3.087.489	14.144.000	0.000	17.231.489
CS-137	2.523.100	3.492.744	6.015.844	27.418.000	0.000	33.433.844
FE-55	122.712.271	46.880.655	169.592.926	7.806.000	0.000	177.398.926
FE-59	333.553	19.458.796	19.792.349	0.000	0.000	19.792.349
H-3	16.271	120.307	136.578	13.472	0.000	150.050
I-129	148	0.035	183	0.021	0.000	204
I-131	0.000	214.009	214.009	0.000	0.000	214.009
LA-140	0.000	0.019	0.019	1.794	0.000	1.813
MN-54	31.329.675	119.811.462	151.141.137	21.888.000	0.000	173.029.137
NE-95	0.000	2.696	2.696	0.000	0.000	2.696
NI-63	1.188.105	2.900.705	4.088.810	5.303.100	0.000	9.391.910
PU-241	5.969	7.700	13.669	1.021	0.000	14.690
SB-124	0.000	54.400	54.400	0.000	0.000	54.400
SB-125	10.300	438	10.738	0.000	0.000	10.738
SR-89	0.000	900	900	0.000	0.000	900
SR-90	5.670	2.145	7.815	19.785	0.000	27.600
TA-182	0.000	1.007	1.007	0.000	0.000	1.007
TC-99	234	0.089	323	0.039	0.000	362
ZN-65	2.424.979	5.427.660	7.852.639	0.000	0.000	7.852.639
ZR-95	0.000	3.259	3.259	0.000	0.000	3.259
Totals:	270.350.625	436.862.284	707.212.909	195.365.954	0.000	902.578.863

Table C-4 (Continued)

Isotope	A. S. Activity	A. U. Activity	A. Activity	B. S. Activity	C. S. Activity	Total Activity
Waste Description: 10 SOLID AQUEOUS LIQUID						
C-14	000	316.881	316.881	000	000	316.881
CA-45	000	4.368	4.368	000	000	4.368
CD-109	000	139	139	000	000	139
CL-36	000	961	961	000	000	961
CO-57	000	112.200	112.200	000	000	112.200
CO-60	000	5.190	5.190	000	000	5.190
CR-51	000	23.698	23.698	000	000	23.698
CS-134	000	300	300	000	000	300
CS-137	000	122.190	122.190	000	000	122.190
FE-59	000	021	021	000	000	021
H-3	000	344.015	344.015	000	000	344.015
HG-203	000	002	002	000	000	002
I-125	000	431.647	431.647	000	000	431.647
NA-22	000	1.713	1.713	000	000	1.713
P-32	000	209.532	209.532	000	000	209.532
RB-86	000	086	086	000	000	086
S-35	000	168.645	168.645	000	000	168.645
SE-75	000	190	190	000	000	190
SR-90	000	1.424	1.424	000	000	1.424
Totals:	000	1,743.202	1,743.202	000	000	1,743.202



Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 13 AQUEOUS LIQUIDS IN VIALS IN SOLVENT						
CO-57	.000	.011	.011	.000	.000	.011
I-125	.000	4.200	4.200	.000	.000	4.200
I-131	.000	1.800	1.800	.000	.000	1.800
Totals:	.000	5.011	6.011	.000	.000	6.011



Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 14 ANIMAL CARCASSES IN LIME AND SORBENT						
C-14	.000	62.513	62.513	.000	.000	62.513
CA-45	.000	37.007	37.007	.000	.000	37.007
CD-109	.000	.204	.204	.000	.000	.204
CE-141	.000	1.803	1.803	.000	.000	1.803
CL-36	.000	.020	.020	.000	.000	.020
CO-57	.000	1.264	1.264	.000	.000	1.264
CO-58	.000	.004	.004	.000	.000	.004
CR-51	.000	2.863	2.863	.000	.000	2.863
FE-59	.000	4.433	4.433	.000	.000	4.433
GD-153	.000	3.234	3.234	.000	.000	3.234
H-3	.000	472.265	472.265	.000	.000	472.265
HG-203	.000	1.149	1.149	.000	.000	1.149
I-125	.000	23.746	23.746	.000	.000	23.746
I-131	.000	1.850	1.850	.000	.000	1.850
IN-111	.000	.800	.800	.000	.000	.800
IN-114	.000	.590	.590	.000	.000	.590
MR-54	.000	.016	.016	.000	.000	.016
NA-22	.000	.099	.099	.000	.000	.099
NR-95	.000	2.620	2.620	.000	.000	2.620
P-32	.000	4.673	4.673	.000	.000	4.673
PO-210	.000	.009	.009	.000	.000	.009
RB-86	.000	.090	.090	.000	.000	.090
RU-103	.000	2.712	2.712	.000	.000	2.712
S-35	.000	86.074	86.074	.000	.000	86.074
SC-46	.000	3.531	3.531	.000	.000	3.531
SE-75	.000	.313	.313	.000	.000	.313
SR-113	.000	4.029	4.029	.000	.000	4.029
SR-85	.000	.528	.528	.000	.000	.528
TC-99	.000	145	145	.000	.000	145
TC-99M	.000	120	120	.000	.000	120
XE-133	.000	75.000	75.000	.000	.000	75.000
ZN-65	.000	.319	.319	.000	.000	.319
Totals:	.000	793.083	793.083	.000	.000	793.083

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 15 CAS						
ER-85	.000	4.051	4.051	.000	.000	4.051
Totals:	.000	4.051	4.051	.000	.000	4.051

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
AG-110M	000	593	593	000	000	593
AM-241	000	999	999	000	000	999
AU-195	000	047	047	000	000	047
BA-133	000	001	001	000	000	001
BA-140	000	007	007	000	000	007
C-14	000	410 277	410 277	000	000	410 277
CA-45	000	2 014	2 014	000	000	2 014
CD-109	000	014	014	000	000	014
CF-141	000	017	017	000	000	017
CE-144	000	422	422	000	000	422
CL-36	000	3 957	3 957	000	000	3 957
CO-57	000	136	136	000	000	136
CO-58	000	23 510	23 510	000	000	23 510
CO-60	000	077	077	000	000	077
CR-51	000	1 099	1 099	000	000	1 099
CS-134	000	9 673	9 673	000	000	9 673
CS-137	000	097	097	000	000	097
FU-152	000	964	964	000	000	964
FE-55	000	020	020	000	000	020
FE-59	000	1 386 189	1 386 189	000	000	1 386 189
H-3	000	10 807	10 807	000	000	10 807
I-125	000	203	203	000	000	203
IR-192	000	355	355	000	000	355
MN-54	000	24 829	24 829	000	000	24 829
NA-22	000	016	016	000	000	016
NB-84	000	005	005	000	000	005
NB-95	000	100 587	100 587	000	000	100 587
NI-63	000	003	003	000	000	003
PO-210	000	009	009	000	000	009
FU-238	000	1 051	1 051	000	000	1 051
RA-226	000	413	413	000	000	413
RB-86	000	963	963	000	000	963
RU-106	000	15 113	15 113	000	000	15 113
S-35	000	068	068	000	000	068
SB-124	000	1 027	1 027	000	000	1 027
SR-125	000	461	461	000	000	461
SE-75	000	292	292	000	000	292
SM-113	000	226	226	000	000	226
SR-90	000	2 333	2 333	000	000	2 333
TC-99	000	001	001	000	000	001
TH-228	000	010	010	000	000	010
TH-230	000	021	021	000	000	021
TH-232	000	117	117	000	000	117
TI-204	000	12 357	12 357	000	000	12 357
U-238	000	1 572	1 572	000	000	1 572
ZN-65	000			000	000	

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
ZR-95	.000	.003	.003	.000	.000	.003
Totals:	.000	2,012.960	2,012.960	.000	.000	2,012.960

Table C-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 99 OTHER						
C-14	.000	.488	.488	.000	.000	.488
CD-109	.000	.009	.009	.000	.000	.009
CO-58	.000	2.587	2.587	.000	.000	2.587
CO-60	.000	17.072	17.072	.000	.000	17.072
CS-134	.000	15.417	15.417	.000	.000	15.417
CS-137	.000	48.856	48.856	.000	.000	48.856
FE-55	.000	21.040	21.040	.000	.000	21.040
H-3	.000	.987	.987	.000	.000	.987
I-129	.000	.088	.088	.000	.000	.088
I-131	.000	6.039	6.039	.000	.000	6.039
MN-54	.000	6.692	6.692	.000	.000	6.692
NI-63	.000	4.792	4.792	.000	.000	4.792
RA-226	.000	1.114 376	1.114 376	.000	.000	1.114 376
TC-99	.000	.088	.088	.000	.000	.088
Totals:	.000	1.238 631	1.238 631	.000	.000	1.238 631
GRAND TOTALS:	283,715,256	2,070,873,175	2,354,588,431	8,589,882,153	156,371,250	11,100,841,834



Table C-5. Beatty 1988 Isotopic Distribution (mCi) by Waste Stream

Animal Carcasses in Lime and Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	22.667				22.667
Ca-45	4.413				4.413
Cd-109	0.111				0.111
Ce-141	2.496				2.496
Cl-36	0.002				0.002
Co-57	0.076				0.076
Co-60	0.100				0.100
Cr-51	3.109				3.109
Fe-59	8.300				8.300
Gd-153	1.612				1.612
H-3	170.848				170.848
I-125	9.050				9.050
I-131	1.807				1.807
In-114	0.779				0.779
Na-22	0.057				0.057
Nb-95	1.124				1.124
P-32	67.422				67.422
Ru-103	0.704				0.704
S-35	14.753				14.753
Sc-46	4.081				4.081
Se-75	0.329				0.329
Sn-113	2.017				2.017
Sr-85	2.776				2.776
Zn-65	0.109				0.109
Total	318.742				318.742

Aqueous Liquids in Vials in Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	62.003				62.003
Co-60	0.005				0.005
Cs-137	0.005				0.005
H-3	7.000				7.000
I-125	9.227				9.227
Na-22	0.010				0.010
Sr-89	0.005				0.005
Sr-90	0.005				0.005

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Th-232	0.001				0.001
Total	78.261				78.261

Biological (Non-Carcass Waste)

Nuclide	Class AU	Class AS	Class B	Class C	Total
C-14	1.412				1.412
Cd-109	0.029				0.029
H-3	4,578.081				4,578.081
Po-210	0.003				0.003
Total	4,579.525				4,579.525

Cartridge-Type Filter Media

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	0.015				0.015
C-14	0.017				0.017
Co-60	0.008				0.008
Cs-134	18.829				18.829
Cs-137	21.566				21.566
Fe-55	13.657				13.657
H-3	102.590				102.590
I-129	0.094				0.094
Mn-54	0.013				0.013
Ni-63	0.099				0.099
Ru-106	0.001				0.001
S-35	0.148				0.148
Tc-99	0.223				0.223
Zn-65	0.001				0.001
Total	157.261				157.261

Compacted Dry Active Waste

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	17.336				17.336
Ag-110m	15.499				15.499
Am-241	191.125				191.125

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
As-73	0.003				0.003
Au-195	0.056				0.056
Ba-133	2.227				2.227
Be-7	1.710				1.710
Bi-205	0.009				0.009
Bi-207	0.269				0.269
C-14	4,953.671	0.133			4,953.804
Ca-45	69.401				69.401
Cd-109	21.473				21.473
Ce-141	1.786				1.786
Ce-144	20.919				20.919
Cl-36	9.929				9.929
Cm-241	0.077				0.077
Cm-242	84.293	0.004			84.297
Cm-243	0.078				0.078
Co-57	1,590.226				1,590.226
Co-58	944.156	2.763			946.919
Co-60	1,825.509	248.800		197,000.000	199,074.309
Cr-51	1,997.174				1,997.174
Cs-134	2,703.612	2.091			2,705.703
Cs-136	23.652				23.652
Cs-137	4,356.820	6.702		19,700.000	24,063.522
Dy-159	0.002				0.002
Eu-152	0.475				0.475
Eu-154	0.222				0.222
Eu-155	0.022				0.022
Fe-55	4,605.527	245.400			4,850.927
Fe-59	79.342				79.342
Ga-67	8.172				8.172
Gd-153	7.443				7.443
Ge-68	3.867				3.867
H-3	56,176.888	0.363			56,177.251
Hf-181	0.068				0.068
Hg-203	0.005				0.005
I-121	1.478				1.478
I-124	0.001				0.001
I-125	26,206.098				26,206.098
I-129	11.999				11.999
I-131	344.292				344.292
In-111	14.319				14.319
In-113	0.125				0.125
Ir-192	161.129				161.129
K-40	0.044				0.044
Mn-54	355.675	18.650			374.325
Mo-93	0.001				0.001
Na-22	28.098				28.098
Na-24	1.100				1.100

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Nb-94	0.700				0.700
Nb-95	190.057				190.057
Nd-147	0.001				0.001
Ni-63	731.383	36.070			767.453
P-32	7,141.022				7,141.022
Pb-210	0.156				0.156
Pm-147	0.010				0.010
Po-210	1.580				1.580
Pt-195	5.000				5.000
Pu-238	9.960				9.960
Pu-239	0.048				0.048
Pu-240	0.022				0.022
Pu-241	167.586	0.034			167.620
Ra-226	0.045				0.045
Rb-86	7.126				7.126
Ru-103	3.871				3.871
Ru-106	0.048				0.048
S-35	4,891.232				4,891.232
Sb-122	0.019				0.019
Sb-124	0.675				0.675
Sb-125	9.300	5.962			15.262
Sc-46	3.718				3.718
Sc-47	3.000				3.000
Se-75	7.736				7.736
Sm-151	0.003				0.003
Sn-113	5.531				5.531
Sn-119m	0.001				0.001
Sr-85	2.590				2.590
Sr-89	2.736				2.736
Sr-90	52.387	0.005		12,800.000	12,852.392
Ta-179	0.002				0.002
Ta-182	0.048				0.048
Tb-157	0.010				0.010
Tb-158	0.010				0.010
Tc-99	118.198	0.007			118.205
Te-123	0.748				0.748
Te-125m	0.219				0.219
Te-129m	0.003				0.003
Th-228	0.160				0.160
Th-230	0.001				0.001
Th-232	13.336				13.336
Tl-201	3.419				3.419
Tl-204	1.000				1.000
Tm-171	0.020				0.020
U-233	0.001				0.001
U-235	0.080			1.000	1.080
U-238	614.846			1.000	615.846

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
W-178	6.792				6.792
Xe-127	0.027				0.027
Y-88	19.826				19.826
Y-90	9.481				9.481
Zn-65	73.672				73.672
Zr-95	87.679				87.679
Zr-97	0.021				0.021
Total	121,024.544	566.984		229,502.000	351,093.528

Dewatered Resins

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	4.015				4.015
Am-241	0.003				0.003
C-14	2.006				2.006
Ce-141	29.100				29.100
Ce-144	663.000				663.000
Cm-242	6.413				6.413
Cm-243	0.003				0.003
Cm-244	0.003				0.003
Co-58	1,451.655				1,451.655
Co-60	3,754.129				3,754.129
Cs-134	636.130				636.130
Cs-137	938.681				938.681
Fe-55	580.876				580.876
H-3	607.780				607.780
I-129	3.870				3.870
I-131	7.460				7.460
Mn-54	164.792				164.792
Nb-95	19.500				19.500
Ni-63	81.242				81.242
Pu-238	0.003				0.003
Pu-239	0.003				0.003
Pu-240	0.003				0.003
Pu-241	8.773				8.773
Sb-124	5,719.738				5,719.738
Sb-125	174.799				174.799
Sr-90	8.944				8.944
Tc-99	7.222				7.222
Total	14,870.143				14,870.143



Table C-5 (Continued)

## Dry Solid

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ac-227	1.937				1.937
Ag-110	0.002				0.002
Ag-110m	4.120	1.000			5.120
Am-241	25.664	9.355	0.020	30.381	65.420
As-73	0.050				0.050
Au-195	0.012				0.012
Ba-133	4.161	0.300	0.008	0.003	4.472
Ba-140	0.149				0.149
Bi-207	0.002				0.002
Bi-210	0.103				0.103
C-14	604.773	2.272	0.050		607.095
Ca-45	27.804	1.122			28.926
Cd-109	2.833	12.350	0.001		15.184
Ce-141	0.597	0.001			0.598
Ce-144	0.010		0.001		0.011
Cf-252			0.042		0.042
Cl-36	2.162				2.162
Cm-244				27.401	27.401
Co-57	247.196	0.683	1.078		248.957
Co-58	1,101.230				1,101.230
Co-60	33,389.889	43.569	118,010.710	0.025	151,444.193
Cr-51	23.513				23.513
Cs-134	2.688				2.688
Cs-136	0.343				0.343
Cs-137	3,941.493	229.466	74,207.473	2,320,750.006	2,399,128.438
Eu-154	0.002				0.002
Fe-55	588.757	0.001	0.518		589.276
Fe-59	18.952				18.952
Ga-67	0.304				0.304
Gd-153	144.919				144.919
H-3	17,582.232	1,158.421	2,064,953.519		2,083,694.172
I-123	4.089				4.089
I-125	1,367.610	0.721			1,368.331
I-129	0.009				0.009
I-131	22.013				22.013
In-111	2.003				2.003
Ir-192	742.871	2.406			745.277
Kr-85	180.227				180.227
Mn-54	89.605	0.001	0.001		89.607
Mo-99	0.171				0.171
Na-22	9.487	0.084	0.001		9.572
Na-24	0.001				0.001
Nb-94	0.043				0.043
Nb-95	2.415				2.415
Ni-59	0.182				0.182
Ni-63	576.997	24.954	28.112		630.063

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
P-32	264.206				264.206
Pa-234	0.002				0.002
Pb-210	0.667	0.010	0.002		0.679
Pm-147	502.413	11.152			513.565
Po-210	2.363	9.992			12.355
Pr-147	0.001				0.001
Pu-238	7.079			60.000	67.079
Pu-239	41.413				41.413
Pu-240	20.424				20.424
Pu-241	677.902				677.902
Pu-242	0.334				0.334
Ra-226	5,378.269	907.061	67.171	994.146	7,346.647
Ra-228	0.294				0.294
Rb-86	3.950				3.950
Ru-103	0.255				0.255
Ru-106	0.251		0.001		0.252
S-35	361.850	1.472			363.322
Sb-124	0.817				0.817
Sb-125	0.004				0.004
Sc-46	3.076				3.076
Sm-151	0.001				0.001
Sn-111	0.146				0.146
Sn-113	3.418		0.001		3.419
Sr-85	4.976				4.976
Sr-89	0.093				0.093
Sr-90	184.793		6,537.742		6,722.535
Ta-182	4.398				4.398
Tc-99	0.739				0.739
Tc-99m	6.108				6.108
Te-123	3.500				3.500
Th-228	0.008	0.001	0.020		0.029
Th-230	1.142	0.004			1.146
Th-232	13.134	1.194	1.078		15.406
Th-235	0.025				0.025
Th-NAT	0.500				0.500
Tl-201	0.009	0.007			0.016
Tl-204	0.134	0.760	0.010		0.904
U-232	0.001				0.001
U-234	16.852				16.852
U-235	0.998	0.001			0.999
U-236	0.023				0.023
U-238	11,601.611	9.961		1.358	11,612.930
U-NAT	48.070		1.606		49.676
Y-90			0.001		0.001
Zn-65	1.551		0.011		1.562
Zr-95	2.012				2.012
Total	79,873.432	2,428.321	2,263,809.177	2,321,863.320	4,667,974.250

Table C-5 (Continued)

Evaporator Bottoms

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	41.577				41.577
C-14	60.685				60.685
Co-58	1,720.364				1,720.364
Co-60	220,188.116				220,188.116
Cr-51	18,530.098				18,530.098
Cs-134	394.599				394.599
CS-137	1,215.133				1,215.133
Fe-55	509,742.305				509,742.305
H-3	487.443				487.443
I-129	0.709				0.709
Mn-54	66,016.085				66,016.085
Nb-95	27.808				27.808
Ni-63	2,298.198				2,298.198
Sb-124	1,461.937				1,461.937
Sb-125	91.518				91.518
Tc-99	0.857				0.857
U-238	1,319.140				1,319.140
Zn-65	7,345.566				7,345.566
Total	830,942.138				830,942.138

Gas

Nuclide	Class AU	Class AS	Class B	Class C	Total
Am-241			0.006		0.006
H-3	200.000		1,149,000.000		1,149,200.000
Kr-85	65,026.592		15.000		65,041.592
Ra-226	0.600		0.014		0.614
Total	65,227.192		1,149,015.020		1,214,242.212

Non-Cartridge Filter Media

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	0.029				0.029
C-14	1.076	4.468			5.544
Co-58	1,244.639	5,882.452			7,127.091
Co-60	21,218.347	89,707.453			110,925.800
Cr-51	3,677.361	55,701.014			59,378.375
Cs-134	9.158				9.158
Cs-137	60.899	61.753			122.652

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Fe-55	47,687.088	201,586.913			249,274.001
Fe-59	293.258				293.258
H-3	1,372.886	178.761			1,551.647
I-129	0.054	0.003			0.057
I-131	0.997				0.997
Mn-54	12,120.104	24,533.981			36,654.085
Nb-95	2.282				2.282
Ni-63	31.890				31.890
P-32	1,275.604	5,517.935			6,793.539
Pu-241	1.329				1.329
Ru-103	0.167				0.167
Ru-106	0.007				0.007
S-35	0.206				0.206
Sb-125	0.219				0.219
Sr-90	0.111				0.111
Tc-99	0.096	0.093			0.189
Zn-65	414.381	2,408.569			2,822.950
Zr-95	0.804				0.804
Total	89,412.992	385,583.395			474,996.387

Non-Compacted Dry Active Waste

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110	3.150				3.150
Am-241	0.080				0.080
Au-195			0.003		0.003
Ba-133	0.001		0.958		0.959
C-14	43.753				43.753
Cd-109	0.104				0.104
Cm-242	0.077				0.077
Cm-244	0.045				0.045
Co-57	7.590		0.367		7.957
Co-58	641.631				641.631
Co-60	874.391		0.006		874.397
Cs-134	812.070				812.070
Cs-137	1,784.940		1,123.120		2,908.060
Eu-152			0.001		0.001
Fe-55	1,318.907				1,318.907
Gd-153			3.000		3.000
H-3	2,771.714		155.500		2,927.214
I-125			0.002		0.002
I-129	6.771		0.001		6.772
I-131	150.426				150.426
Mn-54	151.967				151.967
Ni-63	242.911		8.000		250.911

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Pm-147	0.001				0.001
Po-210	0.100				0.100
Pu-238	0.099				0.099
Pu-239	0.067				0.067
Pu-241	12.590				12.590
Ra-226	0.276				0.276
Sr-90	4.677		83.900		88.577
Tc-99	4.434				4.434
Th-NAT	0.221				0.221
Tl-204	0.001				0.001
U-234	0.301				0.301
U-235	0.021				0.021
U-238	14.777				14.777
U-DEP	1.281				1.281
Zn-65	6.930				6.930
Total	8,856.304		1,374.858		10,231.162

Other

Nuclide	Class AU	Class AS	Class B	Class C	Total
Co-60	1,776.000				1,776.000
Cs-137	8.880		30.000		38.880
H-3	5,972.386				5,972.386
Kr-85	150.810				150.810
Ra-226	4,612.500				4,612.500
Sr-90	5.800		50.000		55.800
Total	12,526.376		80.000		12,606.376

Solidified Liquids

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	8.228				8.228
Am-241	1.928				1.928
Ba-133	0.001				0.001
C-14	1.149	0.475		1,650.000	1,651.624
Ce-144	0.001				0.001
Co-57	0.001				0.001
Co-58	202.121	6.580			208.701
Co-60	46,242.204	9.340			46,251.544
Cr-51	3,907.647				3,907.647



Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cs-134		2.320			2.320
Cs-137	138.080	4.060			142.140
Fe-55	107,225.725	12.500			107,238.225
H-3	8.998	2.810			11.808
I-129	0.168	0.001			0.169
Mn-54	13,879.773	2.480			13,882.253
Ni-63	446.921	1.510			448.431
Pu-238	0.598				0.598
Pu-239	3.530				3.530
Pu-240	1.749				1.749
Pu-241	57.863				57.863
Pu-242	0.008				0.008
Ra-226	0.600				0.600
Sb-124	0.072	20.100			20.172
Sb-125		1.040			1.040
Sr-90	15.303				15.303
Tc-99	0.200	0.001			0.201
Zn-65	1,561.015				1,561.015
Total	173,703.883	63.217		1,650.000	175,417.100

Solidified Oil

Nuclide	Class AU	Class AS	Class B	Class C	Total
Am-241	0.001				0.001
C-14	0.182				0.182
Cm-242	0.002				0.002
Cm-244	0.001				0.001
Co-57	0.074				0.074
Co-58	6.118				6.118
Co-60	10.618				10.618
Cs-134	6.725				6.725
Cs-137	51.497				51.497
Fe-55	2.135				2.135
I-129	0.121				0.121
Kr-85	1,600.100				1,600.100
Mn-54	0.148				0.148
Ni-63	0.112				0.112
Pu-238	0.002				0.002
Pu-239	0.002				0.002
Pu-241	0.171				0.171
Sr-90	7.172				7.172
Tc-99	0.222				0.222

Table C-5 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
U-235	23.860				23.860
Total	1,709.263				1,709.263

## Solidified Resins

Nuclide	Class AU	Class AS	Class B	Class C	Total
Am-241	0.001				0.001
C-14	68.614	10.654	50.800		130.068
Cm-242	0.001	0.015			0.016
Cm-243	0.001				0.001
Cm-244	0.001				0.001
Co-57		5,859.942			5,859.942
Co-58	11,921.876	8,708.885	20,300.000		40,930.761
Co-60	23,472.465	139,184.895	6,778.000		169,435.360
Cr-51	11,834.272	123,564.298			135,398.570
Cs-134	3,020.200	117.810	43,360.000		46,498.010
Cs-137	5,609.472	477.576	82,890.000		88,977.048
Fe-55	52,920.506	310,263.280	5,416.000		368,599.786
Fe-59	10.681	231.577			242.258
H-3	216.605	260.972	34.690		512.267
I-129	0.027	0.024	0.001		0.052
I-131	592.280				592.280
Mn-54	6,665.758	37,160.808	5,647.000		49,473.566
Nb-95	0.001				0.001
Ni-63	439.912	171.189	10,800.000		11,411.101
P-32	1,382.126	7,951.107			9,333.233
Pu-238	0.001				0.001
Pu-239	0.001				0.001
Pu-240	0.001				0.001
Pu-241	0.001	0.903			0.904
Sb-124	0.001				0.001
Sr-90	0.001	2.323			2.324
Tc-99	0.648	0.221	0.001		0.870
Th-NAT	0.033				0.033
U-234	0.079				0.079
U-235	0.004				0.004
U-236	0.003				0.003
U-238	0.016				0.016
U-DEP	2.211				2.211
Zn-65	2.670	2,466.566			2,469.236
Zr-95	0.001				0.001
Total	118,160.470	636,433.045	175,276.492		929,870.007

Table C-5 (Continued)

Sorbed Aqueous Liquid

Nuclide	Class AU	Class AS	Class B	Class C	Total
C-14	58.708				58.708
Ca-45	23.727				23.727
Cl-36	1.234				1.234
Co-57	25.016				25.016
Co-60	165.036				165.036
Cr-51	50.390				50.390
Cs-134	1.310				1.310
Cs-137	118.541				118.541
Fe-55	0.892				0.892
Fe-59	0.001				0.001
H-3	411.774				411.774
I-125	763.185				763.185
I-129	0.006				0.006
Na-22	0.200				0.200
Ni-63	0.300				0.300
P-32	203.059				203.059
Rb-86	1.305				1.305
S-35	101.588				101.588
Sr-90	62.429				62.429
Tc-99	0.016				0.016
U-NAT	0.001				0.001
Total	1,988.718				1,988.718

Sorbed Non-Aqueous Liquid

Nuclide	Class AU	Class AS	Class B	Class C	Total
Am-241	0.001				0.001
C-14	76.590				76.590
Cm-244	0.003				0.003
Co-60	0.033				0.033
Fe-55	0.315				0.315
H-3	101.910				101.910
Ni-63	0.614				0.614
Pu-241	0.246				0.246
Total	179.712				179.712

Table C-6. Beatty 1989 Isotopic Distribution (mCi) by Waste Stream

Activated Reactor Hardware

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14				.518	.518
Cm-244				.002	.002
Co-60				247,700.000	247,700.000
Cs-134				1.250	1.250
Cs-137				6.610	6.610
Fe-55				439,000.000	439,000.000
H-3				89,600.000	89,600.000
I-129				.002	.002
Mn-54				2,279.000	2,279.000
Nb-94				.002	.002
Ni-59				2,408.000	2,408.000
Ni-63				298,000.000	298,000.000
Pu-238				.024	.024
Pu-239				.002	.002
Pu-240				.002	.002
Pu-241				.060	.060
Sr-90				.492	.492
Tc-99				.002	.002
Total				1,078,995.966	1,078,995.966

Animal Carcasses in Lime and Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	283.491				283.491
Ca-45	29.246				29.246
Cd-109	.644				.644
Ce-141	5.873				5.873
Co-57	4.199				4.199
Cr-51	9.302				9.302
Fe-59	8.841				8.841
Gd-153	2.339				2.339
H-3	1,194.596				1,194.596
I-125	145.429				145.429
I-131	2.040				2.040
In-111	.600				.600
In-114	.590				.590
Mn-54	.885				.885

Table C-6 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Na-22	.332				.332
Nb-95	4.178				4.178
P-32	2.128				2.128
Po-210	.002				.002
Rb-86	5.543				5.543
Ru-103	2.455				2.455
S-35	81.610				81.610
Sc-46	11.217				11.217
Se-75	.226				.226
Sn-113	4.467				4.467
Sr-85	6.912				6.912
Tc-99	1.100				1.100
Tc-99m	4.470				4.470
Zn-65	.260				.260
Total	1,812.975				1,812.975

Aqueous Liquids in Vials in Solvent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
H-3	3.000				3.000
I-125	120.250				120.250
Total	123.250				123.250

Biological (Non-Carcass Waste)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	2.788				2.788
Cd-109	.046				.046
Co-57	.214				.214
H-3	323.909				323.909
Hg-203	.003				.003
Po-210	.004				.004
Total	326.964				326.964



Table C-6 (Continued)  
Cartridge-Type Filter Media

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	64.173				64.173
Ag-110m	.493				.493
Ba-140	.496				.496
C-14	.134				.134
Ce-141	.295				.295
Ce-144	2.930				2.930
Cm-242	.104				.104
Co-57	.504				.504
Co-58	489.549				489.549
Co-60	35,451.577				35,451.577
Cr-51	310.879				310.879
Cs-134	3.100				3.100
Cs-137	2.350				2.350
Fe-55	5,776.195				5,776.195
Fe-59	118.331				118.331
H-3	507.876				507.876
I-129	.125				.125
I-131	156.232				156.232
Mn-54	27.799				27.799
Nb-95	103.703				103.703
Ni-63	602.235				602.235
Pu-241	.988				.988
Ru-103	19.674				19.674
Sb-124	.847				.847
Sb-125	232.440				232.440
Sr-89	7.480				7.480
Sr-90	.999				.999
Tc-99	.121				.121
Zn-65	544.370				544.370
Zr-95	112.792				112.792
Total	44,538.791				44,538.791

Compacted Dry Active Waste

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	.004				.004
Ag-110m	62.603				62.603
Am-241	41.655	.001			41.656
Au-195	.007				.007
Au-198	.001				.001
Ba-133	5.020				5.020
Be-7	.020				.020

Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Bi-207	.008				.008
C-14	6,429.295				6,429.295
Ca-45	130.559				130.559
Cd-109	4.953				4.953
Ce-141	5.866	.015			5.881
Ce-144	46.747				46.747
Cf-252	.202				.202
Cl-36	14.382				14.382
Cm-242	2.650				2.650
Cm-243	.003				.003
Cm-244	.003				.003
Co-56	.010				.010
Co-57	1,271.641	2.508			1,274.149
Co-58	479.254				479.254
Co-60	3,182.862				3,182.862
Cr-51	2,122.537				2,122.537
Cs-134	732.060				732.060
Cs-136	.004				.004
Cs-137	2,282.179	.004			2,282.183
Cu-67	.137				.137
Eu-152	.119				.119
Eu-154	.011				.011
Fe-55	10,085.575				10,085.575
Fe-59	278.523				278.523
Ga-67	7.262				7.262
Gd-153	99.786				99.786
Ge-68	12.807				12.807
H-3	267,896.826	5,717.009			273,613.835
Hf-181	.030				.030
Hg-203	.062				.062
I-124	30.770				30.770
I-125	20,178.181	.020			20,178.201
I-129	9.023				9.023
I-131	214.358				214.358
In-111	106.614	.015			106.629
Ir-192	618.623				618.623
Mn-54	1,076.020				1,076.020
Mo-99	.001				.001
Na-22	61.091				61.091
Na-24	1.000				1.000
Nb-93m	32.030				32.030
Nb-94	44.098				44.098
Nb-95	100.986	.015			101.001
Ni-59	.052				.052
Ni-61	.360				.360
Ni-63	2,298.482				2,298.482
Np-237	.020				.020

Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
P-32	7,588.564				7,588.564
Pa-233	.001				.001
Pb-210	.004				.004
Pm-147	1.018				1.018
Po-208	.003				.003
Po-210	2.318				2.318
Pu-238	1.750				1.750
Pu-239	2.301				2.301
Pu-241	.253				.253
Ra-226	960.762	.040			960.802
Rb-83	.001				.001
Rb-86	29.672				29.672
Ru-103	3.106	.015			3.121
Ru-106	.042				.042
S-35	5,448.574	2.505			5,451.079
Sb-124	95.796				95.796
Sb-125	34.796				34.796
Sc-46	2.690	.015			2.705
Se-75	7.545				7.545
Sm-151	13.800				13.800
Sn-113	2.187	.015			2.202
Sn-125	.026				.026
Sr-85	6.896	.015			6.911
Sb-89	1.173				1.173
Sr-90	10.768				10.768
Ta-182	.801				.801
Tb-160	.003				.003
Tc-99	207.105				207.105
Tc-99m	12.207				12.207
Te-123m	.027				.027
Th-230	.282	.010			.292
Th-232	706.399	.548			706.947
Tl-201	14.368				14.368
Tl-204	3.503				3.503
U-233	23.890				23.890
U-235	.038				.038
U-238	19.146	.937			20.083
V-48	.010				.010
W-185	.065				.065
Xe-133	.006				.006
Y-88	.010				.010
Y-90	10.661				10.661
Yb-169	.007				.007
Zn-65	68.699				68.699
Zr-95	50.958				50.958
Total	335,299.603	5,723.687			341,023.290

Table C-6 (Continued)

Dewatered Resins

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110m	.018				.018
C-14	.043				.043
Ce-141	.003				.003
Ce-144	.014				.014
Co-57	59.229				59.229
Co-58	4,442.575				4,442.575
Co-60	28,614.255				28,614.255
Cr-51	1,671.109				1,671.109
Cs-134	.405				.405
Cs-137	28.872				28.872
Fe-55	31,899.553				31,899.553
Fe-59	1,332.674				1,332.674
H-3	3.604				3.604
I-129	.001				.001
Mn-54	5,840.356				5,840.356
Nb-95	.100				.100
Ni-63	360.279				360.279
Sb-124	.653				.653
Sr-90	8.740				8.740
Tc-99	.023				.023
Zn-65	486.525				486.525
Zr-95	.072				.072
Total	74,749.103				74,749.103

Dry Solid

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ac-227	.374				.374
Ag-110	1.001				1.001
Ag-110m	83.817	.020			83.837
Am-241	18.404	1.162	2.026	3,888.958	3,910.550
Au-195	49.155				49.155
Au-198	.001				.001
Ba-133	43.106	.003	.015		43.124
Ba-137	.010				.010
Ba-137m	.001				.001
Bi-207	.010				.010
Bi-210	.306				.306
Bi-214	.001				.001
Br-85	.010				.010
C-14	2,661.539	.200	.012	6,503.792	9,165.543
Ca-45	18.686				18.686

Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cd-109	129.612		.001		129.613
Cd-115	.001				.001
Ce-139	.001				.001
Ce-141	.256	.024			.280
Ce-144	.001	.091			.092
Cf-252	.035		.040		.075
Cl-36	3.592	.006			3.598
Cm-244	.002				.002
Co-57	873.725		.144	3.866	877.735
Co-58	.716	.015			.731
Co-60	149,562.147	5.290	10,601,278.774	41.200	10,750,887.411
Cr-51	82.683		.001		82.684
Cs-134	61.763				61.763
Cs-137	9,224.723	110.060	197,002.052	2,774,145.201	2,980,483.036
Cu-67	.010				.010
Eu-152	.028	.038			.066
Eu-154	2.557				2.557
Eu-155	.477				.477
Fe-55	57.282		.008		57.290
Fe-59	1.261				1.261
Ga-67	2.696				2.696
Gd-148		.001			.001
Gd-153	315.998	142.000	.009		458.007
H-3	112,177.797	5.376	22,606,893.055	15,269.637	22,734,345.865
Hg-203	.004		.015		.019
I-123	2.126				2.126
I-125	6,285.149	97.073	1.970		6,384.192
I-129	.108		.001		.109
I-131	52.339				52.339
In-111	.302	.023			.325
In-113	.010				.010
In-114	.122				.122
In-114m	.554				.554
Ir-192	19,007.403	3.000			19,010.403
Kr-85	35,045.671	60.000	1,000.000		36,105.671
Mn-54	21.923	.021	.020		21.964
Mo-99	2.126				2.126
Na-22	6.529	.300	.016		6.845
Nb-95	.153	.027			.180
Ni-63	792.265	2.000	75.352	4.677	874.294
Ni-65	10.000				10.000
P-32	1,453.287				1,453.287
Pa-231	.014				.014
Pa-234	.001				.001
Pb-210	.035	630.000	.001		630.036
Pm-147	1,340.358	.086	11.482		1,351.926
Po-210	550.267	.312			550.579



Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Pt-193				.002	.002
Pu-238	1.644			60.000	61.644
Pu-239	9.520	1.225			10.745
Pu-240	4.740				4.740
Pu-241	154.773				154.773
Pu-242	.314				.314
Ra-225	265.000				265.000
Ra-226	12,537.189	6.021.003	86.880	16.667	18,661.739
Ra-228	.162				.162
Rb-86	1.349				1.349
Ru-103	.055	.001			.056
Ru-105		.023			.023
Ru-106	.218	.027			.245
S-35	1,089.369	2.019			1,091.388
Sb-124	.010				.010
Sb-125	.321	.047			.368
Sc-46	3.207	.027			3.234
Se-75	.093				.093
Sm-151	43.000				43.000
Sn-113	5.272	.037			5.309
Sn-119	.040				.040
Sr-85	.619	.024			.643
Sr-90	590.021	4.028	14,297.401	32,000.000	46,881.450
Tc-99	53.190				53.190
Tc-99m	4.643				4.643
Te-123	.013				.013
Th-228	1.000	.018			1.018
Th-230	.300	.001	.005		.306
Th-232	279.433	3.607	.072		283.112
Th-NAT	.031				.031
Tl-201	2.386				2.386
Tl-204	47.224	.090	1.775		49.089
U-233		.190			.190
U-234	3.962				3.962
U-235	1.102		.001		1.103
U-236	.053				.053
U-238	11,183.528	8.216	.002		11,191.746
U-DEP	343.920				343.920
U-NAT	15.345		.341		15.686
W-185	1.000				1.000
Y-88	.001		.015		.016
Y-90	42.250				42.250
Yb-169	.001				.001
Zn-65	72.491	.072	.006		72.569
Zr-95		.002			.002
Total	366,693.319	7,097.785	33,420,651.492	2,831,935.000	36,629,377.596

Table C-6 (Continued)

Evaporator Bottoms

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	34.094				34.094
Co-58	6,796.016				6,796.016
Co-60	259,831.191				259,831.191
Cr-51	49,813.467				49,813.467
Cs-137	345.317				345.317
Fe-55	624,460.358				624,460.358
Fe-59	3,597.533				3,597.533
H-3	155.005				155.005
I-129	.915				.915
Mn-54	83,190.599				83,190.599
Ni-63	2,695.671				2,695.671
Tc-99	1.034				1.034
U-238	3,367.850				3,367.850
Zn-65	7,411.873				7,411.873
Total	1,041,700.923				1,041,700.923

Gas

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
H-3	2,864.525				2,864.525
Kr-85	1.445				1.445
Total	2,865.970				2,865.970

Non-Aqueous Liquids in Vials in Sorbent

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ba-133	.021				.021
C-14	.107				.107
Ce-144	.001				.001
Cl-36	.001				.001
Co-60	.012				.012
Cs-137	.022				.022
Fe-55	.005				.005
Mn-54	.010				.010
Na-22	.015				.015
Pb-210	.006				.006
Sn-113	.009				.009
Sr-90	.001				.001
Th-232	.001				.001

Table C-6 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Tl-204	.001				.001
U-238	.040				.040
Zn-65	.010				.010
Total	.262				.262

Non-Cartridge Filter Media

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
C-14	5.217	9.168			14.385
Co-57	5.445	25.920			31.365
Co-58	5,990.073	23,645.124			29,635.197
Co-60	247,157.228	250,197.367			497,354.595
Cr-51	19,304.897	22,974.037			42,278.934
Cs-134	579.570	222.243			801.813
Cs-137	1,209.567	515.657			1,725.224
Fe-55	579,162.708	575,892.451			1,155,055.159
Fe-59	3,516.751	14,265.494			17,782.245
H-3	262.462	397.069			659.531
I-129	.060	.026			.086
Mn-54	123,674.334	159,779.527			283,453.861
Nb-95	36.174				36.174
Ni-63	19,465.809	969.389			20,435.198
P-32		8,064.371			8,064.371
Sb-124	64.437				64.437
Sr-90	73.561	22.140			95.701
Tc-99	1.814	.774			2.588
Zn-65	4,264.834	6,736.222			11,001.056
Total	1,004,774.941	1,063,716.979			2,068,491.920

Non-Compacted Dry Active Waste

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Ag-110	1.266				1.266
Ag-110m	.476				.476
Ba-140	1.445				1.445
Be-7	.001				.001
Bi-210	.001				.001
C-14	124.934				124.934
Cd-109	21.300				21.300
Ce-141	.131				.131

Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ce-144	.699				.699
Co-57	12.602				12.602
Co-58	32.352				32.352
Co-60	1,195.838		605.000		1,800.838
Cr-51	11.242				11.242
Cs-134	114.029				114.029
Cs-135	.063				.063
Cs-137	298.730	200.000	2,627.648		3,126.378
Fe-55	525.788				525.788
Fe-59	4.383				4.383
Ge-68	.300				.300
H-3	6,023.922				6,023.922
I-125	1.437				1.437
I-129	.124				.124
I-131	20.890				20.890
Mn-54	17.909				17.909
Na-22	100.246				100.246
Nb-94	.120				.120
Nb-95	10.930				10.930
Ni-63	53.216				53.216
P-32	.152				.152
Po-210	.001				.001
Pu-241	4.218				4.218
Ra-226	.218		683.341		683.559
Rb-86	.001				.001
Ru-106	2.351				2.351
S-35	1.397				1.397
Sb-124	21.351				21.351
Sb-125	6.726				6.726
Sn-113	.700				.700
Sr-90	.008		56.865		56.873
Tc-99	.145				.145
Th-232	18.856				18.856
Th-NAT	.625				.625
U-234	.001				.001
U-238	18.355				18.355
Zn-65	121.647				121.647
Zr-95	4.986				4.986
Total	9,776.112	200.000	3,972.854		12,948.966

Table C-6 (Continued)

Other

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Am-241	.679				.679
Au-195	.004				.004
Ba-133	.274				.274
Bi-210	.001				.001
C-14	1.652				1.652
Cd-113	.001				.001
Co-57	16.876				16.876
Co-60	.020				.020
Cs-137	77.152				77.152
Fe-55	.052				.052
H-3	5,720.539				5,720.539
I-125	2.988				2.988
Na-22	.001				.001
Pu-239	.015				.015
Pu-240	.015				.015
Ra-226	4,650.737				4,650.737
S-35	.005				.005
Sc-46	.002				.002
Sn-113	.006				.006
Sr-90	.051				.051
Th-232	.335				.335
Th-NAT	.025				.025
U-238	.741				.741
U-NAT	.080				.080
Total	10,472.251				10,472.251

Solidified Liquids

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Am-241	.001	10.056			10.057
Ba-133	.003	.009			.012
Bi-207	.003				.003
C-14	16.326	3.528		9,650.000	9,669.854
Ca-45	.927	.001			.928
Cd-109	.004				.004
Ce-141	.011				.011
Cl-36	.030				.030
Cl-38	.100				.100
Co-57	.006	20.572			20.578
Co-58	.255	.004			.259
Co-60	6.720	16.438			23.158
Cr-51	20.753				20.753



Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cs-134		.052			.052
Cs-137	.053	10.023			10.076
Fe-55	5.130				5.130
Fe-59	.003				.003
Cd-148	.001				.001
H-3	930.703	13,213.167	489,000.000	496,240.000	999,386.870
I-125	58.487	.453			58.940
In-111	.011				.011
Ir-192		.002			.002
Kr-85	1,000.000				1,000.000
Mn-54	.866				.866
Na-22	.041	2.508			2.549
Nb-95	.011				.011
Ni-63	270.255				270.255
P-32	241.534				241.534
Pm-147	917.991				917.991
Po-210	.001	.001			.002
Ra-226		.141			.141
Rb-86	.010				.010
Ru-103	.011				.011
S-35	98.591	.622			99.213
Sc-46	.011				.011
Se-75	.001				.001
Sn-113	.015	.001			.016
Sr-85	.011				.011
Sr-90	.002	.005			.007
Tc-99		3.752			3.752
Th-230		.010			.010
Th-232	.446	1.414			1.860
U-238	2.523	1.523			4.046
Zn-65	.164	.004			.168
Total	3,572.011	13,284.286	489,000.000	505,890.000	1,011,746.297

## Solidified Oil

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	96.151				96.151
Am-241	1.030				1.030
As-76	.032				.032
C-14	16.216				16.216
Cm-242	.376				.376
Cm-244	.337				.337
Co-58	1.315				1.315
Co-60	220.665				220.665



Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Cs-134	14.200				14.200
Cs-137	252.691				252.691
Cu-64	.001				.001
Fe-55	265.659				265.659
H-3	142.195				142.195
I-129	.058				.058
Kr-85	1,000.000				1,000.000
Mn-54	5.403				5.403
Ni-63	22.438				22.438
Pu-238	.538				.538
Pu-239	.642				.642
Pu-241	18.798				18.798
Sr-90	85.687				85.687
Tc-99	.487				.487
U-238	11.120				11.120
Total	2,156.039				2,156.039

Solidified Resins

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	20.179		1,261.500		1,281.679
C-14	7.933	.251	18.740		26.924
Cm-242			.060		.060
Co-57		3.086			3.086
Co-58	2,548.638		319.500		2,868.138
Co-60	75,159.682	5.000	49,950.000		125,114.682
Cr-51			115.300		115.300
Cs-134	.117		9,075.000		9,075.117
Cs-137	184.901	.011	18,980.000		19,164.912
Fe-55	164,053.680		4,490.000		168,543.680
Fe-59	576.070				576.070
H-3	18.187	.895	2.860		21.942
Hf-181	4.826				4.826
I-125		.205			.205
I-129	.009				.009
Mn-54	15,293.961		13,350.000		28,643.961
Nb-95	6.266				6.266
Ni-63	1,179.794		350.500		1,530.294
Pu-241			3.795		3.795
S-35		.017			.017
Sb-125	.083				.083
Sn-113	1.064				1.064
Sr-90	.030		17.050		17.080
Tc-99	.276		.180		.456

Table C-6 (Continued)

Nuclide	Class AU	Class AS	Class B	Class C	Total
Th-232		.050			.050
U-234	.015				.015
U-235	.001				.001
U-236	.001				.001
U-238	14.571	.196			14.767
Zn-65	1,470.999				1,470.999
Zr-95	2.645				2.645
Total	260,543.928	9.711	97,934.485		358,488.124

Sorbed Aqueous Liquid

Nuclide	Class AU	Class AS	Class B	Class C	Total
Ag-110m	.003				.003
Am-241	1.322				1.322
C-14	287.455				287.455
Ca-45	16.433				16.433
Cd-109	.004				.004
Ce-144	.003				.003
Cl-36	3.185				3.185
Co-57	54.839				54.839
Co-58	2.572				2.572
Co-60	78.360				78.360
Cr-51	39.099				39.099
Cs-134	4.815				4.815
Cs-137	10.927				10.927
Eu-152	.005				.005
Eu-155	.001				.001
Fe-55	21.474				21.474
Fe-59	.001				.001
Gd-153	.006				.006
H-3	775.651				775.651
I-125	593.094				593.094
I-129	.026				.026
In-114m	.001				.001
Mn-54	1.638				1.638
Na-22	6.308				6.308
Nb-95	.949				.949
Ni-63	2.930				2.930
P-32	379.192				379.192
P-33	.016				.016
Po-210	.001				.001
Pu-238	.415				.415
Pu-239	2.407				2.407
Pu-240	1.198				1.198

Table C-6 (Continued)

<u>Nuclide</u>	<u>Class AU</u>	<u>Class AS</u>	<u>Class B</u>	<u>Class C</u>	<u>Total</u>
Pu-241	39.412				39.412
Pu-242	.021				.021
Rb-86	2.159				2.159
Ru-103	.001				.001
S-35	371.022				371.022
Sb-125	.113				.113
Sc-46	.002				.002
Se-75	.008				.008
Sn-113	3.008				3.008
Sr-85	.002				.002
Sr-90	.901				.901
Tc-99	50.026				50.026
Th-232	.180				.180
U-238	.151				.151
Zn-65	.013				.013
Total	2,751.349				2,751.349

APPENDIX D

RICHLAND 1989 RADIONUCLIDE DISTRIBUTION BY WASTE STREAM AND INDUSTRY

## APPENDIX D

### RICHLAND 1989 RADIONUCLIDE DISTRIBUTION BY WASTE STREAM AND INDUSTRY

This appendix presents five tables, each of which lists radionuclide distributions as a function of waste stream and general industry for waste disposed at the Richland, WA, disposal facility during 1989. Waste streams considered in this appendix are identical to those considered for 1989 in Appendix C. The general industries considered are, in order: (1) colleges and universities, (2) government, (3) hospitals, (4) industry, and (5) nuclear utilities. All radionuclide distributions are in units of millicuries (mCi).

Table D-1. Richland 1989 Radionuclide Distributions (mCi) for Colleges

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 02 DRY SOLID						
AG-105	000	002	002	000	000	002
AG-110	000	011	011	000	000	011
AG-110M	000	18 543	18 543	000	000	18 543
AH 241	000	3 587	3 587	000	000	3 587
BA-133	000	2 617	2 617	000	000	2 617
BA-140	000	001	001	000	000	001
BI-210	000	001	001	000	000	001
C-14	000	359 856	359 856	000	000	359 856
CA-45	000	44 198	44 198	000	000	44 198
CD-108	000	1 456	1 456	000	000	1 456
CD-115	000	011	011	000	000	011
CE-141	000	2 042	2 042	000	000	2 042
CE-144	000	009	009	000	000	009
CF-252	000	001	001	000	000	001
CL-36	000	3 963	3 963	000	000	3 963
CO-56	000	036	036	000	000	036
CO-57	000	4 800	4 800	000	000	4 800
CO-58	000	046	046	000	000	046
CO-60	000	48 749	48 749	000	000	48 749
CR-51	000	352 014	352 014	000	000	352 014
CS-134	000	109	109	000	000	109
CS-137	000	2 018	2 018	000	000	2 018
CS-141	000	001	001	000	000	001
EU-151	000	001	001	000	000	001
EU-152	000	1 732	1 732	000	000	1 732
KU-154	000	940	940	000	000	940
EU-155	000	080	080	000	000	080
FE-55	000	1 022	1 022	000	000	1 022
FE-59	000	788	788	000	000	788
GA-68	000	1 400	1 400	000	000	1 400
GD-153	000	285	285	000	000	285
GE-68	000	1 281	1 281	000	000	1 281
H-3	000	43 851 495	43 851 495	000	000	43 851 495
HF-175	000	002	002	000	000	002
I-123	000	002	002	000	000	002
I-125	000	1 227 760	1 227 760	000	000	1 227 760
I-129	000	002	002	000	000	002
I-131	000	46 552	46 552	000	000	46 552
IN-111	000	101	101	000	000	101
IR-192	000	001	001	000	000	001
LA-140	000	001	001	000	000	001
MN-54	000	1 999	1 999	000	000	1 999
NA-22	000	25 207	25 207	000	000	25 207
NA-24	000	002	002	000	000	002
NB-95	000	1 717	1 717	000	000	1 717
NI-63	000	76 570	76 570	000	000	76 570



Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
P-32	000	935 168	935 168	000	000	935 168
PA-231	000	003	003	000	000	003
PM-147	000	200	200	000	000	200
PO-210	000	020	020	000	000	020
PU-239	000	050	050	000	000	050
RA-226	000	3 177	3 177	000	10 000	13 177
RB-86	000	4 853	4 853	000	000	4 853
RE-187	000	002	002	000	000	002
RU-103	000	2 248	2 248	000	000	2 248
S-35	000	971 415	971 415	000	000	971 415
SB-124	000	102	102	000	000	102
SB-125	000	016	016	000	000	016
SC-41	000	050	050	000	000	050
SE-75	000	4 528	4 528	000	000	4 528
SM-153	000	2 203 971	2 203 971	000	000	2 203 971
SN-113	000	22 800	22 800	000	000	22 800
SN-119M	000	6 336	6 336	000	000	6 336
SR-85	000	001	001	000	000	001
SR-86	000	7 771	7 771	000	000	7 771
SR-90	000	9 925	9 925	000	000	9 925
TA-179	000	002	002	000	000	002
TB-157	000	002	002	000	000	002
TB-158	000	002	002	000	000	002
TC-99	000	4 513	4 513	000	000	4 513
TC-99M	000	4 000	4 000	000	000	4 000
TH-228	000	001	001	000	000	001
TH-230	000	001	001	000	000	001
TH-232	000	366	366	000	000	366
TH-NAT	000	002	002	000	000	002
TL-204	000	2 420	2 420	000	000	2 420
U-233	000	010	010	000	000	010
U-235	000	012	012	000	000	012
U-238	000	1 759	1 759	000	000	1 759
U-NAT	000	3 919	3 919	000	000	3 919
Y-90	000	001	001	000	000	001
ZN-65	000	44 297	44 297	000	000	44 297
ZR-95	000	101	101	000	000	101
Totals:	000	50 317 055	50 317 055	000	10 000	50 327 055

Table D-1 (Continued)

Isotope	A. S. Activity	A. U. Activity	A. Activity	B. S. Activity	C. S. Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AG-110M	.000	4.725	4.725	.000	.000	4.725
AH-241	.000	.005	.005	.000	.000	.005
C-14	.000	99.988	99.988	.000	299.963	399.951
CA-45	.000	3.777	3.777	.000	.000	3.777
CD-109	.000	.008	.008	.000	.000	.008
CL-36	.000	.008	.008	.000	.000	.008
CO-60	.000	.296	.296	.000	.000	.296
CR-51	.000	1.087	1.087	.000	.000	1.087
FE-59	.000	.001	.001	.000	.000	.001
H-3	.000	2.040.333	2.040.333	.000	3.133	2,043.466
HG-203	.000	.001	.001	.000	.000	.001
I-123	.000	.002	.002	.000	.000	.002
I-125	.000	23.299	23.299	.000	.000	23.299
MA-22	.000	.035	.035	.000	.000	.035
P-32	.000	51.740	51.740	.000	.000	51.740
Pu-241	.000	.037	.037	.000	.000	.037
RA-226	.000	.002	.002	.000	.000	.002
S-35	.000	46.938	46.938	.000	.000	46.938
SR-90	.000	.002	.002	.000	.000	.002
TH-228	.000	.063	.063	.000	.000	.063
U-238	.000	.002	.002	.000	.000	.002
ZN-65	.000	2.174	2.174	.000	.000	2.174
Totals:	.000	2,274.523	2,274.523	.000	303.096	2,577.619

D-5

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 04 BIOLOGICAL (NON-CARCASS WASTE)						
BI-205	.000	.004	.004	.000	.000	.004
C-14	.000	4.709	4.709	.000	.000	4.709
CA-45	.000	2.500	2.500	.000	.000	2.500
CD-109	.000	.284	.284	.000	.000	.284
CE-141	.000	.676	.676	.000	.000	.676
CL-36	.000	.050	.050	.000	.000	.050
CO-57	.000	14.485	14.485	.000	.000	14.485
CR-51	.000	.624	.624	.000	.000	.624
CU-67	.000	3.191	3.191	.000	.000	3.191
FE-59	.000	.006	.006	.000	.000	.006
GA-67	.000	.156	.156	.000	.000	.156
GD-153	.000	.154	.154	.000	.000	.154
H-3	.000	1.771.727	1.771.727	.000	.000	1.771.727
I-123	.000	.004	.004	.000	.000	.004
I-125	.000	12.079	12.079	.000	.000	12.079
I-131	.000	2.514	2.514	.000	.000	2.514
IN-111	.000	.125	.125	.000	.000	.125
IN-114	.000	.001	.001	.000	.000	.001
HN-54	.000	.004	.004	.000	.000	.004
NA-22	.000	.166	.166	.000	.000	.166
NB-95	.000	.183	.183	.000	.000	.183
P-32	.000	1.560	1.560	.000	.000	1.560
PO-210	.000	.002	.002	.000	.000	.002
RU-103	.000	.277	.277	.000	.000	.277
S-35	.000	3.703	3.703	.000	.000	3.703
SC-46	.000	10.962	10.962	.000	.000	10.962
SN-113	.000	1.238	1.238	.000	.000	1.238
SR-85	.000	.752	.752	.000	.000	.752
TC-99M	.000	.002	.002	.000	.000	.002
TL-201	.000	3.254	3.254	.000	.000	3.254
XE-133	.000	4.034	4.034	.000	.000	4.034
ZN-65	.000	.076	.076	.000	.000	.076
Totals:	.000	1,839.502	1,839.502	.000	.000	1,839.502

Table D-1 (Continued)

Table D-1 (Continued)

Isotope	A. S. Activity	A. U. Activity	A. Activity	B. S. Activity	C. S. Activity	Total Activity
Waste Description: 08 DEMATERED RESINS						
CE-141	.000	.001	.001	.000	.000	.001
CE-144	.000	.001	.001	.000	.000	.001
CO-58	.000	.001	.001	.000	.000	.001
CO-60	.000	.001	.001	.000	.000	.001
CR-51	.000	.001	.001	.000	.000	.001
EU-152	.000	.001	.001	.000	.000	.001
FE-59	.000	.001	.001	.000	.000	.001
H-3	.000	.039	.039	.000	.000	.039
LA-140	.000	.001	.001	.000	.000	.001
MN-54	.000	.001	.001	.000	.000	.001
SR-124	.000	.001	.001	.000	.000	.001
SC-46	.000	.001	.001	.000	.000	.001
TE-132	.000	.001	.001	.000	.000	.001
Totals:	.000	.051	.051	.000	.000	.051

Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: In CORRED AGREEMENT: LIQUID						
AM-241	000	003	003	000	000	003
BA-133	000	326	326	000	000	326
BR-82	000	001	001	000	000	001
C-14	000	403 570	403 570	000	000	403 570
CA-45	000	109 602	109 602	000	000	109 602
CD-109	000	052	052	000	000	052
CE-137	000	2 793	2 793	000	000	2 793
CE-141	000	1 268	1 268	000	000	1 268
CE-144	000	001	001	000	000	001
CL-36	000	9 318	9 318	000	000	9 318
CO-57	000	49 391	49 391	000	000	49 391
CO-58	000	006	006	000	000	006
CO-60	000	4 169	4 169	000	000	4 169
CR-51	000	588 517	588 517	000	000	588 517
CS-134	000	4 693	4 693	000	000	4 693
CS-137	000	2 415	2 415	000	000	2 415
EU-152	000	023	023	000	000	023
FE-55	000	101	101	000	000	101
FE-59	000	971	971	000	000	971
GA-67	000	200	200	000	000	200
GD-153	000	244	244	000	000	244
GE-68	000	167	167	000	000	167
H-3	000	29 117 765	29 117 765	000	000	29 117 765
I-125	000	3 608 755	3 608 755	000	000	3 608 755
I-131	000	15 517	15 517	000	000	15 517
IN-111	000	003	003	000	000	003
IN-114	000	018	018	000	000	018
MN-54	000	3 611	3 611	000	000	3 611
MO-99	000	3 502	3 502	000	000	3 502
NA-22	000	35 325	35 325	000	000	35 325
NB-95	000	017	017	000	000	017
NI-63	000	1 001	1 001	000	000	1 001
P-32	000	2 181 602	2 181 602	000	000	2 181 602
P-33	000	3 311	3 311	000	000	3 311
PO-209	000	279	279	000	000	279
PO-210	000	001	001	000	000	001
PU-241	000	004	004	000	000	004
RA-226	000	001	001	000	000	001
RB-86	000	10 968	10 968	000	000	10 968
RU-103	000	001	001	000	000	001
S-35	000	6 086 473	6 086 473	000	000	6 086 473
SC-46	000	1 192	1 192	000	000	1 192
SE-75	000	4 425	4 425	000	000	4 425
SM-113	000	103	103	000	000	103
SM-117	000	076	076	000	000	076



Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
SR-85	.000	1.688	1.688	.000	.000	1.688
TC-99	.000	32.020	32.020	.000	.000	32.020
TC-99M	.000	8.000	8.000	.000	.000	8.000
YH-232	.000	.600	.600	.000	.000	.600
TL-201	.000	8.000	8.000	.000	.000	8.000
TL-204	.000	.005	.005	.000	.000	.005
TM-170	.000	.010	.010	.000	.000	.010
U-235	.000	.024	.024	.000	.000	.024
U-238	.000	.883	.883	.000	.000	.883
Y-90	.000	.001	.001	.000	.000	.001
ZN-65	.000	6.197	6.197	.000	.000	6.197
Totals:	.000	42.309 210	42.309 210	.000	.000	42.309 210



Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 13 ALPHA: LIQUIDS IN VIALS IN CORBENT						
BA-133	000	240	240	000	000	240
C-14	000	326 778	326 778	000	000	326 778
CA-45	000	667	667	000	000	667
CD-109	000	058	058	000	000	058
CE-141	000	2 394	2 394	000	000	2 394
CL-36	000	011	011	000	000	011
CO-57	000	030	030	000	000	030
CO-60	000	7 936	7 936	000	000	7 936
CR-51	000	602	602	000	000	602
CS-137	000	336 363	336 363	000	000	336 363
H 3	000	44 777	44 777	000	000	44 777
I-125	000	46 363	46 363	000	000	46 363
I-131	000	001	001	000	000	001
IN-111	000	2 165	2 165	000	000	2 165
NA-22	000	024	024	000	000	024
NB-95	000	077	077	000	000	077
NI-63	000	5 016	5 016	000	000	5 016
P-32	000	266	266	000	000	266
PR-210	000	100	100	000	000	100
RB-86	000	031	031	000	000	031
RU-103	000	26 168	26 168	000	000	26 168
S-35	000	088	088	000	000	088
SC-46	000	353	353	000	000	353
SN-113	000	001	001	000	000	001
SR-85	000	001	001	000	000	001
SR-90	000	001	001	000	000	001
TC-99M	000	001	001	000	000	001
ZN-65	000	196	196	000	000	196
Totals:	000	801 035	801 035	000	000	801 035

Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
BR-82	000	001	001	000	000	001
C-14	000	298.317	298.317	000	000	298.317
CA-45	000	161.998	161.998	000	000	161.998
CA-47	000	003	003	000	000	003
CB-109	000	893	893	000	000	893
CE-141	000	337.802	337.802	000	000	337.802
CE-144	000	3.331	3.331	000	000	3.331
CL-36	000	253	253	000	000	253
CO-57	000	48.406	48.406	000	000	48.406
CO-58	000	080	080	000	000	080
CO-60	000	1.439	1.439	000	000	1.439
CR-51	000	840.987	840.987	000	000	840.987
CU-64	006	007	007	000	000	007
CU-67	000	007	007	000	000	007
FE-55	000	752	752	000	000	752
FE-59	000	2.291	2.291	000	000	2.291
GA-87	000	037	037	000	000	037
GD-153	000	14.230	14.230	000	000	14.230
GE-68	000	001	001	000	000	001
H-3	000	2,887.305	2,887.305	000	000	2,887.305
HG-203	006	065	065	000	000	065
I-123	000	022	022	000	000	022
I-125	000	196.387	196.387	000	000	196.387
I-131	000	114.484	114.484	000	000	114.484
IN-111	000	455	455	000	000	455
IN-113	000	002	002	000	000	002
IN-114	000	4.640	4.640	000	000	4.640
MN-51	000	001	001	000	000	001
MN-54	000	8.082	8.082	000	000	8.082
NA-22	000	735	735	000	000	735
NB-95	000	550.255	550.255	000	000	550.255
NI-63	000	1.060	1.060	000	000	1.060
P-32	000	9.591	9.591	000	000	9.591
PO-210	000	088	088	000	000	088
RB-86	000	235	235	000	000	235
RB-95	000	001	001	000	000	001
RU-103	000	195.516	195.516	000	000	195.516
S-35	000	184.875	184.875	000	000	184.875
SC-41	000	058	058	000	000	058
SC-46	000	502.927	502.927	000	000	502.927
SE-75	000	168.918	168.918	000	000	168.918
SN-113	000	19.744	19.744	000	000	19.744
SR-85	000	575.573	575.573	000	000	575.573
SR-89	000	5.222	5.222	000	000	5.222
TC-99	000	21.850	21.850	000	000	21.850
TC-99M	000	66.986	66.986	000	000	66.986

Table D-1 (Continued)

Isotope	A-S Activity	A-U Activity	A Activity	B-S Activity	C-S Activity	Total Activity
Tl-201	.000	38.052	38.052	.000	.000	38.052
U-235	.000	.005	.005	.000	.000	.011
U-238	.000	.011	.011	.000	.000	.011
Xe-133	.000	.001	.001	.000	.000	.001
Zn-65	.000	18.148	18.148	.000	.000	18.148
Totals:	.000	7.282.129	7.282.129	.000	.000	7.282.129

Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
AM-241	000	036	036	000	000	036
BA-133	000	045	045	000	000	045
C-14	000	149 282	149 282	000	000	149 282
CA-45	000	25 082	25 082	000	000	25 082
CD-109	000	023	023	000	000	023
CE-141	000	322	322	000	000	322
CL-36	000	1 736	1 736	000	000	1 736
CO-57	000	363	363	000	000	363
CO-60	000	1 917	1 917	000	000	1 917
CR-51	000	271 715	271 715	000	000	271 715
CS-134	000	151	151	000	000	151
CS-137	000	012	012	000	000	012
EU-152	000	013	013	000	000	013
FE-55	000	943	943	000	000	943
FE-59	000	044	044	000	000	044
GA-68	000	5 600	5 600	000	000	5 600
GE-68	000	10 327	10 327	000	000	10 327
H-3	000	2,134 603	2,134 603	000	000	2,134 603
I-125	000	911 319	911 319	000	000	911 319
I-131	000	31 038	31 038	000	000	31 038
MN-54	000	317	317	000	000	317
NA-22	000	984	984	000	000	984
NB-95	000	155	155	000	000	155
NI-63	000	9 410	9 410	000	000	9 410
P-32	000	352 280	352 280	000	000	352 280
RB-86	000	051	051	000	000	051
RU-103	000	145	145	000	000	145
S-35	000	792 406	792 406	000	000	792 406
SC-46	000	197	197	000	000	197
SE-75	000	657	657	000	000	657
SM-153	000	8 600	8 600	000	000	8 600
SR-113	000	404	404	000	000	404
SR-85	000	250	250	000	000	250
TC-99	000	015	015	000	000	015
ZN-65	000	11 777	11 777	000	000	11 777
Totals:	000	4,722,219	4,722,219	000	000	4,722,219

Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 22 NON-COMPACTED DRY ACTIVE WASTE						
AM-241	000	120	120	000	000	120
BA-133	000	001	001	000	000	001
C-14	000	112	112	000	000	112
CA-45	000	032	032	000	000	032
CO-57	000	601	601	000	000	601
CO-60	000	729 276	729 276	000	000	729 276
CS-137	000	2 110	2 110	000	000	2 110
EU-152	000	8 430	8 430	000	000	8 430
H-3	000	4 210	4 210	000	000	4 210
I-125	000	423	423	000	000	423
HN-54	000	114 430	114 430	000	000	114 430
NA-22	000	040	040	000	000	040
RA-226	000	002	002	000	000	002
S-35	000	1 310	1 310	000	000	1 310
SR-90	000	005	005	000	000	005
TH-232	000	196	196	000	000	196
TR-NAT	000	022	022	000	000	022
U-238	000	1 000	1 000	000	000	1 000
U-NAT	000	001	001	000	000	001
ZN-65	000	5 766	5 766	000	000	5 766
Totals:	000	868 087	868 087	000	000	868 087



Table D-1 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 25 ACTIVATED REACTOR HARDWARE						
C-14	.000	1 900	1 900	.000	.000	1 900
CO-60	.000	364 400	364 400	.000	.000	364 400
EU-152	.000	190	190	.000	.000	190
H-3	.000	22 200	22 200	.000	.000	22 200
TH-232	.000	011	011	.000	.000	011
U-238	.000	2 360	2 360	.000	.000	2 360
Totals:	.000	391 061	391 061	.000	.000	391 061
GRAND TOTALS:	.000	110 804 872	110 804 872	.000	313 096	111 117 968

Table D-2. Richland 1989 Radionuclide Distributions (mCi) for Government

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 02 DRY SOLID						
AH-241	425	013	438	000	000	438
BA-133	000	1 005	1 005	000	000	1 005
BI-204	000	5 000	5 000	000	000	5 000
BI-207	000	1 100	1 100	000	000	1 100
C-14	000	17 300	17 300	000	000	17 300
CF-252	000	005	005	000	000	005
CH-244	000	505	505	000	000	505
CO-57	000	001	001	000	000	001
CO-58	000	41 215	41 215	000	000	41 215
CO-60	000	834 774	834 774	000	000	834 774
CR-51	000	010	010	000	000	010
CS-134	000	002	002	000	000	002
CS-137	000	1 010	1 010	000	000	1 010
FE-55	000	825 426	825 426	000	000	825 426
H-3	000	107 202	107 202	000	000	107 202
I-125	000	31 370	31 370	000	000	31 370
KR-85	000	134 402	134 402	000	000	134 402
MN-54	000	140 011	140 011	000	000	140 011
NA-22	000	001	001	000	000	001
NB-94	000	190	190	000	000	190
NI-63	000	42 367	42 367	000	000	42 367
PB-210	000	75 952	75 952	000	000	75 952
PO-208	000	002	002	000	000	002
PO-210	000	001	001	000	000	001
FU-239	086	000	086	000	000	086
RA-226	1 710	40 151	41 861	000	000	41 861
S-35	000	5 610	5 610	000	000	5 610
SB-124	000	10 000	10 000	000	000	10 000
SM-151	000	1 488 700	1 488 700	000	000	1 488 700
SR-88	000	602	602	000	000	602
SR-90	000	5 997	5 997	000	000	5 997
TP-232	000	347	347	000	000	347
TL-204	000	2 128	2 128	000	000	2 128
U-238	000	33 215	33 215	000	000	33 215
U-NAT	000	007	007	000	000	007
ZN-65	000	008	008	000	000	008
Totals:	2 221	3 845 029	3 847 250	000	485 229	4 332 479

Table D-2 (Continued)

Isotope	A S Activity	A U A tivity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AM-241	000	024	024	000	000	024
RA-133	000	002	002	000	000	002
C-14	000	1 326	1 326	000	000	1 326
CA-45	000	002	002	000	000	002
CD-109	000	001	001	000	000	001
CE-141	000	003	003	000	000	003
CO-56	000	466	466	000	000	466
CO-57	000	053	053	000	000	053
CO-58	000	2 541	2 541	000	000	2 541
CO-60	000	49 907	49 907	000	000	49 907
CR-51	000	1 052	1 052	000	000	1 052
CS-134	000	002	002	000	000	002
CS-137	000	005	005	000	000	005
EU-154	000	002	002	000	000	002
FE-55	000	50 371	50 371	000	000	50 371
FE-59	000	001	001	000	000	001
H-3	000	101 657	101 657	000	000	101 657
I-125	000	1 165	1 165	000	000	1 165
I-129	000	001	001	000	000	001
IN-111	000	301	301	000	000	301
IR-192	000	001	001	000	000	001
KR-85	000	023	023	000	000	023
MN-54	000	8 573	8 573	000	000	8 573
NA-22	000	001	001	000	000	001
NE-94	000	001	001	000	000	001
NI-63	000	2 541	2 541	000	000	2 541
FU-239	000	001	001	000	000	001
PU-240	000	001	001	000	000	001
RA-226	000	006	006	000	000	006
SB-125	000	001	001	000	000	001
SC-46	000	1 501	1 501	000	000	1 501
SM-113	000	002	002	000	000	002
SR-85	000	1 500	1 500	000	000	1 500
SR-90	000	001	001	000	000	001
TH-228	000	001	001	000	000	001
TH-232	000	010	010	000	000	010
U-235	000	002	002	000	000	002
U-238	000	078	078	000	000	078
Y-88	000	001	001	000	000	001
ZN-65	000	001	001	000	000	001
Totals:	000	223 128	223 128	000	000	223 128

Table D-2 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 09 SOLIDIFIED RESINS						
C-14	000	1 056	1 056	000	000	1 056
CO-58	000	2 642	2 642	000	000	2 642
CO-60	000	52 679	52 679	000	000	52 679
FE-55	000	52 679	52 679	000	000	52 679
H-3	000	33 642	33 642	000	000	33 642
MN-54	000	8 957	8 957	000	000	8 957
NI-63	000	2 642	2 642	000	000	2 642
Totals:	000	154 297	154 297	000	000	154 297



Table D-2 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description. 10						
SEBDED ACROBIC LIQUID						
AM-241	.000	.003	.003	.000	.000	.003
AS-73	.000	.010	.010	.000	.000	.010
BA-133	.000	.010	.010	.000	.000	.010
C-14	.000	.33901	.33901	.000	.000	.33901
CA-45	.000	1.214	1.214	.000	.000	1.214
CD-109	.000	.073	.073	.000	.000	.073
CO-57	.000	.003	.003	.000	.000	.003
CO-60	.000	.013	.013	.000	.000	.013
CR-51	.000	.003	.003	.000	.000	.003
CS-134	.000	.002	.002	.000	.000	.002
CS-137	.000	.014	.014	.000	.000	.014
EU-154	.000	.001	.001	.000	.000	.001
EU-155	.000	.001	.001	.000	.000	.001
FE-55	.000	.001	.001	.000	.000	.001
FE-59	.000	.069	.069	.000	.000	.069
H-3	.000	.36388	.36388	.000	.000	.36388
HG-203	.000	.001	.001	.000	.000	.001
I-125	.000	5.055	5.055	.000	.000	5.055
I-131	.000	.001	.001	.000	.000	.001
NA-22	.000	.571	.571	.000	.000	.571
NI-63	.000	.134	.134	.000	.000	.134
P-32	.000	.018	.018	.000	.000	.018
PB-210	.000	.147	.147	.000	.000	.147
PU-239	.000	.001	.001	.000	.000	.001
RA-226	.000	.002	.002	.000	.000	.002
RA-228	.000	.003	.003	.000	.000	.003
RU-106	.000	.002	.002	.000	.000	.002
S-35	.000	1.846	1.846	.000	.000	1.846
SB-125	.000	.001	.001	.000	.000	.001
SC-46	.000	.001	.001	.000	.000	.001
SE-75	.000	.053	.053	.000	.000	.053
SN-113	.000	.001	.001	.000	.000	.001
SR-85	.000	.001	.001	.000	.000	.001
SR-89	.000	.002	.002	.000	.000	.002
SR-90	.000	.003	.003	.000	.000	.003
TH-229	.000	.002	.002	.000	.000	.002
TH-NAT	.000	.001	.001	.000	.000	.001
U-235	.000	.001	.001	.000	.000	.001
U-238	.000	.002	.002	.000	.000	.002
U-NAT	.000	.001	.001	.000	.000	.001
Y-88	.000	.001	.001	.000	.000	.001
ZN-65	.000	.008	.008	.000	.000	.008
Totals:	.000	79.565	79.565	.000	.000	79.565



Table D-2 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 13 AQUEOUS LIQUIDS IN VIALS IN SORBENT						
C-14	.000	7.056	7.056	.000	.000	7.056
H-3	.000	46.650	46.650	.000	.000	46.650
P-32	.000	30.000	30.000	.000	.000	30.000
Totals:	.000	83.706	83.706	.000	.000	83.706

Table D-2 (Continued)

Isotope	A S Activity	A D Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 14 ANIMAL CARCASSES IN LIME AND SORBENT						
C-14	.000	4.242	4.242	.000	.000	4.242
CD-109	.000	.050	.050	.000	.000	.050
H-3	.000	14.945	14.945	.000	.000	14.945
Totals:	.000	19.237	19.237	.000	.000	19.237

Table D-2 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
C-14	.000	.036	.036	.000	.000	.036
CO-58	.000	.080	.080	.000	.000	.080
CO-60	.000	1.496	1.496	.000	.000	1.496
FE-55	.000	1.604	1.604	.000	.000	1.604
H-3	.000	.960	.960	.000	.000	.960
MN-54	.000	.259	.259	.000	.000	.259
NI-63	.000	.080	.080	.000	.000	.080
Totals:	.000	4.515	4.515	.000	.000	4.515

Table D-2 (Continued)

Isotope	A.S. Activity	A.U. Activity	A Activity	B.S. Activity	C.S. Activity	Total Activity
Waste Description: 72 NON-COMPACTED DRY ACTIVE WASTE						
AM-241	900	615	615	000	000	000
CO-57	000	001	001	000	000	001
CO-60	000	001	001	000	000	001
CR-51	000	011	011	000	000	011
CS-137	000	75 000	75 000	000	000	75 000
H-3	000	051	051	000	000	051
I-125	000	001	001	000	000	001
NI-63	000	001	001	000	000	001
PU-236	000	025	025	000	000	025
PU-239	000	001	001	000	000	001
PU-242	000	173 659	173 659	000	000	173 659
RA-226	000	001	001	000	000	001
SB-125	000	002	002	000	000	002
SR-90	000	001	001	000	000	001
TH-230	000	001	001	000	000	001
TR-NAT	000	075	075	000	000	075
U-235	000	228 881	228 881	000	000	228 881
U-238	000					
Totals:	000	478 328	478 328	000	000	478 328

Table D-2 (Continued)

Isotope	A S Activity	A U Activity	G Activity	B S Activity	C S Activity	Total Activity
Waste Description: 24 NEW CARTRIDGE FILTER MEDIA						
C-14	000	154	154	000	000	154
CO-58	000	383	383	000	000	383
CO-60	000	7 623	7 623	000	000	7 623
FE-55	000	7 623	7 623	000	000	7 623
H-3	000	2 073	2 073	000	000	2 073
MN-54	000	1 297	1 297	000	000	1 297
NI-63	000	383	383	000	000	383
Totals:	000	19 536	19 536	000	000	19 536



Table D-2 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 2# SOLIDIFIED CHELATES						
C-14	.000	.009	.009	.000	.000	.009
CO-58	.000	.023	.023	.000	.000	.023
CO-60	.000	.448	.448	.000	.000	.448
FE-55	.000	.448	.448	.000	.000	.448
B-3	.000	.462	.462	.000	.000	.462
MN-54	.000	.077	.077	.000	.000	.077
NI-63	.000	.023	.023	.000	.000	.023
Totals:	.000	1.490	1.490	.000	.000	1.490

Table D-2 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 27 SOLIDIFIED OIL						
CS-137	.000	.015	.015	.000	.000	.015
U-235	.000	.636	.636	.000	.000	.636
Totals:	.000	.651	.651	.000	.000	.651
GRAND TOTALS:	2.221	4,909,492	4,911,703	.000	485,229	5,396,932

Table D-3. Richland 1989 Radionuclide Distributions (mCi) for Hospitals

Isotope	A S Activity	A B Activity	A Activity	B S A Activity	C S Activity	Total Activity
AG-110	.000	.100	.100	.000	.000	.100
AM-241	.000	.015	.015	.000	.000	.015
C-14	.000	49.384	49.384	4	.000	53.384
CA-45	.000	.912	.912	.000	.000	.912
CE-141	.000	.125	.125	.000	.000	.125
CL-36	.000	.075	.075	.000	.000	.075
CM-244	.000	.700	.700	.000	.000	.700
CO-57	.000	5.881	5.881	.000	.000	5.881
CO-60	.000	4.615	4.615	.000	.000	4.615
CR-51	.000	57.722	57.722	.000	.000	57.722
CS-134	.000	40.100	40.100	.000	.000	40.100
CS-137	.000	104.325	104.325	.000	.000	104.325
KU-152	.000	.105	.105	.000	.000	.105
KE-55	.000	.001	.001	.000	.000	.001
KE-59	.000	37.500	37.500	.000	.000	37.500
GR-67	.000	68.846	68.846	.000	.000	68.846
GD-153	.000	32.657	32.657	.000	.000	32.657
H-3	.000	1,915.864	1,915.864	.935	.000	1,916.802
HG-203	.000	.100	.100	.000	.000	.100
I-121	.000	3.663	3.663	.000	.000	3.663
I-123	.000	24.760	24.760	.000	.000	24.760
I-125	.000	2,389.374	2,389.374	.000	.000	2,389.374
I-131	.000	58.347	58.347	.000	.000	58.347
IN-111	.000	25.713	25.713	.000	.000	25.713
NA-22	.000	2.378	2.378	.000	.000	2.378
NI-63	.000	.186	.186	.000	.000	.186
P-32	.000	79.301	79.301	.000	.000	79.301
PB-210	.000	1.001	1.001	.000	.000	1.001
RA-226	.015	.937	.952	.000	.000	1.952
RB-86	.000	1.148	1.148	.000	.000	1.148
SH-101	.000	1.000	1.000	.000	.000	1.000
SH-102	.000	1.000	1.000	.000	.000	1.000
RU-103	.000	1.400	1.400	.000	.000	1.400
S-35	.030	117.091	117.091	.000	.000	117.091
SC-45	.000	1.530	1.530	.000	.000	1.530
SE-75	.000	2.100	2.100	.000	.000	2.100
SN-113	.000	.003	.003	.000	.000	.003
SR-65	.000	.281	.281	.000	.000	.281
SR-80	.000	1.950	1.950	.000	.000	1.950
TC-99M	.000	800.078	800.078	.000	.000	800.078
TR-228	.000	.300	.300	.000	.000	.300
TL-201	.000	81.105	81.105	.000	.000	81.105
T-238	.000	.008	.008	.000	.000	.008
XE-133	.000	142.787	142.787	.000	.000	142.787
				63.376		63.376
						65.326
						800.078
						.300
						81.105
						.008
						142.787

Table D-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Totals:	.015	6,056.503	6,056.518	96.228	.000	6,152.746

Table 11-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
C-14	.000	8.977	8.977	.000	.000	8.977
CA-45	.000	3.901	3.901	.000	.000	3.901
CL-38	.000	.741	.741	.000	.000	.741
CO-57	.000	1.466	1.466	.000	.000	1.466
CR-51	.000	15.585	15.585	.000	.000	15.585
H-3	.000	700.059	700.059	.000	.000	700.059
I-125	.000	460.292	460.292	.000	.000	460.292
I-131	.000	25.001	25.001	.000	.000	25.001
IN-111	.000	.210	.210	.000	.000	.210
NA-22	.000	.182	.182	.000	.000	.182
P-32	.000	30.909	30.909	.000	.000	30.909
RB-86	.000	.500	.500	.000	.000	.500
S-35	.000	450.420	450.420	.000	.000	450.420
SC-46	.000	.009	.009	.000	.000	.009
ZN-65	.000	.150	.150	.000	.000	.150
Totals:	.000	1.698.402	1.698.402	.000	.000	1.698.402



Table D-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 04 BIOLOGICAL (NON-CARCASS WASTE)						
C-14	.000	6.155	6.155	.000	.000	6.155
CR-141	.000	.120	.120	.000	.000	.120
CR-51	.000	.240	.240	.000	.000	.240
H-3	.000	1.559	1.559	.000	.000	1.559
SR-85	.000	.120	.120	.000	.000	.120
Totals:	.000	8.194	8.194	.000	.000	8.194

Table D-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 10 SOBBED AQUEOUS LIQUID						
C-14	.000	273.414	273.414	.000	.000	273.414
CA-45	.000	61.759	61.759	.000	.000	61.759
CE-141	.000	.221	.221	.000	.000	.221
CL-36	.000	8.601	8.601	.000	.000	8.601
CO-57	.000	60.282	60.282	.000	.000	60.282
CO-60	.000	.208	.208	.000	.000	.208
CR-51	.000	1,208.919	1,208.919	.000	.000	1,208.919
FE-55	.000	1.405	1.405	.000	.000	1.405
FE-59	.000	5.680	5.680	.000	.000	5.680
GA-67	.000	.310	.310	.000	.000	.310
H-3	.000	16,066.422	16,066.422	.000	.000	16,066.422
HG-203	.000	.010	.010	.000	.000	.010
I-123	.000	37.404	37.404	.000	.000	37.404
I-125	.000	2,424.855	2,424.855	.000	.000	2,424.855
I-131	.000	1.849	1.849	.000	.000	1.849
IN-111	.000	4.277	4.277	.000	.000	4.277
IN-114	.000	.013	.013	.000	.000	.013
HN-54	.000	.020	.020	.000	.000	.020
MO-99	.000	.250	.250	.000	.000	.250
NA-22	.000	11.130	11.130	.000	.000	11.130
NB-95	.000	.400	.400	.000	.000	.400
NI-63	.000	.398	.398	.000	.000	.398
P-32	.000	846.536	846.536	.000	.000	846.536
PB-210	.000	.160	.160	.000	.000	.160
RB-86	.000	55.852	55.852	.000	.000	55.852
RO-103	.000	.360	.360	.000	.000	.360
S-35	.000	777.819	777.819	.000	.000	777.819
SC-46	.000	.569	.569	.000	.000	.569
SE-75	.000	.810	.810	.000	.000	.810
SH-113	.000	.100	.100	.000	.000	.100
SR-85	.000	1.127	1.127	.000	.000	1.127
SR-89	.000	.002	.002	.000	.000	.002
SR-90	.000	6.850	6.850	.000	.000	6.850
TC-99	.000	.250	.250	.000	.000	.250
TC-99M	.000	.251	.251	.000	.000	.251
TL-201	.000	.290	.290	.000	.000	.290
U-238	.000	.012	.012	.000	.000	.012
Y-90	.000	.410	.410	.000	.000	.410
Totals:	.000	21,859.225	21,859.225	.000	.000	21,859.225

Table D-3 (Continued)

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 11 SORBED NON-AQUEOUS LIQUID						
CA-45	.000	.127	.127	.000	.000	.127
SR-90	.000	5.000	5.000	.000	.000	5.000
Totals:	.000	5.127	5.127	.000	.000	5.127

Table D-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 13 AQUEOUS LIQUIDS IN VIALS IN SOLVENT						
AG-110	.000	2.000	2.000	.000	.000	2.000
C-14	.000	379.014	379.014	.000	.000	379.014
CA-45	.000	.415	.415	.000	.000	.415
CA-47	.000	.001	.001	.000	.000	.001
CE-141	.000	.010	.010	.000	.000	.010
CL-36	.000	.221	.221	.000	.000	.221
CO-57	.000	42.926	42.926	.000	.000	42.926
CU-58	.000	.318	.318	.000	.000	.318
CR-51	.000	63.705	63.705	.000	.000	63.705
FE-59	.000	3.077	3.077	.000	.000	3.077
GA-67	.000	1.186	1.186	.000	.000	1.186
GB-153	.000	1.220	1.220	.000	.000	1.220
H-3	.000	251.839	251.839	.000	.000	251.839
I-123	.000	.152	.152	.000	.000	.152
I-125	.000	521.273	521.273	.000	.000	521.273
I-129	.000	.020	.020	.000	.000	.020
I-131	.000	38.694	38.694	.000	.000	38.694
IN-111	.000	5.105	5.105	.000	.000	5.105
IN-114	.000	.600	.600	.000	.000	.600
IN-114M	.000	1.110	1.110	.000	.000	1.110
MO-54	.000	.020	.020	.000	.000	.020
NA-22	.000	1.652	1.652	.000	.000	1.652
NB-95	.000	1.440	1.440	.000	.000	1.440
P-32	.000	335.598	335.598	.000	.000	335.598
RE-86	.000	.321	.321	.000	.000	.321
RU-103	.000	1.978	1.978	.000	.000	1.978
S-35	.000	103.465	103.465	.000	.000	103.465
SC-46	.000	1.993	1.993	.000	.000	1.993
SE-75	.000	.072	.072	.000	.000	.072
SN-113	.000	2.140	2.140	.000	.000	2.140
SR-85	.000	.230	.230	.000	.000	.230
TC-99M	.000	1.557	1.557	.000	.000	1.557
TL-201	.000	.512	.512	.000	.000	.512
U-238	.000	.390	.390	.000	.000	.390
XE-133	.000	.270	.270	.000	.000	.270
YB-169	.000	.046	.046	.000	.000	.046
Totals:	.000	1,764.570	1,764.570	.000	.000	1,764.570

Table D-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 14 ANIMAL CARCASSES IN LIME AND SORBENT						
C-14	.000	97.372	97.372	.000	.000	97.372
CA-45	.000	210.225	210.225	.000	.000	210.225
CE-141	.000	10.221	10.221	.000	.000	10.221
CE-147	.000	.170	.170	.000	.000	.170
CO-57	.000	6.116	6.116	.000	.000	6.116
CR-51	.000	9.707	9.707	.000	.000	9.707
FE-59	.000	8.307	8.307	.000	.000	8.307
GA-67	.000	.401	.401	.000	.000	.401
H-3	.000	24,632.060	24,632.060	.000	.000	24,632.060
I-125	.000	28.808	28.808	.000	.000	28.808
I-131	.000	9.256	9.256	.000	.000	9.256
IN-111	.000	12.169	12.169	.000	.000	12.169
MN-54	.000	.010	.010	.000	.000	.010
NA-22	.000	.012	.012	.000	.000	.012
NB-95	.000	1.561	1.561	.000	.000	1.561
P-32	.000	.296	.296	.000	.000	.296
PB-210	.000	.010	.010	.000	.000	.010
RB-86	.000	1.500	1.500	.000	.000	1.500
RU-103	.000	2.704	2.704	.000	.000	2.704
S-35	.000	67.884	67.884	.000	.000	67.884
SC-46	.000	11.362	11.362	.000	.000	11.362
SC-47	.000	.001	.001	.000	.000	.001
SN-113	.000	9.060	9.060	.000	.000	9.060
SR-85	.000	14.741	14.741	.000	.000	14.741
TC-99M	.000	16.531	16.531	.000	.000	16.531
TL-201	.000	1.500	1.500	.000	.000	1.500
Totals:	.000	25,151.984	25,151.984	.000	.000	25,151.984



Table D-3 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 22 NON-COMPACTED DRY ACTIVE WASTE						
CO-57	.000	.001	.001	.000	.000	.001
R-3	.000	6.437	6.437	.000	.000	6.437
I-125	.000	.170	.170	.000	.000	.170
I-131	.000	5.000	5.000	.000	.000	5.000
P-32	.000	.260	.260	.000	.000	.260
S-35	.000	6.523	6.523	.000	.000	6.523
Totals:	.000	18.331	18.331	.000	.000	18.331
GRAND TOTALS:	.015	56,562.336	56,562.351	96.228	.000	56,658.579

Table D-4. Richland 1989 Radionuclide Distributions (mCi) for Industry

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 02 DRY SOLID						
AG-110	.000	1.359	1.359	.000	.000	1.359
AG-110M	.000	3.806	3.806	.000	.000	3.806
AM-241	.050	23.963	23.963	.000	42.953	66.916
AM-243	.000	.031	.031	.000	.000	.031
AS-73	.000	.520	.520	.000	.000	.520
Au-195	.000	4.612	4.612	.000	.000	4.612
BA-133	.000	23.436	23.436	.000	.000	23.436
BI-205	.000	.010	.010	.000	.000	.010
BI-206	.000	.025	.025	.000	.000	.025
BI-207	.000	.011	.011	.000	.000	.011
BI-210	.000	.033	.033	.000	.000	.033
C-14	.000	76,855.364	76,855.364	.000	69,118.656	145,974.020
C-15	.000	.060	.060	.000	.000	.060
CA-45	.000	177.201	177.201	.000	.000	177.201
CA-47	.000	.101	.101	.000	.000	.101
CD-109	.000	56.402	56.402	.000	.000	56.402
CD-116	.000	.003	.003	.000	.000	.003
CE-139	.000	.125	.125	.000	.000	.125
CE-141	.000	3.550	3.550	.000	.000	3.550
CE-144	.000	5.774	5.774	.000	.000	5.774
CF-252	.000	.001	.001	.000	.000	.001
CL-36	.000	57.159	57.159	.000	.000	57.159
CM-244	.000	.004	.004	.000	.000	.004
CO-56	.000	.001	.001	.000	.000	.001
CO-57	.000	612.847	612.847	.000	.000	612.847
CO-58	.000	224.504	224.504	.000	.000	224.504
CO-60	.000	2,298.996	2,298.996	.000	.000	2,298.996
CR-51	.000	1,990.785	1,990.785	.000	.000	1,990.785
CS-127	.000	20.640	20.640	.000	.000	20.640
CS-134	.000	139.469	139.469	.000	.000	139.469
CS-137	.000	819.609	819.609	.000	.000	819.609
DY-159	.000	.009	.009	.000	.000	.009
DY-165	.000	.001	.001	.000	.000	.001
EU-152	.000	6.124	6.124	.000	.000	6.124
EU-154	.000	3.342	3.342	.000	.000	3.342
EU-155	.000	.011	.011	.000	.000	.011
FE-53	.000	.200	.200	.000	.000	.200
FE-55	.000	1,381.994	1,381.994	.000	.000	1,381.994
FE-59	.000	22.075	22.075	.000	.000	22.075
GA-67	.000	66.137	66.137	.000	.000	66.137
GA-68	.000	.006	.006	.000	.000	.006
GD-153	.000	80.586	80.586	.000	.000	80.586
GE-68	.000	50.934	50.934	.000	.000	50.934
H-3	.000	1,509,129.838	1,509,129.838	54,344,050.000	.000	55,853,179.838
HF-181	.000	.096	.096	.000	.000	.096
HC-203	.000	35.830	35.830	.000	.000	35.830

D-35

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
I-123	.000	18.090	18.090	.000	.000	18.090
I-124	.000	.010	.010	.000	.000	.010
I-125	.000	13.095	13.095	.000	.000	13.095
I-128	.000	1.760	1.760	.000	.000	1.760
I-129	.000	8.108	8.108	.000	.000	8.108
I-131	.000	137.039	137.039	.000	.000	137.039
IN-111	.000	148.828	148.828	.000	.000	148.828
IN-113	.000	.070	.070	.000	.000	.070
IN-114	.000	140	140	.000	.000	140
IN-114M	.000	22.146	22.146	.000	.000	22.146
IR-192	.000	.010	.010	.000	.000	.010
KE-85	.000	1,661.884	1,661.884	.000	.000	1,661.884
LA-140	.000	113.738	113.738	.000	.000	113.738
MO-89	.000	.050	.050	.000	.000	.050
NA-22	.000	311.277	311.277	.000	.000	311.277
NA-24	.000	.011	.011	.000	.000	.011
NB-95	.000	39.748	39.748	.000	.000	39.748
NB-96	.000	.010	.010	.000	.000	.010
NI-58	.000	.088	.088	.000	.000	.088
NI-63	.000	5,152.887	5,152.887	19.020	.000	24,172.887
NI-63AM	.000	2,949.990	2,949.990	.000	.000	2,949.990
NP-237	.000	.016	.016	.000	.000	.016
P-32	.000	8,761.289	8,761.289	.000	.000	8,761.289
P-33	.000	.826	.826	.000	.000	.826
PB-206	.000	.010	.010	.000	.000	.010
PB-210	.000	.036	.036	.000	.000	.036
PM-147	.000	828.140	828.140	.000	.000	828.140
PO-208	.000	.020	.020	.000	.000	.020
PO-209	.000	.010	.010	.000	.000	.010
PO-210	.000	3,156.136	3,156.136	.000	.000	3,156.136
PT-193	.000	.001	.001	.000	.000	.001
Pu-236	.000	.001	.001	.000	.000	.001
Pu-238	.000	.586	.586	.000	.000	.586
Pu-239	.000	6.068	6.068	.000	.000	6.068
Pu-240	.000	1.369	1.369	.000	.000	1.369
Pu-241	.000	27.855	27.855	.000	.000	27.855
Pu-242	.000	.031	.031	.000	.000	.031
RA-226	7.500	137.406	144.906	1.459	.000	163.365
RB-83	.000	9.000	9.000	.000	.000	9.000
RB-86	.000	53.963	53.963	.000	.000	53.963
RU-103	.000	7.133	7.133	.000	.000	7.133
RU-106	.000	.003	.003	.000	.000	.003
S-35	.000	46,172.242	46,172.242	.000	.000	46,172.242
SB-122	.000	.020	.020	.000	.000	.020
SB-124	.000	1.279	1.279	.000	.000	1.279
SB-125	.000	18.924	18.924	.000	.000	18.924
SB-126	.000	.090	.090	.000	.000	.090
SC-46	.000	15.512	15.512	.000	.000	15.512

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
CC-75	.000	9.646	9.646	.000	.000	9.646
SM-153	.000	.010	.010	.000	.000	.010
SN-113	.000	31.370	31.370	.000	.000	31.370
SN-117H	.000	.100	.100	.000	.000	.100
SR-119	.000	.310	.310	.000	.000	.310
SN-119M	.000	1.330	1.330	.000	.000	1.330
SR-85	.000	4.556	4.556	.000	.000	4.556
SR-89	.000	1.069	1.069	.000	.000	1.069
SR-90	.000	29.931	29.931	.000	.000	29.931
SR-95	.000	1.630	1.630	.000	.000	1.630
TA-182	.000	.050	.050	.000	.000	.050
TC-99	.000	385.010	385.010	.000	.000	385.010
TC-99M	.000	32.302	32.302	.000	.000	32.302
TE-123M	.000	20.000	20.000	.000	.000	20.000
TH-228	.000	.076	.076	.000	.000	.076
TH-230	.000	.557	.557	.000	.000	.557
TH-232	.000	96.349	96.349	.000	.000	96.349
TH-NAT	.000	7,335.412	7,335.412	.000	.000	7,335.412
TL-201	.000	31.156	31.156	.000	.000	31.156
TL-202	.000	8.973	8.973	.000	.000	8.973
TL-204	.000	.591	.591	.000	.000	.591
U-234	.000	449.790	449.790	.000	.000	449.790
U-235	.000	88.286	88.286	.000	.000	88.286
U-236	.000	.036	.036	.000	.000	.036
U-238	.000	10,995.425	10,995.425	.000	.000	10,995.425
U-NAT	.000	1,023.569	1,023.569	.000	.000	1,023.569
W-181	.000	.010	.010	.000	.000	.010
W-188	.000	5.000	5.000	.000	.000	5.000
XE-133	.000	30.000	30.000	.000	.000	30.000
Y-88	.000	1.948	1.948	.000	.000	1.948
Y-96	.000	.110	.110	.000	.000	.110
YB-169	.000	.120	.120	.000	.000	.120
ZN-65	.000	327.115	327.115	.000	.000	327.115
ZR-95	.000	36.972	36.972	.000	.000	36.972
Totals:	7.550	1,697,905.301	1,697,912.851	54,363,071.459	69,286.234	56,130,250.544

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	T Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AG-110M	.000	.004	.004	.000	.000	.004
AM-241	.000	1.960	1.960	.000	.000	1.960
BA-133	.000	.000	.000	.000	.000	.000
C-14	.000	18.831	18.831	.000	1.650	20.481
CA-45	.000	29.285	29.285	.000	.000	29.285
CL-36	.000	3.278	3.278	.000	.000	3.278
CO-57	.000	10.780	10.780	.000	.000	10.780
CR-51	.000	64.693	64.693	.000	.000	64.693
CS-137	.000	.039	.039	.000	.000	.039
H-3	.000	779.256	779.256	1.550	.000	2.329
I-125	.000	937.731	937.731	.000	.000	937.731
I-131	.000	.007	.007	.000	.000	.007
IR-192	.000	.003	.003	.000	.000	.003
NA-22	.000	11.084	11.084	.000	.000	11.084
NI-63	.000	15.490	15.490	.000	.000	15.490
P-32	.000	65.177	65.177	.000	.000	65.177
PO-210	.000	2.300	2.300	.000	.000	2.300
RA-226	.000	.040	.040	.000	.000	.040
S-35	.000	8.983	8.983	.000	.000	8.983
SE-75	.000	17.356	17.356	.000	.000	17.356
TH-232	.000	.001	.001	.000	.000	.001
TB-NAT	.000	18.560	18.560	.000	.000	18.560
U-234	.000	6.190	6.190	.000	.000	6.190
U-235	.000	.214	.214	.000	.000	.214
U-238	.000	203.263	203.263	.000	.000	203.263
ZN-65	.000	.011	.011	.000	.000	.011
Totals:	.000	808.458	808.458	1.550	1.650	2.360

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 04 BIOLOGICAL (NON-CARCASS WASTE)						
AM-241	.000	.015	.015	.000	.000	.015
C-14	.000	350.265	350.265	.000	.000	350.265
CE-144	.000	.036	.036	.000	.000	.036
CM-243	.000	.015	.015	.000	.000	.015
CM-244	.000	.015	.015	.000	.000	.015
CO-58	.000	.814	.814	.000	.000	.814
CO-60	.000	3.543	3.543	.000	.000	3.543
CR-51	.000	.167	.167	.000	.000	.167
CS-134	.000	2.102	2.102	.000	.000	2.102
CS-137	.000	5.314	5.314	.000	.000	5.314
FE-55	.000	10.374	10.374	.000	.000	10.374
FE-59	.000	7.951	7.951	.000	.000	7.951
H-3	.000	50.682	50.682	.000	.000	50.682
I-125	.000	7.720	7.720	.000	.000	7.720
MN-54	.000	.141	.141	.000	.000	.141
NB-95	.000	.088	.088	.000	.000	.088
NI-63	.000	2.254	2.254	.000	.000	2.254
P-32	.000	.152	.152	.000	.000	.152
PU-238	.000	.015	.015	.000	.000	.015
PU-239	.000	.015	.015	.000	.000	.015
PU-240	.000	.015	.015	.000	.000	.015
PU-241	.000	.015	.015	.000	.000	.015
PU-242	.000	.109	.109	.000	.000	.109
S-35	.000	.015	.015	.000	.000	.015
SB-125	.000	2.980	2.980	.000	.000	2.980
SR-90	.000	.194	.194	.000	.000	.194
TC-99	.000	.043	.043	.000	.000	.043
TL-201	.000	.007	.007	.000	.000	.007
ZR-95	.000	.001	.001	.000	.000	.001
ZR-95	.000	.036	.036	.000	.000	.036
Totals:	.000	445.078	445.078	.000	.000	445.078



Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 08 DEWATERED RESINS						
CO-60	.000	.400	.400	.000	.000	.400
Totals:	.000	.400	.400	.000	.000	.400

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 09 SOLIDIFIED RESINS						
C-14	.000	.059	.059	.000	.000	.059
CE-141	.000	.030	.030	.000	.000	.030
CE-144	.000	.066	.066	.000	.000	.066
CO-58	.000	2.322	2.322	.000	.000	2.322
CO-60	.000	386.596	386.596	.000	.000	386.596
CR-51	.000	8.342	8.342	.000	.000	8.342
CS-134	.000	17.262	17.262	.000	.000	17.262
CS-137	.000	52.611	52.611	.000	.000	52.611
FE-55	.000	219.621	219.621	.000	.000	219.621
H-3	.000	.162	.162	.000	.000	.162
MN-54	.000	26.979	26.979	.000	.000	26.979
NI-59	.000	.214	.214	.000	.000	.214
NI-63	.000	7.684	7.684	.000	.000	7.684
PU-241	.000	.059	.059	.000	.000	.059
RU-103	.000	1.920	1.920	.000	.000	1.920
SR-89	.000	.044	.044	.000	.000	.044
SR-90	.000	.125	.125	.000	.000	.125
ZN-65	.000	14.173	14.173	.000	.000	14.173
Totals:	.000	738.269	738.269	.000	.000	738.269

Table D-4 (Continued)

Isotope	A S Activity	A B Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 10 L WPP-105 AQUEOUS LIQUID						
AG-110M	.000	910	910	.000	.000	910
AU-195	.000	495	495	.000	.000	495
BA-133	.000	4 017	4 017	.000	.000	4 017
BA-140	.000	.001	.001	.000	.000	.001
C-14	.000	8 157 279	8 157 279	.000	.000	8 157 279
CA-45	.000	1 091 133	1 091 133	.000	.000	1 091 133
CD-109	.000	52 914	52 914	.000	.000	52 914
CE-138	.000	120	120	.000	.000	120
CE-141	.000	149	149	.000	.000	149
CL-36	.000	155 658	155 658	.000	.000	155 658
CU-57	.000	351 035	351 035	.000	.000	351 035
CO-58	.000	3 048	3 048	.000	.000	3 048
CO-60	.000	62 832	62 832	.000	.000	62 832
CR-51	.000	1 058 774	1 058 774	.000	.000	1 058 774
CS-134	.000	2 654	2 654	.000	.000	2 654
CS-137	.000	36 597	36 597	.000	.000	36 597
DY-169	.000	171	171	.000	.000	171
EU-152	.000	040	040	.000	.000	040
EU-154	.000	2 006	2 006	.000	.000	2 006
EU-155	.000	921	921	.000	.000	921
FE-55	.000	139 451	139 451	.000	.000	139 451
FE-59	.000	3 556	3 556	.000	.000	3 556
GA-67	.000	70 000	70 000	.000	.000	70 000
GD-153	.000	43 462	43 462	.000	.000	43 462
GE-68	.000	19 736	19 736	.000	.000	19 736
H-3	.000	99 998 541	99 998 541	.000	.000	99 998 541
HS-203	.000	039	039	.000	.000	039
I-123	.000	80 000	80 000	.000	.000	80 000
I-124	.000	26 000	26 000	.000	.000	26 000
I-125	.000	12 339 972	12 339 972	.000	.000	12 339 972
I-129	.000	5 000	5 000	.000	.000	5 000
I-131	.000	42 887	42 887	.000	.000	42 887
IN-111	.000	74 300	74 300	.000	.000	74 300
IN-114M	.000	017	017	.000	.000	017
K-40	.000	027	027	.000	.000	027
KR-85	.000	2 940	2 940	.000	.000	2 940
HR-54	.000	5 656	5 656	.000	.000	5 656
NA-22	.000	204 159	204 159	.000	.000	204 159
NB-95	.000	282	282	.000	.000	282
NI-59	.000	033	033	.000	.000	033
NI-63	.000	1 576 098	1 576 098	.000	.000	1 576 098
P-32	.000	31 707 367	31 707 367	.000	.000	31 707 367
P-33	.000	100	100	.000	.000	100
PM-147	.000	23 445	23 445	.000	.000	23 445
PO-210	.000	001	001	.000	.000	001
PY-241	.000	104	104	.000	.000	104

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
RA-226	.060	.030	.030	.000	.000	.030
RB-23	.000	33.000	33.000	.000	.000	33.000
RB-86	.000	20.206	20.206	.000	.000	20.206
RU-103	.000	.070	.070	.000	.000	.070
S-35	.000	190.533	190.533	.000	.000	190.533
SB-125	.000	.761	.761	.000	.000	.761
SC-46	.000	1.268	1.268	.000	.000	1.268
SE-75	.000	9.119	9.119	.000	.000	9.119
SN-113	.000	13.979	13.979	.000	.000	13.979
SN-119	.000	1.000	1.000	.000	.000	1.000
SN-119M	.000	4.552	4.552	.000	.000	4.552
SR-85	.000	.425	.425	.000	.000	.425
SR-90	.000	6.641	6.641	.000	.000	6.641
TC-99	.000	42.132	42.132	.000	.000	42.132
TC-99M	.000	.001	.001	.000	.000	.001
TH-228	.000	.216	.216	.000	.000	.216
TH-232	.000	.702	.702	.000	.000	.702
TL-201	.000	.200	.200	.000	.000	.200
U-233	.000	.100	.100	.000	.000	.100
U-238	.000	.524	.524	.000	.000	.524
U-MAT	.000	715.940	715.940	.000	.000	715.940
Y-88	.000	.201	.201	.000	.000	.201
ZN-63	.000	1.000	1.000	.000	.000	1.000
ZN-65	.000	46.687	46.687	.000	.000	46.687
ZR-95	.000	.949	.949	.000	.000	.949
Totals:	.000	348,777.062	348,777.062	.000	.000	348,777.062

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 11 SORBED NON-AQUEOUS LIQUID						
CO-58	.000	.017	.017	.000	.000	.017
I-125	.000	.034	.034	.000	.000	.034
P-32	.000	4.836	4.836	.000	.000	4.836
Totals:	.000	4.857	4.857	.000	.000	4.857

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 12 NON-AQUEOUS LIQUIDS IN VIALS IN SOLVENT						
H-3	.000	1.230	1.230	.000	.000	1.230
I-125	.000	.020	.020	.000	.000	.020
P-32	.000	.450	.450	.000	.000	.450
RA-226	.000	.900	.900	.000	.000	.900
S-35	.000	.420	.420	.000	.000	.420
Totals:	.000	3.020	3.020	.000	.000	5.020



Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 13 AQUEOUS LIQUIDS IN VIALS IN SOBENT						
BA-133	.000	.001	.001	.000	.000	.001
C-14	.000	364.745	364.745	.000	.000	364.745
CA-45	.000	138.218	138.218	.000	.000	138.218
CD-109	.000	.008	.008	.000	.000	.008
CE-139	.000	.002	.002	.000	.000	.002
CO-57	.000	102.724	102.724	.000	.000	102.724
CO-60	.000	.002	.002	.000	.000	.002
CR-51	.000	.816	.816	.000	.000	.816
CS-137	.000	.002	.002	.000	.000	.002
FE-59	.000	19.398	19.398	.000	.000	19.398
H-3	.000	9,295.855	9,295.855	.000	.000	9,295.855
HG-203	.000	.002	.002	.000	.000	.002
I-125	.000	2,200.513	2,200.513	.000	.000	2,200.513
I-129	.000	.001	.001	.000	.000	.001
NA-22	.000	.340	.340	.000	.000	.340
NI-63	.000	11.962	11.962	.000	.000	11.962
P-32	.000	83.720	83.720	.000	.000	83.720
RB-86	.000	.134	.134	.000	.000	.134
S-35	.000	6,194.967	6,194.967	.000	.000	6,194.967
SE-75	.000	1.942	1.942	.000	.000	1.942
SN-113	.000	.002	.002	.000	.000	.002
SR-85	.000	.196	.196	.000	.000	.196
U-NAT	.000	.002	.002	.000	.000	.002
Y-88	.000	.002	.002	.000	.000	.002
Totals:	.000	18,415.554	18,415.554	.000	.000	18,415.554

Table D-4 (Continued)

Isotope	A S Activity	A V Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 14 ANIMAL CARCASSES IN LIME AND SORBENT						
C-14	.000	717.509	717.509	.000	.000	717.509
CA-45	.000	54.241	54.241	.000	.000	54.241
CD-109	.000	.176	.176	.000	.000	.176
CE-141	.000	3.284	3.284	.000	.000	3.284
CL-36	.000	.023	.023	.000	.000	.023
CO-57	.000	2.108	2.108	.000	.000	2.108
CR-51	.000	11.468	11.468	.000	.000	11.468
DY-159	.000	.213	.213	.000	.000	.213
FE-55	.000	.444	.444	.000	.000	.444
FE-59	.000	2.824	2.824	.000	.000	2.824
GO-153	.000	86.043	86.043	.000	.000	86.043
H-3	.000	3.405.110	3.405.110	.000	.000	3.405.110
HG-203	.000	.192	.192	.000	.000	.192
I-123	.000	10.000	10.000	.000	.000	10.000
I-125	.000	114.717	114.717	.000	.000	114.717
I-131	.000	14.519	14.519	.000	.000	14.519
IN-111	.000	7.710	7.710	.000	.000	7.710
MN-54	.000	.056	.056	.000	.000	.056
NA-22	.000	.042	.042	.000	.000	.042
NB-85	.000	5.553	5.553	.000	.000	5.553
P-32	.000	2.531	2.531	.000	.000	2.531
RU-103	.000	87.452	87.452	.000	.000	87.452
S-35	.000	34.434	34.434	.000	.000	34.434
SC-46	.000	5.072	5.072	.000	.000	5.072
SE-75	.000	1.656	1.656	.000	.000	1.656
SM-113	.000	1.532	1.532	.000	.000	1.532
SR-85	.000	1.809	1.809	.000	.000	1.809
TC-89	.000	1.301	1.301	.000	.000	1.301
TC-99M	.000	1.204	1.204	.000	.000	1.204
TL-201	.000	.125	.125	.000	.000	.125
XE-133	.000	.004	.004	.000	.000	.004
Y-88	.000	.789	.789	.000	.000	.789
Totals:	.000	4,574.161	4,574.161	.000	.000	4,574.161

Table D-4 (Continued)

Isotope	A S Activity	A V Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 15 GAS						
KR-85	.000	147.044	147.044	.000	.000	147.044
RA-226	.000	3.240	3.240	.000	.000	3.240
Totals:	.000	150.284	150.284	.000	.000	150.284

Table D-4 (Continued)

Isotope	A S Activity	A D Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
AG-110	.000	175.003	175.003	.000	.000	175.003
AG-110H	.000	33.640	33.640	.000	.000	33.640
AM-241	.000	.372	.372	.000	.000	.372
AU-195	.000	2.173	2.173	.000	.000	2.173
BA-133	.000	.866	.866	.000	.000	.866
BI-207	.000	.001	.001	.000	.000	.001
C-14	.000	14,926.757	14,926.757	.000	.000	14,926.757
CA-45	.000	172.634	172.634	.000	.000	172.634
CA-47	.000	.090	.090	.000	.000	.090
CD-109	.000	33.297	33.297	.000	.000	33.297
CE-134	.000	.076	.076	.000	.000	.076
CE-141	.000	4.019	4.019	.000	.000	4.019
CE-144	.000	68.510	68.510	.000	.000	68.510
CF-252	.000	.002	.002	.000	.000	.002
CL-38	.000	20.715	20.715	.000	.000	20.715
CM-242	.000	.416	.416	.000	.000	.416
CO-56	.000	.590	.590	.000	.000	.590
CO-57	.000	337.980	337.980	.000	.000	337.980
CO-58	.000	479.749	479.749	.000	.000	479.749
CO-60	.000	1,666.720	1,666.720	.000	.000	1,666.720
CR-51	.000	1,482.077	1,482.077	.000	.000	1,482.077
CR-56	.000	.007	.007	.000	.000	.007
CS-134	.000	255.263	255.263	.000	.000	255.263
CS-137	.000	513.178	513.178	.000	.000	513.178
CS-144	.000	1,569	1,569	.000	.000	1,569
CU-67	.000	.008	.008	.000	.000	.008
EU-152	.000	3.180	3.180	.000	.000	3.180
EU-154	.000	.109	.109	.000	.000	.109
EU-155	.000	.004	.004	.000	.000	.004
FE-55	.000	2,571.599	2,571.599	.000	.000	2,571.599
FE-59	.000	47.587	47.587	.000	.000	47.587
GA-67	.000	5.101	5.101	.000	.000	5.101
GA-68	.000	.002	.002	.000	.000	.002
GD-153	.000	1.778	1.778	.000	.000	1.778
GE-68	.000	1.790	1.790	.000	.000	1.790
H-3	.000	128,165.804	128,165.804	.000	.000	128,165.804
HF-181	.000	.433	.433	.000	.000	.433
HG-203	.000	.390	.390	.000	.000	.390
I-121	.000	.001	.001	.000	.000	.001
I-123	.000	14.715	14.715	.000	.000	14.715
I-125	.000	13,133.740	13,133.740	.000	.000	13,133.740
I-129	.000	1.741	1.741	.000	.000	1.741
I-131	.000	1,100.428	1,100.428	.000	.000	1,100.428
IN-111	.000	33.170	33.170	.000	.000	33.170
IN-114	.000	.255	.255	.000	.000	.255
IR-192	.000	1.202	1.202	.000	.000	1.202

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
KR-85	.000	4.967	4.967	.000	.000	4.967
KN-54	.000	95.061	95.061	.000	.000	95.061
MO-99	.000	.002	.002	.000	.000	.002
NA-22	.000	66.427	66.427	.000	.000	66.427
NA-24	.000	.002	.002	.000	.000	.002
NB-94	.000	.015	.015	.000	.000	.015
NB-95	.000	148.830	148.830	.000	.000	148.830
NI-63	.000	455.179	455.179	.000	.000	455.179
NP-237	.000	131	131	.000	.000	131
P-32	.000	8.444.307	8.444.307	.000	.000	8.444.307
PB-210	.000	.042	.042	.000	.000	.042
PM-147	.000	102.779	102.779	.000	.000	102.779
PO-208	.000	.010	.010	.000	.000	.010
PO-210	.000	2.534	2.534	.000	.000	2.534
PU-238	.000	.755	.755	.000	.000	.755
PU-239	.000	1.145	1.145	.000	.000	1.145
P-241	.000	97.649	97.649	.000	.000	97.649
RA-226	.000	28.122	28.122	.000	.000	28.122
RB-86	.000	20.807	20.807	.000	.000	20.807
RU-103	.000	24.021	24.021	.000	.000	24.021
RU-106	.000	137.888	137.888	.000	.000	137.888
S-35	.000	8.710.657	8.710.657	.000	.000	8.710.657
SB-124	.000	729	729	.000	.000	729
SB-125	.000	2.855	2.855	.000	.000	2.855
SC-46	.000	20.617	20.617	.000	.000	20.617
SC-50	.000	.010	.010	.000	.000	.010
SE-75	.000	6.900	6.900	.000	.000	6.900
SN-111	.000	.010	.010	.000	.000	.010
SN-113	.000	12.586	12.586	.000	.000	12.586
SR-65	.000	9.263	9.263	.000	.000	9.263
SR-89	.000	356.227	356.227	.000	.000	356.227
SR-90	.000	33.100	33.100	.000	.000	33.100
SR-95	.000	.002	.002	.000	.000	.002
TA-182	.000	1.672	1.672	.000	.000	1.672
TC-89	.000	36.242	36.242	.000	.000	36.242
TC-98M	.000	147.519	147.519	.000	.000	147.519
TE-123	.000	39.976	39.976	.000	.000	39.976
TH-227	.000	.010	.010	.000	.000	.010
TH-232	.000	4.094	4.094	.000	.000	4.094
TH-NAT	.000	1.159	1.159	.000	.000	1.159
TI-201	.000	13.088	13.088	.000	.000	13.088
TL-204	.000	1.888	1.888	.000	.000	1.888
U-232	.000	.001	.001	.000	.000	.001
U-233	.000	.600	.600	.000	.000	.600
U-234	.000	5.608	5.608	.000	.000	5.608
U-235	.000	3.353	3.353	.000	.000	3.353
U-236	.000	74.249	74.249	.000	.000	74.249
U-NAT	.000	2.372.297	2.372.297	.000	.000	2.372.297
W-181	.000	.020	.020	.000	.000	.020

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
XE-127	.000	7.448	7.448	.000	.000	7.448
XE-133	.000	23.750	23.750	.000	.000	23.750
Y-88	.000	.007	.007	.000	.000	.007
Y-90	.000	3.580	3.580	.000	.000	3.580
YB-169	.000	.050	.050	.000	.000	.050
ZN-65	.000	177.993	177.993	.000	.000	177.993
ZR-80	.000	.431	.431	.000	.000	.431
ZR-95	.000	92.106	92.106	.000	.000	92.106
Totals:	.000	187,059.610	187,059.610	.000	.000	187,059.610



Table D-4 (Continued)

Isotope	A S Activity	A V Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 22 NON-COMPACTED DRY ACTIVE WASTE						
AG-110M	.000	.229	.229	.000	.000	.229
C-14	.000	126.465	126.465	.000	.000	126.465
CO-60	.000	1.085	1.085	.000	.000	1.085
CS-134	.000	6.338	6.338	.000	.000	6.338
CS-137	.000	.020	.020	.000	.000	.020
GD-153	.000	2,430.021	2,430.021	.000	.000	2,430.021
H-3	.000	38.709	38.709	.000	.000	38.709
I-125	.000	125.000	125.000	.000	.000	125.000
RR-85	.000	7.580	7.580	.000	.000	7.580
NR-94	.000	.010	.010	.000	.000	.010
NI-63	.000	.644	.644	.000	.000	.644
P-32	.000	.217	.217	.000	.000	.217
PO-210	.000	.001	.001	.000	.000	.001
PU-238	.000	.001	.001	.000	.000	.001
PU-239	.000	3.022	3.022	.000	.000	3.022
RA-226	.000	6.970	6.970	.000	.000	6.970
RA-228	.000	.547	.547	.000	.000	.547
S-35	.000	.16	.16	.000	.000	.16
SR-90	.000	.003	.003	.000	.000	.003
TC-99	.000	6.970	6.970	.000	.000	6.970
TH-228	.000	.010	.010	.000	.000	.010
TH-232	.000	180.285	180.285	.000	.000	180.285
TR-NAT	.000	21.000	21.000	.000	.000	21.000
U-233	.000	244.244	244.244	.000	.000	244.244
U-234	.000	194.263	194.263	.000	.000	194.263
U-235	.000	3.791	3.791	.000	.000	3.791
U-238	.000	10.590	10.590	.000	.000	10.590
Y-90	.000	.007	.007	.000	.000	.007
ZN-65	.000	.007	.007	.000	.000	.007
Totals:	.000	3,432.007	3,432.007	.000	25.000	3,457.007

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 23 CARTRIDGE-TYPE FILTER MEDIA						
AG-110	.000	.046	.046	.000	.000	.046
C-14	.000	280.725	280.725	.000	.000	280.725
CD-108	.000	169.380	169.380	.000	.000	169.380
CD-113M	.000	111.310	111.310	.000	.000	111.310
CO-57	.000	67.600	67.600	.000	.000	67.600
CO-58	.000	.948	.948	.000	.000	.948
CO-60	.000	1.835	1.835	.000	.000	1.835
CR-51	.000	.211	.211	.000	.000	.211
H-3	.000	12,353.000	12,353.000	.000	.000	12,353.000
I-125	.000	1.000	1.000	.000	.000	1.000
MN-54	.000	3.316	3.316	.000	.000	3.316
SB-124	.000	3.490	3.490	.000	.000	3.490
SB-125	.000	.026	.026	.000	.000	.026
TH-NAT	.000	376.837	376.837	.000	.000	376.837
U-234	.000	167.749	167.749	.000	.000	167.749
U-235	.000	5.817	5.817	.000	.000	5.817
U-238	.000	4.974	4.974	.000	.000	4.974
ZN-65	.000	1.425	1.425	.000	.000	1.425
Totals:	.000	13,549.869	13,549.889	.000	.000	13,549.889

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 26 SOLIDIFIED CHELATES						
C-14	.000	3.010	3.010	.000	.000	3.010
CO-60	.000	480.000	480.000	.000	.000	480.000
CS-134	.000	14.500	14.500	.000	.000	14.500
CS-137	.000	120.000	120.000	.000	.000	120.000
FE-55	.000	401.000	401.000	.000	.000	401.000
H-3	.000	.534	.534	.000	.000	.534
I-129	.000	.132	.132	.000	.000	.132
MN-54	.000	1.149	1.149	.000	.000	1.149
NI-63	.000	30.600	30.600	.000	.000	30.600
SR-90	.000	.230	.230	.000	.000	.230
TC-99	.000	.133	.133	.000	.000	.133
Totals:	.000	1,051.288	1,051.288	.000	.000	1,051.288

Table D-4 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 27 SOLIDIFIED OIL						
AM-241	.000	.002	.002	.000	.000	.002
C-14	.000	.030	.030	.000	.000	.030
CE-144	.000	.008	.008	.000	.000	.008
CM-243	.000	.002	.002	.000	.000	.002
CM-244	.000	.002	.002	.000	.000	.002
CO-58	.000	.210	.210	.000	.000	.210
CO-60	.001	.919	.920	.000	.000	.920
CS-134	.000	.544	.544	.000	.000	.544
CS-137	.001	1.377	1.378	.000	.000	1.378
FE-55	.000	2.689	2.689	.000	.000	2.689
H-3	.000	.032	.032	.000	.000	.032
KR-85	.000	27.400	27.400	.000	.000	27.400
MR-54	.000	.036	.036	.000	.000	.036
NB-95	.000	.022	.022	.000	.000	.022
NI-63	.000	.584	.584	.000	.000	.584
PU-238	.000	.002	.002	.000	.000	.002
PU-239	.000	.002	.002	.000	.000	.002
PU-240	.000	.002	.002	.000	.000	.002
PU-241	.000	.029	.029	.000	.000	.029
PU-242	.000	.002	.002	.000	.000	.002
SB-125	.000	.050	.050	.000	.000	.050
SR-90	.000	.012	.012	.000	.000	.012
TC-99	.000	.002	.002	.000	.000	.002
U-235	.000	.170	.170	.000	.000	.170
U-238	.000	9.685	9.685	.000	.000	9.685
U-DEP	.000	36.600	36.600	.000	.000	36.600
U-NAT	.000	49.200	49.200	.000	.000	49.200
ZR-95	.000	.010	.010	.000	.000	.010
Totals:	.002	129.623	129.625	.000	.000	129.625

Table D-4 (Continued)

Factors	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Where Description: 99 OTHER						
H-	.000	38.862	38.862	.000	.000	38.862
RR-85	.000	63,500.100	63,500.100	.000	.000	63,500.100
Total:	.000	63,538.962	63,538.962	.000	.000	63,538.962
GRAND TOTALS:	7.552	3,148,234.105	3,148,241.657	55,913,071.459	70,941.234	59,132,264.350



Table D-5. Richland 1989 Radionuclide Distributions (mCi) for Utilities

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 02 DRY SOLID						
AG-108M	.000	.000	.000	.000	1.000	1.000
AG-110M	.000	383.419	383.419	179.900	154.425	716.844
AM-241	.000	.088	.088	.141	1.609	1.838
EA-133	.000	.016	.016	.000	.000	.016
EA-140	.000	85.826	85.826	.000	12.901	98.727
C-14	.000	508.009	508.009	132.000	21.081	661.090
CD-109	.000	.455	.455	.000	.000	.455
CE-138	.000	.005	.005	.000	.000	.005
CE-141	.000	105.465	105.465	.230	12.052	117.747
CE-144	.000	417.080	417.080	3.380	308.774	729.234
CL-36	.000	.002	.002	.000	.000	.002
CM-242	.000	.625	.625	.024	38.268	36.915
CM-243	.000	.002	.002	.000	3.682	3.684
CM-244	.000	.069	.069	.110	.001	.180
CO-57	.000	37.757	37.757	.420	619.517	657.694
CO-58	.000	15,381.610	15,381.610	151.000	14,030.973	29,543.583
CO-60	.000	186,580.655	186,580.655	2,490.000	40,493.000	229,563.655
CR-51	.000	3,679.391	3,679.391	.553	6,041.726	9,721.670
CS-134	.000	3,843.525	3,843.525	2,530.000	310.580	6,684.105
CS-136	.000	1.771	1.771	.000	11.691	13.462
CS-137	.000	4,428.954	4,428.954	9,940.000	1,184.800	15,553.754
KU-152	.000	.001	.001	.000	.000	.001
KU-155	.000	.278	.278	.000	.000	.278
FE-55	.000	175,763.730	175,763.730	7,270.000	126,390.000	309,423.730
FE-59	.000	477.953	477.953	.000	526.396	1,004.349
H-3	.000	5,014.784	5,014.784	159.000	2,798.250	7,972.034
HG-203	.000	.001	.001	.000	.000	.001
I-129	.000	.873	.873	.000	3.546	4.419
I-131	.000	196.231	196.231	.000	22.200	218.431
LA-140	.000	96.882	96.882	.000	.000	96.882
MN-54	.000	9,738.538	9,738.538	51.800	3,280.600	13,071.138
NB-95	.000	4,432.679	4,432.679	5.870	3,946.162	8,384.711
NI-59	.000	9.452	9.452	1.240	16.490	27.182
NI-63	.000	12,658.500	12,658.500	5,650.000	13,891.000	32,199.500
PH-147	.000	2.665	2.665	.000	.000	2.665
PU-238	.000	.365	.365	.202	4.985	5.552
PU-239	.000	.274	.274	.000	3.467	3.741
PU-240	.000	.057	.057	.000	.001	.058
PU-241	.000	30.797	30.797	14.500	393.050	438.347
PU-242	.000	.000	.000	.000	.003	.003
RA-226	.000	.200	.200	.000	.000	.200
RU-103	.000	7.449	7.449	.630	99.686	107.765
RU-106	.000	7.292	7.292	2.770	34.670	44.732
SB-124	.000	121.175	121.175	.000	33.949	155.124
SB-125	.000	843.206	843.206	222.000	519.310	1,584.516
SN-113	.000	148.422	148.422	.000	6.050	154.472

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Table D-5 (Continued)

ISCOPE	A S Activity	A U Activity	A Activity	City	C S Activity	Total Activity
SR-85	.000	.001	.001	.000	.000	.001
SR-89	.000	.635	.635	.000	286.243	286.878
SR-90	.000	172.074	172.074	.000	145.413	317.487
TC-89	.000	1.354	1.354	9.750	7.089	18.203
TR-125M	.000	169.049	169.049	51.000	.000	220.049
TH-228	.000	.000	.000	.000	.023	.023
U-233	.000	.007	.007	.000	.000	.007
H-234	.000	.045	.045	.000	.001	.046
U-235	.000	.045	.045	.000	.000	.045
U-238	.000	.052	.052	.000	.001	.053
XE-131M	.000	4.671	4.671	.000	.000	4.671
Y-86	.000	.008	.008	.000	.000	.008
ZN-65	.000	99.251.009	99.251.009	.020	23.461	98.274.490
ZR-95	.000	2.120.995	2.120.995	3.620	2.248.704	4.372.719
Totals:	.000	526.706.471	526.706.471	25.813.860	217.925.038	773.500.169

Table D-5 (Continued)

Isotope	A E Activity	A H Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 03 SOLIDIFIED LIQUIDS						
AG-110H	.000	42.300	42.300	.000	.000	42.300
BA-140	.000	.728	.728	.000	.000	.728
C-14	.000	22.590	22.590	.000	.000	22.590
CE-141	.000	.225	.225	.000	.000	.225
CO-57	.000	.002	.002	.000	.000	.002
CO-58	.000	3.882	3.882	.000	.000	3.882
CO-60	.000	4.285	4.285	.000	.000	4.285
CS-51	.000	590.700	590.700	.000	.000	590.700
CS-134	.000	1.125	1.125	.000	.000	1.125
CS-137	.000	1.868	1.868	.000	.000	1.868
FE-55	.000	4.425	4.425	.000	.000	4.425
H-3	.000	4.108	4.108	.000	.000	4.108
I-129	.000	.004	.004	.000	.000	.004
I-131	.000	6.298	6.298	.000	.000	6.298
LA-140	.000	838	838	.000	.000	838
MN-54	.000	608.332	608.332	.000	.000	608.332
NB-95	.000	36.101	36.101	.000	.000	36.101
NI-63	.000	2,064.731	2,064.731	.000	.000	2,064.731
SB-125	.000	38.690	38.690	.000	.000	38.690
SR-90	.000	.241	.241	.000	.000	.241
TC-99	.000	.095	.095	.000	.000	.095
XE-133M	.000	.005	.005	.000	.000	.005
ZR-65	.000	6.430	6.430	.000	.000	6.430
ZR-95	.000	23.800	23.800	.000	.000	23.800
Totals:	.000	29,559.982	29,559.982	.000	.000	29,559.982

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 08 DEWATERED RESINS						
AG-110M	.000	7,261.183	7,261.183	.000	5,150.200	12,411.383
AM-241	.000	.876	.875	.056	18.752	19.783
BA-140	.000	126.255	126.255	296.000	.000	422.255
BE-7	.000	3.870	3.870	.000	.000	3.870
C-14	.000	3,860.690	3,860.690	489.983	3,771.708	6,122.381
CE-141	.000	2.741	2.741	2.270	.000	5.011
CE-144	.000	947.355	947.355	24.200	12,840.000	13,811.555
CM-242	.000	1.532	1.532	35.636	.006	37.174
CM-243	.000	.089	.089	.022	.000	.111
CM-244	.000	.060	.060	.022	.000	.082
CO-57	.000	33.148	33.148	860.042	1,434.000	2,327.190
CO-58	.000	41,360.864	41,360.864	121,538.710	143,466.077	306,365.651
CO-60	.000	243,120.556	243,120.556	242,276.600	222,410.300	707,807.456
CO-60	.000	74,895.613	74,895.613	28,140.000	.000	103,035.613
CR-51	.000	17,732.895	17,732.895	681,618.000	187,506.000	886,856.895
CS-134	.000	4.835	4.835	265.000	.000	269.835
CS-136	.000	23,786.677	23,786.677	1,209,350.000	2,515,935.500	3,749,072.177
CS-137	.000	.000	.000	.000	2.930	2.930
CS-144	.000	.532	.532	.000	.000	.532
EU-154	.000	5.053	5.053	.000	.000	5.053
EU-155	.000	127,170.738	127,170.738	175,464.000	117,137.600	419,772.338
FE-56	.000	6,470.635	6,470.635	1,125.000	.000	7,595.635
FE-59	.000	10,680.957	10,680.957	1,721.010	149.806	12,551.773
H-3	.000	.006	.006	.000	.000	.006
HF-181	.000	23.486	23.486	3.239	7.426	34.151
I-129	.000	546.813	546.813	1,230.000	.000	1,776.813
I-131	.000	137.311	137.311	341.000	.000	478.311
LA-140	.000	96,350.158	96,350.158	51,533.000	12,498.200	160,381.358
MN-54	.000	42,762.290	42,762.290	9,788.750	78.400	52,629.440
NB-95	.000	9.095	9.095	969.000	391.000	1,369.095
NI-59	.000	9,071.000	9,071.000	136,835.800	234,678.600	380,585.400
NI-63	.000	.082	.082	.002	.000	.084
NP-237	.000	.000	.000	12.900	.000	12.900
NP-239	.000	1,773.575	1,773.575	.000	656,572.000	658,345.575
PM-147	.000	1.450	1.450	1.038	24.625	27.113
PU-238	.000	4.167	4.167	2.432	67.928	74.527
PU-239	.000	1.615	1.615	.260	22.438	24.313
PU-240	.000	213.891	213.891	517.120	1,703.160	2,434.171
PU-241	.000	.022	.022	.002	.000	.024
PU-242	.000	240.432	240.432	.000	17,792.000	18,032.432
RU-106	.000	2,447.421	2,447.421	48,320.350	3,840.000	54,607.771
SB-124	.000	3,810.115	3,810.115	7,069.200	10,406.660	21,285.975
SB-125	.000	426.653	426.653	236.000	.000	662.653
SN-113	.000	8.443	8.443	1,028.800	274.101	1,311.344
SK-89	.000	1,216.810	1,216.810	3,301.570	4,827,174.450	4,831,692.830
SK-90	.000	33.891	33.891	4.513	1,469.044	1,507.448
TC-99	.000					

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Table D-5 (Continued)

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Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
TE-125M	.000	1,193.964	1,193.954	.000	1,922.060	3,116.024
U-233	.000	.013	.013	.000	.000	.013
U-234	.000	.041	.041	.000	.135	.176
U-235	.000	.007	.007	.000	.026	.033
U-238	.000	.025	.025	.000	.184	.209
XE-131M	.000	1.760	1.760	20.600	.000	22.360
ZN-65	.000	192,795.388	192,795.388	333,517.100	.000	526,312.488
ZR-95	.000	7,928.275	7,928.275	5,964.000	14.200	13,906.475
Totals:	.000	918,465.452	918,465.452	3,063,903.227	8,978,759.516	12,961,128.193

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 09 SOLIDIFIED RESINS						
AM-241	.000	.000	.000	.752	.000	.752
C-14	.000	83.446	83.446	1,174.309	.000	1,257.755
CM-242	.000	.000	.000	.494	.000	.494
CM-243	.000	.000	.000	.006	.000	.006
CM-244	.000	.000	.000	.932	.000	.932
CO-57	.000	.000	.000	792.733	.000	792.733
CO-58	.000	132.213	132.213	25,115.125	.000	25,247.338
CO-60	.000	3,096.146	3,096.146	112,212.381	.000	115,308.527
CR-51	.000	36.991	36.991	.000	.000	36.991
CS-134	.000	.601	.601	113,835.650	.000	113,836.251
CS-137	.000	290.429	290.429	254,567.809	.000	254,858.238
FE-55	.000	2,811.762	2,811.762	48,204.276	.000	51,016.038
H-3	.000	116.155	116.155	1,354.074	.000	1,470.229
I-129	.000	.167	.167	.105	.000	.272
MN-54	.000	1,957.260	1,957.260	15,590.699	.000	17,547.959
NJ-59	.000	.000	.000	488.185	.000	488.185
KI-63	.000	74.714	74.714	95,843.092	.000	95,917.806
NP-237	.000	.000	.000	.001	.000	.001
PU-238	.000	.000	.000	1.242	.000	1.242
PU-239	.000	.042	.042	1.449	.000	1.491
PU-240	.000	.000	.000	.108	.000	.108
PU-241	.000	.000	.000	79.064	.000	79.064
PU-242	.000	.000	.000	.001	.000	.001
SR-89	.000	.000	.000	31.832	.000	31.832
SR-90	.000	.922	.922	636.045	.000	636.967
TC-99	.000	.345	.345	1.116	.000	1.461
ZN-65	.000	29.248	29.248	.000	.000	29.248
Totals:	.000	8,630.441	8,630.441	669,931.480	.000	678,561.921

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Table D-5 (Continued)



Table D-5 (Continued)

Isotope	A B Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 11 SORBED NON-AQUEOUS LIQUID						
AG-110M	.244	.000	.244	.000	.000	.244
AM-241	.016	.000	.016	.000	.000	.016
C-14	1.460	.000	1.460	.000	.000	1.460
CE-144	.088	.000	.088	.000	.000	.088
CM-242	.001	.003	.004	.000	.000	.004
CM-243	.002	.000	.002	.000	.000	.002
CM-244	.002	.000	.002	.000	.000	.002
CU-57	.020	.000	.020	.000	.000	.020
CO-58	2.210	.000	2.210	.000	.000	2.210
CO-60	300.000	4.635	304.635	.000	.000	304.635
CS-134	3.430	.034	3.464	.000	.000	3.464
CS-137	131.000	134	131.134	.000	.000	131.134
FE-55	75.400	3.161	78.561	.000	.000	78.561
H-3	6.090	.000	6.090	.000	.000	6.090
HN-54	.103	.055	.158	.000	.000	.158
NI-59	4.950	.000	4.950	.000	.000	4.950
NI-63	309.000	.050	309.050	.000	.000	309.050
PU-238	.017	.000	.017	.000	.000	.017
PU-239	.009	.000	.009	.000	.000	.009
PU-240	.009	.000	.009	.000	.000	.009
PU-241	.703	.003	.706	.000	.000	.706
SB-125	.000	.078	.078	.000	.000	.078
SR-90	.115	.003	.118	.000	.000	.118
Totals:	834.849	8.156	843.005	.000	.000	843.005



Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 20 EVAPORATOR BOTTOMS						
AG-110	.000	315.833	315.833	.000	.000	315.833
AG-110M	.000	246.583	246.583	.000	.000	246.583
AM-241	.000	.151	.151	.000	.000	.151
C-14	.000	294.587	294.587	.000	.000	294.587
CE-144	.000	7.443	7.443	.000	.000	7.443
CM-242	.000	1.666	1.666	.000	.000	1.666
CM-243	.000	.069	.069	.000	.000	.069
CM-244	.000	.336	.336	.000	.000	.336
CO-57	.000	128.961	128.961	.000	.000	128.961
CO-58	.000	6.753.798	6.753.798	.000	.000	6.753.798
CO-60	.000	5.139.411	5.139.411	.000	.000	5.139.411
CR-51	.000	59.707	59.707	.000	.000	59.707
CS-134	.000	2.701.662	2.701.662	.000	.000	2.701.662
CS-137	.000	289.000	289.000	.000	.000	289.000
CS-137	.000	5.155.887	5.155.887	.000	.000	5.155.887
FE-55	.000	5.828.178	5.828.178	.000	.000	5.828.178
FE-59	.000	16.124	16.124	.000	.000	16.124
H-3	.000	17.812.009	17.812.009	.000	.000	17.812.009
I-129	.000	2.201	2.201	.000	.000	2.201
I-131	.000	.357	.357	.000	.000	.357
MN-54	.000	582.900	582.900	.000	.000	582.900
NB-95	.000	316.325	316.325	.000	.000	316.325
NB-97	.000	10.437	10.437	.000	.000	10.437
NI-59	.000	8.965	8.965	.000	.000	8.965
NI-63	.000	2.576.002	2.576.002	.000	.000	2.576.002
NI-63	.000	.005	.005	.000	.000	.005
NI-237	.000	.442	.442	.000	.000	.442
PU-238	.000	.176	.176	.000	.000	.176
PU-239	.000	14.842	14.842	.000	.000	14.842
PU-241	.000	.167	.167	.000	.000	.167
PU-242	.000	1.230.291	1.230.291	.000	.000	1.230.291
SB-124	.000	127.508	127.508	.000	.000	127.508
SB-126	.000	.535	.535	.000	.000	.535
SE-75	.000	16.200	16.200	.000	.000	16.200
SN-113	.000	3.611	3.611	.000	.000	3.611
SR-89	.000	21.134	21.134	.000	.000	21.134
SM-90	.000	41.897	41.897	.000	.000	41.897
SR-92	.000	28.322	28.322	.000	.000	28.322
TC-89	.000	5.534	5.534	.000	.000	5.534
TE-125H	.000	.010	.010	.000	.000	.010
XE-131M	.000	29.976	29.976	.000	.000	29.976
ZN-65	.000	75.543	75.543	.000	.000	75.543
ZR-95	.000	10.437	10.437	.000	.000	10.437
ZR-97	.000			.000	.000	
Totals:	.000	49,855.223	49,855.223	.000	.000	49,855.223

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 21 COMPACTED DRY ACTIVE WASTE						
AG-110	.000	829.976	829.976	.000	.000	829.976
AG-110H	.000	307.640	307.640	.000	.000	307.640
AM-241	.000	1.044	1.044	.000	2.802	3.846
BA-140	.000	38.193	38.193	.000	.000	38.193
BE-7	.000	4.232	4.232	.000	.000	4.232
C-14	.000	1.686.280	1,686.280	.000	.022	1,686.312
CK-141	.000	22.214	22.214	.000	.000	22.214
CK-144	.000	305.551	305.551	.000	1,455.400	1,760.951
CM-242	.000	2.233	2.233	.000	.001	2.234
CM-243	.000	.854	.854	.000	.000	.854
CM-244	.000	.090	.090	.000	.000	.090
CO-57	.000	17.750	17.750	.000	.000	17.750
CO-58	.000	4,449.838	4,449.838	.000	.000	4,449.838
CO-60	.000	9,810.926	9,810.926	.000	708.140	10,520.066
CK-51	.000	2,835.347	2,835.347	.000	.000	2,835.347
CS-134	.000	1,967.510	1,967.510	.000	14,175.000	16,142.510
CS-137	.000	6.162	6.162	.000	.000	6.162
EP-155	.000	8,579.786	8,579.786	.000	689,280.000	697,859.786
FE-55	.000	17,008.468	17,008.468	.000	3,26.221	20,268.689
FE-59	.000	258.066	258.066	.000	.000	258.066
H-3	.000	1,334.652	1,334.652	.000	4.167	1,338.819
I-129	.000	.548	.548	.000	3.045	3.593
I-131	.000	150.325	150.325	.000	.000	150.325
I-133	.000	10.447	10.447	.000	.000	10.447
LA-140	.000	45.018	45.018	.000	.000	45.018
MO-99	.000	2,213.971	2,213.971	.000	.000	2,213.971
MO-99	.000	11.314	11.314	.000	.000	11.314
NB-94	.000	2.675	2.675	.000	.000	2.675
NB-95	.000	1,517.479	1,517.479	.000	.000	1,517.479
NB-97	.000	39.003	39.003	.000	.000	39.003
NI-59	.000	2.117	2.117	.000	.000	2.117
NI-63	.000	2,594.008	2,594.008	.000	.000	2,594.008
NF-237	.000	.323	.323	.000	.000	.323
PM-147	.000	3.879	3.879	.000	.000	3.879
FU-238	.000	.987	.987	.000	1.281	2.268
FU-239	.000	1.212	1.212	.000	14.842	16.054
FU-240	.000	.058	.058	.000	3.944	4.002
FU-241	.000	85.740	85.740	.000	187.440	253.180
FU-242	.000	.452	.452	.000	.000	.452
KH-106	.000	132.471	132.471	.000	.000	132.471
RU-103	.000	233.932	233.932	.000	.000	233.932
RU-106	.000	6.960	6.960	.000	5,429.500	5,436.460
SB-122	.000	3.448	3.448	.000	.000	3.448
SB-124	.000	2,834.878	2,834.878	.000	.000	2,834.878
SB-125	.000	165.751	165.751	.000	4,430.100	4,595.851

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B E Activity	C S Activity	Total Activity
SN-113	.000	63.410	63.410	.000	.000	63.410
SR-89	.000	78.648	78.648	.000	.000	78.648
SR-90	.000	73.527	73.527	.000	314.840	314.913.527
SR-92	.000	17.958	17.958	.000	.000	17.958
TC-99	.000	360.218	360.218	.000	216.940	577.158
TC-99M	.000	.995	.995	.000	.000	.995
TK-12m	.000	.290	.290	.000	1.019.200	1.019.490
U-234	.000	.007	.007	.000	.152	.159
U-235	.000	.007	.007	.000	.009	.016
U-238	.000	.007	.007	.000	.316	.323
ZN-65	.000	764.981	764.981	.000	.000	764.981
ZR-90	.000	.499	.499	.000	.000	.499
ZR-95	.000	534.043	534.043	.000	.000	534.043
ZR-97	.000	39.001	39.001	.000	.000	39.001
Totals:	.000	61.363.820	61.363.820	.000	1.068.295.522	1.129.659.342

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 22 NON-COMPACTED DRY ACTIVE WASTE						
AG-110	.000	88.092	88.092	.000	.000	88.092
AG-110M	.000	76.686	76.686	.000	.000	76.686
AM-241	.000	.125	.125	.000	.000	.125
BA-140	.000	.156	.156	.000	.000	.156
C-14	.000	234.556	234.556	.000	84.000	318.556
CE-141	.000	45.985	45.985	.000	.000	45.985
CE-144	.000	138.397	138.397	.000	151.000	289.397
CH-242	.000	.283	.283	.000	.000	.283
CH-243	.000	.022	.022	.000	.000	.022
CM-244	.000	.027	.027	.000	.000	.027
CO-57	.000	1.033	1.033	.000	.000	1.033
CO-58	.000	1.239.054	1.239.054	.000	159.000	1.398.054
CO-60	.000	4.793.573	4.793.573	.000	3,206.000	7,999.573
CR-51	.000	526.282	526.282	.000	.000	526.282
CS-134	.000	372.277	372.277	.000	37.000	409.277
CS-136	.000	.089	.089	.000	.000	.089
CS-137	.000	2.131.272	2.131.272	.000	309.000	2.440.272
EU-155	.000	.023	.023	.000	.000	.023
FE-55	.000	8.859.061	8.859.061	.000	14,940.000	23,799.061
FE-59	.000	83.072	83.072	.000	.000	83.072
H-3	.000	888.108	888.108	.000	434.000	1,322.108
I-129	.000	.495	.495	.000	.000	.495
I-131	.000	10.469	10.469	.000	.000	10.469
HN-54	.000	547.292	547.292	.000	95.000	642.292
NB-95	.000	260.598	260.598	.000	.000	260.598
NB-97	.000	.141	.141	.000	.000	.141
NI-59	.000	.005	.005	.000	.000	.005
NI-63	.000	1,359.957	1,359.957	.000	3,816.000	5,175.957
Np-237	.000	.007	.007	.000	.000	.007
PM-147	.000	.335	.335	.000	.000	.335
PU-238	.000	.539	.539	.000	4.000	4.539
PU-239	.000	.477	.477	.000	4.000	4.477
PU-240	.000	.501	.501	.000	.000	.501
PU-241	.000	95.151	95.151	.000	439.000	534.151
PU-242	.000	.007	.007	.000	.000	.007
RA-226	.000	.340	.340	.000	.000	.340
RH-106	.000	32.858	32.858	.000	.000	32.858
RU-103	.000	143.744	143.744	.000	.000	143.744
RU-106	.000	170.819	170.819	.000	812.000	982.819
SB-124	.000	909.652	909.652	.000	.000	909.652
SB-125	.000	6.603	6.603	.000	128.000	132.603
SN-113	.000	.283	.283	.000	.000	.283
SR-89	.000	153.643	153.643	.000	.000	153.643
SK-90	.000	21.468	21.468	.000	26.000	47.468
SR-92	.000	32.114	32.114	.000	.000	32.114
TC-99	.000	85.147	85.147	.000	.000	85.147

Table D-5 (Continued)

Isotopes	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
TC-99M	.000	.006	.006	.000	.000	.006
TE-125M	.000	.036	.036	.000	.000	.036
U-233	.000	.036	.036	.000	.000	.036
U-234	.000	.002	.002	.000	.000	.002
U-235	.000	.002	.002	.000	.001	.003
U-238	.000	.002	.002	.000	.000	.002
ZN-65	.000	91.561	91.561	.000	.000	91.561
ZR-95	.000	86.023	86.023	.000	.000	86.023
ZR-97	.000	.141	.141	.000	.000	.141
Totals:	.000	23,486.637	23,486.637	.000	24,642.001	48,128.638



Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 23 CARTRIDGE-TYPE FILTER MEDIA						
AG-110M	.000	.085	.085	.000	.000	3,214.360
AM-241	.000	.045	.045	.000	.896	.941
ER-7	.000	1,801.508	1,801.508	.000	.000	2,092.898
C-14	.000	658.408	658.408	104.200	1,446.156	2,208.764
CE-141	.000	.000	.000	.000	.000	53.048
CE-144	.000	3.167	3.167	.000	.000	172.471
CM-242	.000	.113	.113	.000	.000	9.982
CM-243	.000	.033	.033	.000	.914	.947
CM-244	.000	.036	.036	.000	.048	.084
CO-57	.000	.192	.192	.000	.000	67.738
CO-58	.000	5,043.795	5,043.795	20,980.000	15,165.660	41,189.455
CO-60	.000	5,193.213	5,193.213	22,490.000	23,330.646	51,013.859
CR-51	.000	511.833	511.833	2,122.000	5,702.822	6,336.655
CS-134	.000	88.405	88.405	.000	819.111	907.516
CS-137	.000	303.523	303.523	.000	2,779.010	3,082.533
FE-55	.000	15,890.604	15,890.604	45,400.000	111,169.705	172,460.309
FE-59	.000	387.040	387.040	1,409.000	856.802	2,652.842
H-3	.000	1,075.306	1,075.306	.176	532.747	1,608.229
I-129	.000	.130	.130	.000	.548	.678
MN-54	.000	665.835	665.835	2,880.000	2,149.224	5,695.059
NB-95	.000	237.991	237.991	4,720.000	1,637.720	6,595.711
NI-59	.000	.097	.097	.000	50.896	50.993
NI-63	.000	1,010.742	1,010.742	2,680.000	7,298.378	10,989.120
NI-65	.000	762.185	762.185	.000	.000	762.185
NP-237	.000	.004	.004	.000	.000	.004
Pg-238	.000	.782	.782	.000	1,362	2,154
Pg-239	.000	.168	.168	.000	.700	.868
Pg-240	.000	.091	.091	.000	.330	.421
Pg-241	.000	32.813	32.813	.000	82.901	115.814
Pg-242	.000	.003	.003	.000	.003	.006
Ru-103	.000	.000	.000	.000	.000	41.038
Ru-106	.000	5.630	5.630	.000	854.737	860.367
SE-124	.000	.000	.000	429.000	643.190	1,072.190
SE-125	.000	10.988	10.988	.000	102.014	113.002
SN-113	.000	1,860.000	1,860.000	.000	20.320	1,900.320
SE-89	.000	.001	.001	.000	12.334	12.335
SR-90	.000	41.415	41.415	.000	13.349	54.764
TC-98	.000	.110	.110	.000	1.045	1.155
TC-99M	.000	.091	.091	.000	.000	.091
U-234	.000	.003	.003	.000	.000	.004
U-235	.000	.000	.000	.000	.001	.001
U-238	.000	.000	.000	.000	.001	.001
ZR-65	.000	190.580	190.580	.000	26.255	214.835
ZR-95	.000	144.465	144.465	3,000.000	988.793	4,133.258



Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Totals:	.000	35,941.540	35,941.540	106,214.376	179,533.189	321,689.105

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Inactors	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 24 NON-CARTRIDGE FILTER MEDIA						
AM-241	.000	.000	.000	.007	.000	.007
C-14	.000	366.657	366.657	298.270	.000	664.927
CE-144	.000	.000	.000	3.037	.000	3.037
CM-242	.000	.000	.000	.023	.000	.023
CM-243	.000	.000	.000	.003	.090	.093
CM-244	.000	.000	.000	.003	.000	.003
CO-57	.000	.000	.000	16.265	.000	16.265
CO-58	.000	23,089.492	23,062.492	499.197	.000	23,568.689
CO-60	.000	178,632.118	178,632.113	2,182.006	.000	180,814.124
CR-51	.000	443,631.676	443,631.676	.000	.000	443,631.676
CS-134	.000	.489	.489	2,790.567	.000	2,791.056
CS-137	.000	1,034.120	1,034.120	4,619.307	.000	5,653.427
FE-65	.000	682,695.676	682,635.676	9,154.492	.000	691,850.168
FE-59	.000	27,235.688	27,235.688	.000	.000	27,235.688
H-3	.000	2,051.829	2,051.829	484.443	.000	2,536.272
I-129	.000	.000	.000	.027	.000	.027
MN-54	.000	108,232.043	106,232.043	296.486	.000	108,528.529
NB-95	.000	7,010.000	7,010.000	5.629	.000	7,015.629
NI-59	.000	.000	.000	14.711	.000	14.711
NI-63	.000	4,127.448	4,127.448	1,384.369	.000	5,511.817
PU-238	.000	.000	.000	.007	.000	.007
PU-239	.000	.000	.000	.012	.000	.012
PU-240	.000	.000	.000	.012	.000	.012
PU-241	.000	.000	.000	1.865	.000	1.865
SB-124	.000	.471	.471	.000	.000	.471
SB-125	.000	.056	.056	29.459	.000	29.515
SK-89	.000	.000	.000	.020	.000	.020
SK-90	.000	14.580	14.580	1.045	.000	15.625
TC-99	.000	.183	.183	.007	.000	.190
ZN-65	.000	1,255.000	1,255.000	.000	.000	1,255.000
Totals:	.000	1,479,377.526	1,479,377.526	21,780.769	.000	1,501,158.295

Table D-5 (Continued)

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 2b ACTIVATED REACTOR HARDWARE						
AM-241	.000	.000	.000	.000	1,500.000	1,500.000
C-14	.000	.000	.000	.000	.020	.020
CM-247	.000	.000	.000	.000	.002	.002
Cs-243	.000	.000	.000	.000	7,165,920.000	7,165,920.000
CO-60	.000	.000	.000	.000	428,280.000	428,280.000
Cr-51	.000	.000	.000	.000	13,124,580.000	13,124,580.000
Cr-55	.000	.000	.000	.000	146,350.000	146,350.000
H-3	.000	.000	.000	.000	391,140.000	391,140.000
PN-54	.000	.000	.000	.000	13.000	13.000
RB-84	.000	.000	.000	.000	6,100.000	6,100.000
KI-59	.000	.000	.000	.000	950,440.000	950,440.000
NI-63	.000	.000	.000	.000	.003	.003
PU-238	.000	.000	.000	.000	.002	.002
PU-239	.000	.000	.000	.000	.130	.130
PU-241	.000	.000	.000	.000	13.000	13.000
TC-99	.000	.000	.000	.000	.001	.001
U-235	.000	.000	.000	.000	.000	.000
Totals:	.000	.000	.000	.000	22,214,436.160	22,214,436.160

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	E S Activity	C S Activity	Total Activity
Waste Description: 26 SOLIDIFIED CHELATES						
C-14	.000	72.030	72.030	.000	.000	72.030
CO-58	.000	210.000	210.000	.000	.000	210.000
CO-60	.000	5,522.000	5,522.000	.000	.000	5,522.000
CR-51	.000	102.000	102.000	.000	.000	102.000
FE-55	.000	33,753.000	33,753.000	.000	.000	33,753.000
FE-56	.000	217.800	217.800	.000	.000	217.800
H-3	.000	15.675	15.675	.000	.000	15.675
MN-04	.000	3,286.300	3,286.300	.000	.000	3,286.300
Totals:	.000	43,178.805	43,178.805	.000	.000	43,178.805

Table D-5 (Continued)

Isotope	A S Activity	A U Activity	A Activity	B S Activity	C S Activity	Total Activity
Waste Description: 27 SOLIDIFIED OIL						
AM-241	.000	.064	.064	.000	.000	.064
AM-243	.000	.040	.040	.000	.000	.040
C-14	.000	78.300	78.300	.000	.000	78.300
CE-144	.000	.040	.040	.000	.000	.040
CM-241	.000	.021	.021	.000	.000	.021
CM-242	.000	.073	.073	.000	.000	.073
CM-243	.000	.040	.040	.000	.000	.040
CM-244	.000	.042	.042	.000	.000	.042
CO-57	.000	.002	.002	.000	.000	.002
CO-58	.000	.323	.323	.000	.000	.323
CO-60	.000	2.884.015	2.884.015	.000	.000	2.884.015
CS-134	.000	104.448	104.448	.000	.000	104.448
CS-137	.000	638.764	638.764	.000	.000	638.764
CS-139	.000	.001	.001	.000	.000	.001
FE-55	.000	399.124	399.124	.000	.000	399.124
FE-59	.000	.004	.004	.000	.000	.004
H-3	.000	281.648	281.648	.000	.000	281.648
I-129	.000	.822	.822	.000	.000	.822
MN-54	.000	2.494	2.494	.000	.000	2.494
ND-144	.000	.040	.040	.000	.000	.040
NI-63	.000	36.122	36.122	.000	.000	36.122
NP-237	.000	.061	.061	.000	.000	.061
PU-238	.000	.065	.065	.000	.000	.065
PU-239	.000	.063	.063	.000	.000	.063
PU-240	.000	.061	.061	.000	.000	.061
PU-241	.000	.195	.195	.000	.000	.195
PU-242	.000	.061	.061	.000	.000	.061
SB-125	.000	.013	.013	.000	.000	.013
SR-89	.000	.140	.140	.000	.000	.140
SR-90	.000	4.101	4.101	.000	.000	4.101
TC-99	.000	2.314	2.314	.000	.000	2.314
TE-125M	.000	.013	.013	.000	.000	.013
U-234	.000	.040	.040	.000	.000	.040
ZN-65	.000	206.646	206.646	.000	.000	206.646
Totals:	.000	5,840.200	4,640.200	.000	.000	4,640.200
GRAND TOTALS:	834.849	3,161,214.253	3,182,049.102	3,890,698.512	32,683,591.426	39,776,739.040



APPENDIX E

USE OF SOLIDIFICATION AND SORBENT MEDIA AT U.S. ECOLOGY DISPOSAL FACILITIES



## APPENDIX E

### USE OF SOLIDIFICATION AND SORBENT MEDIA AT U.S. ECOLOGY DISPOSAL FACILITIES

This appendix summarizes the volumes and gross activities of low-level wastes disposed at the two U.S. Ecology disposal facilities as a function of year, waste class, waste stream, and solidification or sorbent media. Tables E-1 through E-3 summarize volumes and activities for the Richland, WA, disposal facility, whereas Tables E-4 through E-6 summarize volumes and activities for the Beatty, NV, disposal facility. All volumes are given in units of cubic feet; all activities are given in units of millicuries (mCi).

In U.S. Ecology shipment manifests, shippers signify use of particular waste streams, sorbents, and solidification media by using index code lists. A summary of the allowable waste stream descriptions, which are different for 1987 than for 1988 and 1989, is provided in Appendix C. Allowable descriptions for sorbents and solidification media have also changed during this time. For 1987 manifests, the index code list included the following descriptions:

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#### Solidification or Absorbent Media:

2 Speedi-Dry	10 Zonolite, Grades 2, 3, 4
3 Celatom (MP-78)	11 Dow Media
4 Floor Dry/Super Fine	12 Cement
5 Hi Dri	13 Asphalt
6 Florco or Florco X	14 Delaware Custom Media
7 Instant-Dri	15 Envirostone
8 Safe-T-Sorb	16 Krolite
9 Oil-Dri (Safe n Dri)	99 Other

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But for 1988 and 1989 shipments, the index code list was expanded. In addition, a distinction was made between solidification and stabilization media. A stabilization medium has been approved for demonstrating compliance with the structural stability requirements of 10 CFR 61.55. A solidification medium has not been so approved. The sorbents, solidification media, and stabilization media included in these later manifests are as follows:

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Sorbents:

2 Speedi Dri	8 Safe-T-Sorb	51 Dicalite Dicasorb
3 Celetom	9 Safe-N-Dri	28 Dicaperl HP500
4 Floor Dry/Superfine	22 Opalex	29 Petroset
5 Hi Dri	23 Solid-A-Sorb	30 Petroset II
20 Florco	24 Chemsil 30	31 Aquaset
21 Florco X	25 Chemsil 50	32 Aquaset II
7 Instant Dri	26 Chemsil 3030	33 Safe-T-Set
	27 Dicaperl HP200	95 Other Sorbent

Solidification Media:

34 Aztech (General Electric)	12 Concrete (Structural)	38 Hittman Grout
35 Aquaset I and II	14 Delaware Custom Media	39 Petroset I and II
36 Bitumen (ATI & Waste Chem)	11 Dow Media	40 Safe-T-Set
37 Chem-Nuclear Cement	15 Envirostone	96 Other Solidification Media

Stabilization Media:

41 Aztech (General Electric)	45 Dow Media (Vinyl Ester Styrene)	48 Stock Equipment Cement
42 Oxidized Bitumen (ATI & Waste Chem)	46 Envirostone (U.S. Gypsum Cement)	49 Westinghouse-Hittman Cement
43 Chem-Nuclear Cement	47 LN Technologies Cement	97 Other Stabilization Media
44 Concrete (2500 psi)		

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U	6,234.72	6,490.271
		Total: A	6,234.72	6,490.271
	Floor Dry/Superfine	Total:	6,234.72	6,490.271
14 ANIMAL CARCASSES IN LIME AND SORBENT	98 None Required	A U	82.50	5.168
		Total: A	82.50	5.168
	None Required	Total:	82.50	5.168
14 ANIMAL CARCASSES IN LIME AND SORBENT	99 Other	A U	2,652.00	1,051.717
		Total: A	2,652.00	1,051.717
	Other	Total:	2,652.00	1,051.717
14 ANIMAL CARCASSES IN LIME AND SORBENT	95 Other Sorbent	A U	52.50	39.656
		Total: A	52.50	39.656
	Other Sorbent	Total:	52.50	39.656
14 ANIMAL CARCASSES IN LIME AND SORBENT	08 Safe-T-Sorb	A U	15.00	280.700
		Total: A	15.00	280.700
	Safe-T-Sorb	Total:	15.00	280.700
14 ANIMAL CARCASSES IN LIME AND SORBENT	02 Speedi Dri	A U	517.50	322.309
		Total: A	517.50	322.309
	Speedi Dri	Total:	517.50	322.309
14 ANIMAL CARCASSES IN LIME AND SORBENT	10 Zonolite Grade#4	A U	3,471.24	7,077.512
		Total: A	3,471.24	7,077.512
	Zonolite Grade#4	Total:	3,471.24	7,077.512
ANIMAL CARCASSES IN LIME AND SORBENT		Waste Description Total:	12,025.46	15,267.333

Table E-1. Richland 1987 Use of Solidification and Sorbent Media

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (pCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A U	1,072.58	1,784.110
		Total: A	1,072.58	1,784.110
		Total:	1,072.58	1,784.110
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 Hi Dri	A U	52.50	32.500
		Total: A	52.50	32.500
		Total:	52.50	32.500
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	99 Other	A U	2,294.84	1,316.303
		Total: A	2,294.84	1,316.303
		Total:	2,294.84	1,316.303
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	96 Other Solidification Media	A U	15.00	37.580
		Total: A	15.00	37.580
		Total:	15.00	37.580
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	95 Other Sorbent	A U	83.54	71.862
		Total: A	83.54	71.862
		Total:	83.54	71.862
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	08 Safe-T-Sorb	A U	22.50	4,106.223
		Total: A	22.50	4,106.223
		Total:	22.50	4,106.223
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	371.29	1,743.987
		Total: A	371.29	1,743.987
		Total:	371.29	1,743.987
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	10 Zonolite Grade#4	A U	787.28	828.292
		Total: A	787.28	828.292

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<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
	Zonolite Grade#4	Total:	787.28	828.292
AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	4,699.53	9,920.857

Table E-1 (Continued)

<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
04 BIOLOGICAL (NON-CARCASS WASTE)	14 Delaware Custom Media	A U	15.00	11.066
		Total: A	15.00	11.066
04 BIOLOGICAL (NON-CARCASS WASTE)	Delaware Custom Media	Total:	15.00	11.066
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	228.50	13.519
		Total: A	228.50	13.519
04 BIOLOGICAL (NON-CARCASS WASTE)	Floor Dry/Superfine	Total:	228.50	13.519
04 BIOLOGICAL (NON-CARCASS WASTE)	02 Speedi Dri	A U	30.30	1.277
		Total: A	30.30	1.277
04 BIOLOGICAL (NON-CARCASS WASTE)	Speedi Dri	Total:	30.30	1.277
04 BIOLOGICAL (NON-CARCASS WASTE)	10 Zonolite Grade#4	A U	7.50	.200
		Total: A	7.50	.200
04 BIOLOGICAL (NON-CARCASS WASTE)	Zonolite Grade#4	Total:	7.50	.200
BIOLOGICAL (NON-CARCASS WASTE)		Waste Description Total:	281.30	26.062



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<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
21 COMPACTED DRY ACTIVE WASTE	blank	A U	570.00	626.447
		Total: A	570.00	626.447
	blank	Total:	570.00	626.447
COMPACTED DRY ACTIVE WASTE		Waste Description Total:	570.00	626.447

Table E-1 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
08 DEWATERED RESINS	04 Floor Dry/Superfine	B S	199.60	9,183.848
		Total: B	199.60	9,183.848
	Floor Dry/Superfine	Total:	199.60	9,183.848
08 DEWATERED RESINS	99 Other	B S	352.00	74,626.068
		Total: B	352.00	74,626.068
	Other	Total:	352.00	74,626.068
08 DEWATERED RESINS	02 Speedi Dri	A U	3,237.50	5,976.878
		Total: A	3,237.50	5,976.878
	Speedi Dri	Total:	3,237.50	5,976.878
08 DEWATERED RESINS	blank	A S	130.80	86,158.519
08 DEWATERED RESINS	blank	A U	32,199.37	1,286,166.814
		Total: A	32,330.17	1,372,325.333
08 DEWATERED RESINS	blank	B S	2,258.70	2,157,218.589
		Total: B	2,258.70	2,157,218.589
08 DEWATERED RESINS	blank	C S	132.00	382,900.000
		Total: C	132.00	382,900.000
	blank	Total:	34,720.87	3,912,443.922
DEWATERED RESINS	Waste Description Total:		36,509.97	4,062,230.716

Table E-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
02 DRY SOLID	12 Concrete (Structural)	A U	8.50	1.008
		Total: A	8.50	1.008
02 DRY SOLID	12 Concrete (Structural)	B S	31.30	4,087,153.000
		Total: B	31.30	4,087,153.000
02 DRY SOLID	12 Concrete (Structural)	C S	34.01	150.000
		Total: C	34.01	150.000
	Concrete (Structural)	Total:	73.81	4,087,373.008
02 DRY SOLID	15 Envirostone	A U	1,053.40	3,106.010
		Total: A	1,053.40	3,106.010
	Envirostone	Total:	1,053.40	3,106.010
02 DRY SOLID	04 Floor Dry/Superfine	A U	550.98	1,888.733
		Total: A	550.98	1,888.733
	Floor Dry/Superfine	Total:	550.98	1,888.733
02 DRY SOLID	05 Hi Dri	A U	15.00	.422
		Total: A	15.00	.422
	Hi Dri	Total:	15.00	.422
02 DRY SOLID	99 Other	A U	307.53	15.078
		Total: A	307.53	15.078
	Other	Total:	307.53	15.078
02 DRY SOLID	29 Petroset	A U	644.00	46.200
		Total: A	644.00	46.200
	Petroset	Total:	644.00	46.200
02 DRY SOLID	09 Safe-N-Dri	A U	92.00	22.292
		Total: A	92.00	22.292
	Safe-N-Dri	Total:	92.00	22.292

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
02 DRY SOLID	02 Speedi Dri	A U	5,623.06	5,150.486
		Total: A	5,623.06	5,150.486
	Speedi Dri	Total:	5,623.06	5,150.486
02 DRY SOLID	10 Zanolite Grade#4	A U	52.50	5.936
		Total: A	52.50	5.936
	Zanolite Grade#4	Total:	52.50	5.936
02 DRY SOLID	blank	A S	85.24	5,764.392
02 DRY SOLID	blank	A U	409,374.59	1,589,445.237
		Total: A	409,459.83	1,575,209.629
02 DRY SOLID	blank	B S	974.69	1,765,005.871
		Total: B	974.69	1,765,005.871
02 DRY SOLID	blank	C S	1,372.93	11,830,438.569
		Total: C	1,372.93	11,830,438.569
	blank	Total:	411,807.45	15,170,854.069
DRY SOLID		Waste Description Total:	420,219.73	19,268,282.234

Table E-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
07 FILTER MEDIA	12 Concrete (Structural)	A S	180.00	114.292
07 FILTER MEDIA	12 Concrete (Structural)	A U	15.00	21.842
		Total: A	195.00	136.134
	Concrete (Structural)	Total:	195.00	136.134
07 FILTER MEDIA	14 Delaware Custom Media	A U	15.00	8.929
		Total: A	15.00	8.929
	Delaware Custom Media	Total:	15.00	8.929
07 FILTER MEDIA	04 Floor Dry/Superfine	A S	509.40	15,031.756
07 FILTER MEDIA	04 Floor Dry/Superfine	A U	232.50	2,750.086
		Total: A	741.90	17,781.842
07 FILTER MEDIA	04 Floor Dry/Superfine	B S	249.50	47,651.113
		Total: B	249.50	47,651.113
	Floor Dry/Superfine	Total:	991.40	85,432.955
07 FILTER MEDIA	99 Other	A S	82.00	8,332.069
		Total: A	82.00	8,332.069
	Other	Total:	82.00	8,332.069
07 FILTER MEDIA	09 Safe-N-Dri	A U	232.50	1,727.532
		Total: A	232.50	1,727.532
	Safe-N-Dri	Total:	232.50	1,727.532
07 FILTER MEDIA	02 Speedi Dri	A S	49.90	3,504.893
07 FILTER MEDIA	02 Speedi Dri	A U	150.00	3,587.821
		Total: A	199.90	7,092.714
07 FILTER MEDIA	02 Speedi Dri	B S	49.90	5,608.137
		Total: B	49.90	5,608.137
	Speedi Dri	Total:	249.80	12,700.851
07 FILTER MEDIA	10 Zonolite Grade#4	A S	198.60	5,888.715
07 FILTER MEDIA	10 Zonolite Grade#4	A U	198.60	5,888.715
		Total: A	397.20	11,777.430
		B S	798.40	217,183.236

E-11

Table E-1 (Continued)

E-12

<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
		Total: B	798.40	217,183.238
	Zonolite Grade#4	Total:	998.00	223,071.953
07 FILTER MEDIA	blank	A S	99.80	15,736.239
07 FILTER MEDIA	blank	A U	551.70	4,987.573
		Total: A	651.50	19,823.812
07 FILTER MEDIA	blank	B S	49.90	14,257.041
		Total: B	49.90	14,257.041
	blank	Total:	701.40	34,080.863
FILTER MEDIA		Waste Description Total:	3,485.10	345,491.276

Table E-1 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
22 NON-COMPACTED DRY ACTIVE WASTE	95 None Required	A U	200.00	6,378.402
		Total: A	200.00	6,378.402
	None Required	Total:	200.00	6,378.402
22 NON-COMPACTED DRY ACTIVE WASTE	blank	A U	7.50	99.504
		Total: A	7.50	99.504
	blank	Total:	7.50	99.504
NON-COMPACTED DRY ACTIVE WASTE		Waste Description Total:	207.50	6,477.906

E-14

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (#Ci)
99 OTHER	12 Concrete (Structural)	A S	.70	20.000
		Total: A	.70	20.000
	Concrete (Structural)	Total:	.70	20.000
99 OTHER	99 Other	A U	3,203.45	1,389.873
		Total: A	3,203.45	1,389.873
	Other	Total:	3,203.45	1,389.873
99 OTHER	10 Zonolite Grade#4	A U	1,797.01	3,269.679
		Total: A	1,797.01	3,269.679
	Zonolite Grade#4	Total:	1,797.01	3,269.679
99 OTHER	blank	A U	2,655.67	619.226
		Total: A	2,655.67	619.226
	blank	Total:	2,655.67	619.226
OTHER	Waste Description Total:		7,656.83	5,298.778

Table E-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
03 SOLIDIFIED LIQUIDS	13 Asphalt	A S	450.00	5,567.960
03 SOLIDIFIED LIQUIDS	13 Asphalt	A U	1,133.90	23,765.385
		Total: A	1,583.90	29,333.365
	Asphalt	Total:	1,583.90	29,333.365
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A S	3,058.70	1,790.901
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	12,329.50	766,391.333
		Total: A	15,388.20	768,182.234
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B S	172.50	21,175,100.000
		Total: B	172.50	21,175,100.000
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	C S	37.50	856,500.000
		Total: C	37.50	856,500.000
	Concrete (Structural)	Total:	15,598.20	22,799,782.234
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A S	90.00	131.519
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	1,153.47	1,318.390
		Total: A	1,243.47	1,449.909
	Delaware Custom Media	Total:	1,243.47	1,449.909
03 SOLIDIFIED LIQUIDS	15 Envirostone	A S	6,610.20	4,749.771
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	157.50	12.398
		Total: A	6,767.70	4,762.167
03 SOLIDIFIED LIQUIDS	15 Envirostone	C S	7.50	295.240
		Total: C	7.50	295.240
	Envirostone	Total:	6,775.20	5,057.407
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	7.50	5.000
		Total: A	7.50	5.000
	Floor Dry/Superfine	Total:	7.50	5.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	52.50	3.324
		Total: A	52.50	3.324
	None Required	Total:	52.50	3.324

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
03 SOLIDIFIED LIQUIDS	99 Other	A S	412.00	187.906
03 SOLIDIFIED LIQUIDS	99 Other	A U	1,554.76	2,888.086
		Total: A	1,966.76	2,875.992
	Other	Total:	1,966.76	2,875.992
03 SOLIDIFIED LIQUIDS	96 Other Solidification Media	A U	52.50	856.008
		Total: A	52.50	856.008
	Other Solidification Media	Total:	52.50	856.008
03 SOLIDIFIED LIQUIDS	blank	A U	7.50	16.715
		Total: A	7.50	16.715
	blank	Total:	7.50	16.715
SOLIDIFIED LIQUIDS		Waste Description Total:	27,287.53	22,839,379.954

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
09 SOLIDIFIED RESINS	13 Asphalt	A S	172.50	172.106
09 SOLIDIFIED RESINS	13 Asphalt	A U	15.00	11.205
		Total: A	187.50	183.311
	Asphalt	Total:	187.50	183.311
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A S	780.50	50,738.876
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A U	4,090.24	23,069.533
		Total: A	4,870.74	73,808.409
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	1,822.50	519,579.610
		Total: B	1,822.50	519,579.610
	Concrete (Structural)	Total:	6,693.24	593,388.019
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	15.00	3.241
		Total: A	15.00	3.241
	Delaware Custom Media	Total:	15.00	3.241
09 SOLIDIFIED RESINS	98 None Required	A U	22.50	92.326
		Total: A	22.50	92.326
	None Required	Total:	22.50	92.326
09 SOLIDIFIED RESINS	98 Other	B S	266.00	154,409.578
		Total: B	266.00	154,409.578
	Other	Total:	266.00	154,409.578
SOLIDIFIED RESINS		Waste Description Total:	7,184.24	748,076.475

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
10 SORBED AQUEOUS LIQUID	31 Aquaset	A U	127.50	49,758.000
		Total: A	127.50	49,758.000
		Aquaset	Total:	127.50
10 SORBED AQUEOUS LIQUID	03 Celetom	A U	7.50	.075
		Total: A	7.50	.075
		Celetom	Total:	7.50
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	7.50	.454
		Total: A	7.50	.454
		Delaware Custom Media	Total:	7.50
10 SORBED AQUEOUS LIQUID	01 Diatomaceous Earth	A U	15.00	12.984
		Total: A	15.00	12.984
		Diatomaceous Earth	Total:	15.00
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	17,588.38	150,364.042
		Total: A	17,588.38	150,364.042
		Floor Dry/Superfine	Total:	17,588.38
10 SORBED AQUEOUS LIQUID	06 Florco and Florco X	A U	570.00	3.689
		Total: A	570.00	3.689
		Florco and Florco X	Total:	570.00
10 SORBED AQUEOUS LIQUID	05 Hi Dri	A U	22.50	6,779.000
		Total: A	22.50	6,779.000
		Hi Dri	Total:	22.50
10 SORBED AQUEOUS LIQUID	99 Other	A U	6,197.84	11,403.508
		Total: A	6,197.84	11,403.508



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	Other	Total:	6,197.84	11,403.506
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	217.50	228.410
		Total: A	217.50	228.410
	Other Sorbent	Total:	217.50	228.410
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	23.17	25.600
		Total: A	23.17	25.600
	Safe-N-Dri	Total:	23.17	26.600
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	7.50	1.569
		Total: A	7.50	1.569
	Safe-T-Sorb	Total:	7.50	1.569
10 SORBED AQUEOUS LIQUID	02 Speedi Dri	A U	1,217.38	11,862.032
		Total: A	1,217.38	11,862.032
	Speedi Dri	Total:	1,217.38	11,862.032
10 SORBED AQUEOUS LIQUID	10 Zonolite Grade#4	A U	3,668.57	10,718.442
		Total: A	3,668.57	10,718.442
	Zonolite Grade#4	Total:	3,668.57	10,718.442
SORBED AQUEOUS LIQUID		Waste Description Total:	28,670.34	241,157.783

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (uCi)
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	1,239.01	102.048
		Total: A	1,239.01	102.048
	Floor Dry/Superfine	Total:	1,239.01	102.048
11 SORBED NON-AQUEOUS LIQUID	06 Florco and Florco X	A U	330.00	314.040
		Total: A	330.00	314.040
	Florco and Florco X	Total:	330.00	314.040
11 SORBED NON-AQUEOUS LIQUID	05 Hi Dri	A U	302.50	12.583
		Total: A	302.50	12.583
	Hi Dri	Total:	302.50	12.583
11 SORBED NON-AQUEOUS LIQUID	99 Other	A U	15.00	.022
		Total: A	15.00	.022
	Other	Total:	15.00	.022
11 SORBED NON-AQUEOUS LIQUID	09 Safe-N-Dri	A U	2,865.00	334.247
		Total: A	2,865.00	334.247
	Safe-N-Dri	Total:	2,865.00	334.247
11 SORBED NON-AQUEOUS LIQUID	02 Speedi Dri	A U	105.54	1,000.994
		Total: A	105.54	1,000.994
	Speedi Dri	Total:	105.54	1,000.994
SORBED NON-AQUEOUS LIQUID	Waste Description Total:		4,857.05	1,763.934

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
01 VIALS	04 Floor Dry/Superfine	A U	15.00	11.871
		Total: A	15.00	11.871
	Floor Dry/Superfine	Total:	15.00	11.871
VIALS		Waste Description Total:	15.00	11.871
GRAND TOTAL:			556,849.58	47,483,921.628

Table E-2. Richland 1988 Use of Solidification and Sorbent Media

E-22

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
25 ACTIVATED REACTOR HARDWARE	44 Concrete (2500 psi)	A S	73.60	305.100
		Total: A	73.60	305.100
	Concrete (2500 psi)	Total:	73.60	305.100
25 ACTIVATED REACTOR HARDWARE	12 Concrete (Structural)	A U	100.50	7,449.061
		Total: A	100.50	7,449.061
	Concrete (Structural)	Total:	100.50	7,449.061
25 ACTIVATED REACTOR HARDWARE	98 None Required	A S	66.30	213.800
25 ACTIVATED REACTOR HARDWARE	95 None Required	A U	40.80	20.100
		Total: A	107.10	233.900
	None Required	Total:	107.10	233.900
ACTIVATED REACTOR HARDWARE		Waste Description Total:	281.20	7,988.061

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
14 ANIMAL CARCASSES IN LIME AND SORBENT	24 Chemsil 30	A U	97.50	35.063
		Total: A	97.50	35.063
		Total:	97.50	35.063
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	2,603.20	1,197.641
		Total: A	2,603.20	1,107.641
		Total:	2,603.20	1,107.641
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U	802.50	213.003
		Total: A	802.50	213.003
		Total:	802.50	213.003
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U	30.00	13.662
		Total: A	30.00	13.562
		Total:	30.00	13.662
14 ANIMAL CARCASSES IN LIME AND SORBENT	28 Dicaperl HP500	A U	80.00	10.055
		Total: A	80.00	10.055
		Total:	80.00	10.055
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U	7,558.31	40,852.153
		Total: A	7,558.31	40,836.153
		Total:	7,558.31	40,836.153
14 ANIMAL CARCASSES IN LIME AND SORBENT	95 Other Sorbent	A U	7.50	24.979
		Total: A	7.50	24.979
		Total:	7.50	24.979
14 ANIMAL CARCASSES IN LIME AND SORBENT	09 Safe-N-Dri	A U	15.00	3.822
		Total: A	15.00	3.822

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	Safe-N-Dri	Total:	15.00	3.822
14 ANIMAL CARCASSES IN LIME AND SORBENT	23 Solid-A-Sorb	A U	37.50	13.000
		Total: A	37.50	13.000
	Solid-A-Sorb	Total:	37.50	13.000
14 ANIMAL CARCASSES IN LIME AND SORBENT	02 Speedi Dri	A U	285.00	244.809
		Total: A	285.00	244.809
	Speedi Dri	Total:	285.00	244.809
14 ANIMAL CARCASSES IN LIME AND SORBENT	10 Zonolite Grade#4	A U	22.50	4.500
		Total: A	22.50	4.500
	Zonolite Grade#4	Total:	22.50	4.500
ANIMAL CARCASSES IN LIME AND SORBENT		Waste Description Total:	11,519.01	42,508.587



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemsil 3030	A U	3,804.22	3,570.180
		Total: A	3,804.22	3,570.180
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Chemsil 3030	Total:	3,804.22	3,570.180
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	25 Chemsil 50	A U	26.51	44.259
		Total: A	26.51	44.259
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Chemsil 50	Total:	26.51	44.259
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A U	736.13	1,974.860
		Total: A	736.13	1,974.860
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Floor Dry/Superfine	Total:	736.13	1,974.860
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 Hi Dri	A U	105.00	2,321.500
		Total: A	105.00	2,321.500
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Hi Dri	Total:	105.00	2,321.500
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	08 Safe-T-Sorb	A U	22.50	2,900.515
		Total: A	22.50	2,900.515
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Safe-T-Sorb	Total:	22.50	2,900.515
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	356.14	389.189
		Total: A	356.14	389.189
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Speedi Dri	Total:	356.14	389.189
AQUEOUS LIQUIDS IN VIALS IN SORBENT	Waste Description Total:		5,050.50	11,200.503

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	82.50	94.183
		Total: A	82.50	94.183
	Chemsil 3030	Total:	82.50	94.183
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	920.01	6,670.892
		Total: A	920.01	6,670.892
	Floor Dry/Superfine	Total:	920.01	6,670.892
04 BIOLOGICAL (NON-CARCASS WASTE)	23 Solid-A-Sorb	A U	22.50	7.000
		Total: A	22.50	7.000
	Solid-A-Sorb	Total:	22.50	7.000
04 BIOLOGICAL (NON-CARCASS WASTE)	02 Speedi Dri	A U	157.50	100.414
		Total: A	157.50	100.414
	Speedi Dri	Total:	157.50	100.414
BIOLOGICAL (NON-CARCASS WASTE)	Waste Description Total:		1,162.51	6,872.489

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	43 Chem-Nuclear Cement	A S	77.00	.040
		Total: A	77.00	.040
	Chem-Nuclear Cement	Total:	77.00	.040
23 CARTRIDGE-TYPE FILTER MEDIA	12 Concrete (Structural)	A U	112.50	106,120.800
		Total: A	112.50	106,120.800
	Concrete (Structural)	Total:	112.50	106,120.800
23 CARTRIDGE-TYPE FILTER MEDIA	14 Delaware Custom Media	A U	7.50	18.630
		Total: A	7.60	18.630
	Delaware Custom Media	Total:	7.50	18.630
23 CARTRIDGE-TYPE FILTER MEDIA	46 Envirostone (U.S. Gypsum Cement)	A S	110.00	1,155.607
		Total: A	110.00	1,155.607
	Envirostone (U.S. Gypsum Cement)	Total:	110.00	1,155.607
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	A S	131.00	28,251.613
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	A U	37.50	789.387
		Total: A	168.50	29,051.000
	Floor Dry/Superfine	Total:	168.50	29,051.000
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	B S	155.00	138,763.950
		Total: B	155.00	138,763.950
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	155.00	33,528.475
		Total: C	155.00	33,528.475
	LN Technologies Cement	Total:	310.00	172,292.425
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A S	50.00	29,601.311
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	117.50	1,142.300
		Total: A	167.50	30,743.611
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	B S	100.00	100,772.716
		Total: B	100.00	100,772.716
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	C S	49.90	70,403.994
		Total: C	49.90	70,403.994

E-27

Table E-2 (Continued)

E-28

Waste Description	Solidification / Absorbent Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	None Required	Total:	317.40	201,920.321
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	603.60	396.892
		Total: A	603.60	396.892
	Safe-N-Dri	Total:	603.60	396.892
23 CARTRIDGE-TYPE FILTER MEDIA	blank	A S	99.80	28,765.958
		Total: A	99.80	28,765.958
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	49.90	88,969.498
		Total: B	49.90	88,969.498
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	49.90	51,661.302
		Total: C	49.90	51,661.302
	blank	Total:	199.60	149,396.758
CARTRIDGE-TYPE FILTER MEDIA		Waste Description Total:	1,906.10	650,352.473

Table E-2 (Continued)

E-29

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	26 Chemsil 3030	A U	61.50	88.086
		Total: A	61.50	88.086
		Chemsil 3030	Total:	61.50
21 COMPACTED DRY ACTIVE WASTE	15 Envirostone	A S	88.00	29.538
		A U	184.00	76.590
		Total: A	272.00	106.140
	Envirostone	Total:	272.00	106.140
21 COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	1,260.00	2,313.500
		Total: A	1,260.00	2,313.500
		Floor Dry/Superfine	Total:	1,260.00
21 COMPACTED DRY ACTIVE WASTE	05 Hi Dri	A U	33.90	69.080
		Total: A	33.90	69.080
		Hi Dri	Total:	33.90
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	50,455.09	191,350.914
		Total: A	50,455.09	191,350.914
		21 COMPACTED DRY ACTIVE WASTE	96 None Required	C S
Total: C	176.00			4,731.005
None Required	Total:			50,631.09
21 COMPACTED DRY ACTIVE WASTE	02 Speedi Dri	A U	3,709.50	6,429.524
		Total: A	3,709.50	6,429.524
		Speedi Dri	Total:	3,709.50
21 COMPACTED DRY ACTIVE WASTE	blank	A U	29,124.80	19,483.613
		Total: A	29,124.80	19,483.613
		blank	Total:	29,124.80

Table E-2 (Continued)

<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
COMPACTED DRY ACTIVE WASTE				
		Waste Description Total:	85,092.72	224,571.862



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
08 DEWATERED RESINS	15 Envirostone	A U	22.50	28.517
		Total: A	22.50	28.517
		Envirostone	Total:	22.50
08 DEWATERED RESINS	04 Floor Dry/Superfine	A U	7.50	.006
		Total: A	7.50	.006
		Floor Dry/Superfine	Total:	7.50
08 DEWATERED RESINS	96 None Required	A U	19,191.50	636,891.942
		Total: A	19,191.50	636,891.942
08 DEWATERED RESINS	98 None Required	B S	1,241.80	806,450.819
		Total: B	1,241.80	806,450.819
08 DEWATERED RESINS	98 None Required	C S	1,354.90	4,296,873.073
		Total: C	1,354.90	4,296,873.073
	None Required	Total:	21,788.20	5,742,315.834
08 DEWATERED RESINS	99 Other	A U	167.00	7,307.098
		Total: A	167.00	7,307.098
		Other	Total:	167.00
08 DEWATERED RESINS	97 Other Stabilization Media	A S	131.00	152,879.457
		Total: A	131.00	152,879.457
		Other Stabilization Media	Total:	131.00
08 DEWATERED RESINS	08 Safe-N-Dri	A B	938.60	653.787
		Total: A	938.60	653.787
		Safe-N-Dri	Total:	938.60
08 DEWATERED RESINS	blank	A S	392.40	59,654.009
		A U	9,404.80	299,524.867
08 DEWATERED RESINS	blank	Total: A	9,799.20	359,178.876
		B S	1,107.50	496,122.295
08 DEWATERED RESINS	blank	Total: B	1,107.50	496,122.295

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (MCi)
	blank		10,906.70	855,301.171
		Total:		
DEWATERED RESINS	Waste Description T. 1:		33,061.60	6,758,425.890

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
02 DRY SOLID	37 Chem-Nuclear Cement	A S	7.50	341.430
02 DRY SOLID	37 Chem-Nuclear Cement	A U	.68	.100
		Total: A	8.18	341.535
	Chem-Nuclear Cement	Total:	8.18	341.535
02 DRY SOLID	24 Chemsil 30	A U	19.01	4.482
		Total: A	19.01	4.482
	Chemsil 30	Total:	19.01	4.482
02 DRY SOLID	26 Chemsil 3030	A U	1,171.34	1,203.489
		Total: A	1,171.34	1,203.489
	Chemsil 3030	Total:	1,171.34	1,203.489
02 DRY SOLID	25 Chemsil 50	A U	683.70	943.520
		Total: A	683.70	943.520
	Chemsil 50	Total:	683.70	943.520
02 DRY SOLID	44 Concrete (2500 psi)	B S	19.00	111,236.016
02 DRY SOLID	44 Concrete (2500 psi)	B	19.00	111,236.016
		C S	15.00	38.990
		Total: C	15.00	38.990
	Concrete (2500 psi)	Total:	34.00	111,275.008
02 DRY SOLID	12 Concrete (Structural)	A S	1.20	250.000
02 DRY SOLID	12 Concrete (Structural)	A U	1,406.43	90,795.114
		Total: A	1,407.63	91,045.114
02 DRY SOLID	12 Concrete (Structural)	B S	12.18	95.651
02 DRY SOLID	12 Concrete (Structural)	B	12.18	95.651
		Total: B	12.18	95.651
		C S	112.50	3,718.400
		Total: C	112.50	3,718.400
	Concrete (Structural)	Total:	1,532.31	94,859.166
02 DRY SOLID	14 Delaware Custom Media	F U	379.28	20,228.250
		Total: L	379.28	20,228.250

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
	Delaware Custom Media	Total:	379.28	20,228.250
02 DRY SOLID	15 Envirostone	A U	2,912.44	11,811.697
		Total: A	2,912.44	11,811.697
02 DRY SOLID	15 Envirostone	B S	4.01	1,350.000
		Total: B	4.01	1,350.000
	Envirostone	Total:	2,916.45	13,161.697
02 DRY SOLID	04 Floor Dry/Superfine	A U	3,342.31	966,130.265
		Total: A	3,342.31	966,130.265
02 DRY SOLID	04 Floor Dry/Superfine	B S	131.00	12,344.432
		Total: B	131.00	12,344.432
	Floor Dry/Superfine	Total:	3,473.31	978,474.697
02 DRY SOLID	05 Hi Dri	A U	261.90	375.793
		Total: A	261.90	375.793
	Hi Dri	Total:	261.90	375.793
02 DRY SOLID	98 None Required	A U	42,208.50	580,070.633
		Total: A	42,208.50	580,070.633
02 DRY SOLID	98 None Required	B S	311.13	3,647,319.829
		Total: B	311.13	3,647,319.829
02 DRY SOLID	98 None Required	C S	66.80	150,915.222
		Total: C	66.80	150,915.222
	None Required	Total:	42,586.43	4,378,305.784
02 DRY SOLID	99 Other	A U	7.50	14.299
		Total: A	7.50	14.299
	Other	Total:	7.50	14.299
02 DRY SOLID	96 Other Solidification Media	A U	2.01	2.486
		Total: A	2.01	2.486

Table E-2 (Continued)

E-35

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	Other Solidification Media	Total:	2.01	2.486
02 DRY SOLID	95 Other Sorbent	A U	70.62	6.667
		Total: A	70.62	6.667
	Other Sorbent	Total:	70.62	6.667
02 DRY SOLID	09 Safe-N-Dri	A U	574.50	519.485
		Total: A	574.50	519.485
	Safe-N-Dri	Total:	574.50	519.485
02 DRY SOLID	23 Solid-A-Sorb	A U	22.50	7.000
		Total: A	22.50	7.000
	Solid-A-Sorb	Total:	22.50	7.000
02 DRY SOLID	02 Speedi Dri	A U	44,033.86	22,463.474
		Total: A	44,033.86	22,463.474
	Speedi Dri	Total:	44,033.86	22,463.474
02 DRY SOLID	10 Zonolite Grade#4	A U	30.00	25.190
		Total: A	30.00	25.190
	Zonolite Grade#4	Total:	30.00	25.190
02 DRY SOLID	blank	A U	59,566.08	88,321.843
		Total: A	59,566.08	88,321.843
	blank	Total:	59,566.08	88,321.843
DRY SOLID		Waste Description Total:	157,362.98	5,710,833.982

Table E-2 (Continued)

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35

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	1,410.40	4,090.795
		Total: A	1,410.40	4,090.795
	Bitumen (ATI & Waste Chem)	Total:	1,410.40	4,090.795
20 EVAPORATOR BOTTOMS	37 Chem-Nuclear Cement	A U	1,591.60	2,035.403
		Total: A	1,591.60	2,035.403
	Chem-Nuclear Cement	Total:	1,591.60	2,035.403
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	1,090.80	9,134.987
		Total: A	1,090.80	9,134.987
	Concrete (Structural)	Total:	1,090.80	9,134.987
20 EVAPORATOR BOTTOMS	15 Envirostone	A U	9,970.00	20,522.394
		Total: A	9,970.00	20,522.394
	Envirostone	Total:	9,970.00	20,522.394
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	1,780.00	6,550.320
		Total: A	1,780.00	6,550.320
	Westinghouse-Hittman Cement	Total:	1,780.00	6,550.320
EVAPORATOR BOTTOMS	Waste Description Total:		15,842.80	42,333.899

Table E-2 (Continued)



Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. y.)	Activity (MCi)
15 GAS	98 None Required	A U	18.50	63.088
		Total: A	187.50	63.088
	None Required	Total:	187.50	63.088
GAS		Waste Description Total:	187.50	63.088

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBE	26 Chemcill 3030	A U	7.50	15.175
		Total: A	7.50	15.175
	Chemcill 3030	Total:	7.50	15.175
NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	7.50	15.175

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	2,003.90	31,951.866
		Total: A	2,003.90	31,951.866
	Bitumen (ATI & Waste Chem)	Total:	2,003.90	31,951.866
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	30.00	40.965
		Total: A	30.00	40.965
	Delaware Custom Media	Total:	30.00	40.965
24 NON-CARTRIDGE FILTER MEDIA	98 None Required	A U	7.50	3.755
		Total: A	7.50	3.755
	None Required	Total:	7.50	3.755
NON-CARTRIDGE FILTER MEDIA	Waste Description Total:		2,041.40	31,996.586

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
22 NON-COMPACTED DRY ACTIVE WASTE	24 Chemsil 30	A U	22.50	1.244
		Total: A	22.50	1.244
	Chemsil 30	Total:	22.50	1.244
22 NON-COMPACTED DRY ACTIVE WASTE	26 Chemsil 3030	A U	210.00	19.600
		Total: A	210.00	19.600
	Chemsil 3030	Total:	210.00	19.600
22 NON-COMPACTED DRY ACTIVE WASTE	25 Chemsil 50	A U	71.51	1,035.721
		Total: A	71.51	1,035.721
	Chemsil 50	Total:	71.51	1,035.721
22 NON-COMPACTED DRY ACTIVE WASTE	46 Envirostone (U.S. Gypsum Cement)	B S	220.00	50,252.329
		Total: B	220.00	50,252.329
	Envirostone (U.S. Gypsum Cement)	Total:	220.00	50,252.329
22 NON-COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	19.62	1.720
		Total: A	19.62	1.720
	Floor Dry/Superfine	Total:	19.62	1.720
22 NON-COMPACTED DRY ACTIVE WASTE	05 Hi Dri	A U	11.30	136.565
		Total: A	11.30	136.565
	Hi Dri	Total:	11.30	136.565
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	A U	15,229.09	59,677.174
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	Total: A	15,229.09	59,677.174
		B S	375.00	59,891.204
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	Total: B	375.00	59,891.204
		C S	400.00	15,513.084
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	Total: C	400.00	15,513.084
	None Required	Total:	16,004.09	135,081.462

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
22 NON-COMPACTED DRY ACTIVE WASTE	09 Safe-N-Dri	A U	82.50	45.402
		Total: A	82.50	45.402
	Safe-N-Dri	Total:	82.50	45.402
22 NON-COMPACTED DRY ACTIVE WASTE	23 Solid-A-Sorb	A U	4.00	2,274.016
		Total: A	4.00	2,274.016
	Solid-A-Sorb	Total:	4.00	2,274.016
22 NON-COMPACTED DRY ACTIVE WASTE	blank	A U	10,047.32	7,171.177
		Total: A	10,047.32	7,171.177
22 NON-COMPACTED DRY ACTIVE WASTE	blank	B S	49.90	5,293.145
		Total: B	49.90	5,293.145
	blank	Total:	10,097.22	12,464.322
NON-COMPACTED DRY ACTIVE WASTE	Waste Description Total:		26,742.74	201,312.381

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
99 OTHER	43 Chem-Nuclear Cement	A S	4.00	.488
		Total: A	4.00	.488
99 OTHER	43 Chem-Nuclear Cement	C S	22.50	146.400
		Total: C	22.50	146.400
	Chem-Nuclear Cement	Total:	26.50	146.888
99 OTHER	12 Concrete (Structural)	A U	7.50	128.702
		Total: A	7.50	128.702
99 OTHER	12 Concrete (Structural)	B S	7.50	963.400
		Total: B	7.50	963.400
	Concrete (Structural)	Total:	15.00	1,090.102
99 OTHER	05 Hi Dri	A U	97.50	9,589.602
		Total: A	97.50	9,589.602
	Hi Dri	Total:	97.50	9,589.602
99 OTHER	98 None Required	A U	690.00	50.161
		Total: A	690.00	50.161
	None Required	Total:	690.00	50.161
99 OTHER	99 Other	A U	644.00	46.200
		Total: A	644.00	46.200
	Other	Total:	644.00	46.200
OTHER	Waste Description Total:		1,473.00	10,922.953



<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu. ft.)</u>	<u>Activity (mCi)</u>
26 SOLIDIFIED CHELATES	32 Aquaset II	A U	4,920.00	535.040
		Total: A	4,920.00	535.040
	Aquaset II	Total:	4,920.00	535.040
SOLIDIFIED CHELATES		Waste Description Total:	4,920.00	535.040

E-4A

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
03 SOLIDIFIED LIQUIDS	35 Aquaset I and II	A U	300.00	1,743.378
		Total: A	300.00	1,743.378
	Aquaset I and II	Total:	300.00	1,743.378
03 SOLIDIFIED LIQUIDS	36 Bitumen (ATI & Waste Chem)	A U	444.00	3,629.135
		Total: A	444.00	3,629.135
	Bitumen (ATI & Waste Chem)	Total:	444.00	3,629.135
03 SOLIDIFIED LIQUIDS	43 Chem-Nuclear Cement	A S	4.10	.453
03 SOLIDIFIED LIQUIDS	37 Chem-Nuclear Cement	A U	618.36	78.727
		Total: A	622.40	79.180
	Chem-Nuclear Cement	Total:	622.40	79.180
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	3,517.42	307,512.047
		Total: A	3,517.42	307,512.047
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B S	172.50	17,315,000.000
		Total: B	172.50	17,315,000.000
	Concrete (Structural)	Total:	3,689.92	17,622,512.047
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	862.50	656.678
		Total: A	862.50	656.678
	Delaware Custom Media	Total:	862.50	656.678
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	1,004.50	8,432.896
		Total: A	1,004.50	8,432.896
	Envirostone	Total:	1,004.50	8,432.896
03 SOLIDIFIED LIQUIDS	05 Hi Dri	A U	15.00	39.245
		Total: A	15.00	39.245
	Hi Dri	Total:	15.00	39.245
03 SOLIDIFIED LIQUIDS	99 Other	A U	114.50	233.775

Table E-2 (Continued)

E-45

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
		Total: A	114.50	233.778
	Other	Total:	114.50	233.778
03 SOLIDIFIED LIQUIDS	02 Speedi Dri	A U	277.50	2,479.288
		Total: A	277.50	2,479.288
	Speedi Dri	Total:	277.50	2,479.288
SOLIDIFIED LIQUIDS		Waste Description Total:	7,330.32	17,639,805.625

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
27 SOLIDIFIED OIL	35 Aquaset I and II	A ⊕	3,013.60	85.044
		Total: A	3,013.60	85.044
	Aquaset I and II	Total:	3,013.60	85.044
27 SOLIDIFIED OIL	43 Chem-Nuclear Cement	A S	2,181.00	637.310
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	841.40	876.542
		Total: A	3,022.40	1,613.852
	Chem-Nuclear Cement	Total:	3,022.40	1,613.852
27 SOLIDIFIED OIL	12 Concrete (Structural)	A U	1.30	12.500
		Total: A	1.30	12.500
	Concrete (Structural)	Total:	1.30	12.500
27 SOLIDIFIED OIL	15 Envirostone	A U	537.80	863.268
		Total: A	537.80	863.268
	Envirostone	Total:	537.80	863.268
27 SOLIDIFIED OIL	98 None Required	A U	317.00	1.145
		Total: A	317.00	1.145
	None Required	Total:	7.00	1.145
27 SOLIDIFIED OIL	96 Other Solidification Media	A U	503.00	.298
		Total: A	503.00	.298
	Other Solidification Media	Total:	503.00	.298
27 SOLIDIFIED OIL	39 Petroset I and II	A U	232.50	130.708
		Total: A	232.50	130.708
	Petroset I and II	Total:	232.50	130.708
27 SOLIDIFIED OIL	30 Petroset II	A U	472.50	26.215
		Total: A	472.50	26.215

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
		Total:	472.50	26.215
SOLIDIFIED OIL			8,100.10	2,733.028
		Waste Description Total:		

Table E-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (dCi)
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	3,921.80	24,622.124
	Total: A		3,921.80	24,622.124
09 SOLIDIFIED RESINS	Bitumen (ATI & Waste Chem)		3,921.80	24,622.124
	Total:			
09 SOLIDIFIED RESINS	43 Chem-Nuclear Cement	A S	174.00	36,857.193
	Total: A		174.00	36,857.193
09 SOLIDIFIED RESINS	Chem-Nuclear Cement		174.00	36,857.193
	Total:			
09 SOLIDIFIED RESINS	24 Chemill 30	A U	7.50	1.169
	Total: A		7.50	1.169
09 SOLIDIFIED RESINS	Chemill 30		7.50	1.169
	Total:			
09 SOLIDIFIED RESINS	26 Chemill 3030	A U	7.50	25.509
	Total: A		7.50	25.509
09 SOLIDIFIED RESINS	Chemill 3030		7.50	25.509
	Total:			
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A U	509.83	2,700.662
	Total: A		509.83	2,700.662
09 SOLIDIFIED RESINS	Concrete (Structural)		509.83	2,700.662
	Total:			
09 SOLIDIFIED RESINS	14 Delaware Custom media	A U	408.86	263.053
	Total: A		408.86	263.053
09 SOLIDIFIED RESINS	Delaware Custom Media		408.86	263.053
	Total:			
09 SOLIDIFIED RESINS	47 LN Technologies Cement	A S	181.70	137,653.090
	Total: A		181.70	137,653.090
09 SOLIDIFIED RESINS	47 LN Technologies Cement	R S	289.00	175,526.095
	Total: B		289.00	175,526.095
09 SOLIDIFIED RESINS	LN Technologies Cement		470.70	313,179.185
	Total:			
09 SOLIDIFIED RESINS	96 None Required	A S	176.00	45,071.008
	Total: A		176.00	45,071.008



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	None Required	Total:	176.00	45,071.008
06 SOLIDIFIED RESINS	96 Other Solidification Media	A U Total: A	2,656.70 2,656.70	18,786.562 18,786.562
	Other Solidification Media	Total:	2,656.70	18,786.562
SOLIDIFIED RESINS		Waste Description Total:	8,332.89	441,306.465

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
10 SORBED AQUEOUS LIQUID	31 Aquaset	A U	84.85	7,216.824
		Total: A	84.85	7,216.824
		Total:	84.85	7,216.824
10 SORBED AQUEOUS LIQUID	35 Aquaset I and II	A U	31.56	49.520
		Total: A	31.56	49.520
		Total:	31.56	49.520
10 SORBED AQUEOUS LIQUID	32 Aquaset II	A U	590.30	993.185
		Total: A	590.30	993.185
		Total:	590.30	993.185
10 SORBED AQUEOUS LIQUID	24 Chemsil 30	A U	135.00	396.044
		Total: A	135.00	396.044
		Total:	135.00	396.044
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	5,942.84	16,546.310
		Total: A	5,942.84	16,546.310
		Total:	5,942.84	16,543.310
10 SORBED AQUEOUS LIQUID	25 Chemsil 50	A U	757.50	1,002.897
		Total: A	757.50	1,002.897
		Total:	757.50	1,002.897
10 SORBED AQUEOUS LIQUID	28 Dicaparl HP500	A U	7.50	3.020
		Total: A	7.50	3.020
		Total:	7.50	3.020
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	22,376.65	239,961.640
		Total: A	22,376.65	239,961.640

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
	Floor Dry/Superfine	Total:	22,376.65	239,961.640
10 SORBED AQUEOUS LIQUID	05 Hi Dri	A U	22.50	3,119.500
		Total: A	22.50	3,119.500
	Hi Dri	Total:	22.50	3,119.500
10 SORBED AQUEOUS LIQUID	98 None Required	A U	7.50	1.160
		Total: A	7.50	1.160
	None Required	Total:	7.50	1.160
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	11.51	216.720
		Total: A	11.51	216.720
	Other Sorbent	Total:	11.51	216.720
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	45.00	34.460
		Total: A	45.00	34.460
	Safe-N-Dri	Total:	45.00	34.460
10 SORBED AQUEOUS LIQUID	23 Solid-A-Sorb	A U	262.50	1,270.432
		Total: A	262.50	1,270.432
	Solid-A-Sorb	Total:	262.50	1,270.432
10 SORBED AQUEOUS LIQUID	02 Speedi Dri	A U	511.19	3,097.064
		Total: A	511.19	3,097.064
	Speedi Dri	Total:	511.19	3,097.064
SORBED AQUEOUS LIQUID	Waste Description Total:		30,786.40	273,511.576

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	895.00	70.386
		Total: A	895.00	70.386
	Floor Dry/Superfine	Total:	895.00	70.386
11 SORBED NON-AQUEOUS LIQUID	09 Safe-N-Dri	A U	367.50	171.358
		Total: A	367.50	171.358
	Safe-N-Dri	Total:	367.50	171.358
11 SORBED NON-AQUEOUS LIQUID	02 Speedi Dri	A U	15.00	3.000
		Total: A	15.00	3.000
	Speedi Dri	Total:	15.00	3.000
SORBED NON-AQUEOUS LIQUID	Waste Description Total:		1,277.50	244.744
GRAND TOTAL:			403,398.74	32,087,688.777

Table E-2 (Continued)

Table E-3. Richland 1989 Use of Solidification and Sorbent Media

Waste Descriptor	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (ECAL)
25 ACTIVATED REACTOR HARDWARE	98 None Required	A D	77.00	363,000
25 ACTIVATED REACTOR HARDWARE	98 None Required	C S	26.20	22,214,436.160
	None Required	Total:	103.20	22,214,789.160
25 ACTIVATED REACTOR HARDWARE	02 Speedi Dri	A B	15.00	28,061
	Speedi Dri	Total:	15.00	28,061
ACTIVATED REACTOR HARDWARE	Waste Description Total:		118.20	22,214,827.221

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (MCI)
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celatom	A U	732.50	27,510
		Total: A	732.50	27,510
	Celatom		232.50	27,510
14 ANIMAL CARCASSES IN LIME AND SORBENT	24 Chemsil 30	A U	15.00	3,280
		Total: A	15.00	3,280
	Chemsil 30		15.00	3,280
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	3,088.90	888,984
		Total: A	3,088.90	1,886,984
	Chemsil 3030		3,088.90	1,886,984
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U	90.00	7,864
		Total: A	90.00	7,864
	Chemsil 50		90.00	7,864
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicapril HF200	A U	201.60	72,749
		Total: A	201.60	72,749
	Dicapril HF200		201.60	72,749
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U	9,549.84	33,234,066
		Total: A	9,549.84	33,234,066
	Floor Dry/Superfine		9,549.84	33,234,066
14 ANIMAL CARCASSES IN LIME AND SORBENT	20 Florco	A U	135.00	47,282
		Total: A	135.00	47,282
	Florco		135.00	47,282
14 ANIMAL CARCASSES IN LIME AND SORBENT	05 Hi Dri	A U	412.50	536,540
		Total: A	412.50	536,540



17  
15  
15

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	H1 Dri	Total:	412.50	536.540
14 ANIMAL CARCASSES IN LIME AND SORBENT	15 Other Sorbent	A U	7.50	42.500
		Total: A	7.50	42.500
	Other Sorbent	Total:	7.50	42.500
14 ANIMAL CARCASSES IN LIME AND SORBENT	08 Safe-T-Sorb	A U	30.00	6.606
		Total: A	30.00	6.606
	Safe-T-Sorb	Total:	30.00	6.606
14 ANIMAL CARCASSES IN LIME AND SORBENT	02 Speedi Dri	A U	210.00	1,162.120
		Total: A	210.00	1,162.120
	edi Dri	Total:	210.00	1,162.120
ANIMAL CARCASSES IN LIME AND SORBENT		Waste Description Total:	13,972.84	37,027.511

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	03 Celetom	A U	79.01	110.490
		Total: A	79.01	110.490
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Celetom	Total:	79.01	110.490
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	28 Chemsil 3030	A U	2,661.69	3,281.675
		Total: A	2,661.69	3,281.675
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Chemsil 3030	Total:	2,661.69	3,281.675
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	27 Dicapert HP200	A U	7.50	198.960
		Total: A	7.50	198.960
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Dicapert HP200	Total:	7.50	198.960
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A U	1,264.52	1,053.198
		Total: A	1,264.52	1,053.198
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Floor Dry/Superfine	Total:	1,264.52	1,053.198
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 Hi Dri	A U	90.00	19.920
		Total: A	90.00	19.920
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Hi Dri	Total:	90.00	19.920
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	95 Other Sorbent	A U	15.00	3,941.525
		Total: A	15.00	3,941.525
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Other Sorbent	Total:	15.00	3,941.525
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	08 Safe-T-Sorb	A U	22.50	3,474.100
		Total: A	22.50	3,474.100
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	Safe-T-Sorb	Total:	22.50	3,474.100
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	300.00	8,984.997
		Total: A	300.00	8,984.997

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<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
	Speedi Dri	Total:	300.00	8,984.997
AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	4,440.22	21,084.885

Table E-3 (Continued)

E-3

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	03 Celetom	A U	56.51	4.990
		Total: A	56.51	4.990
		Total:	56.51	4.990
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	102.03	21.151
		Total: A	102.03	21.151
		Total:	102.03	21.151
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	1,156.80	1,862.963
		Total: A	1,156.80	1,862.963
		Total:	1,156.80	1,862.963
04 BIOLOGICAL (NON-CARCASS WASTE)	05 Hi Dri	A U	195.00	302.800
		Total: A	195.00	302.800
		Total:	195.00	302.800
04 BIOLOGICAL (NON-CARCASS WASTE)	98 None Required	A U	105.52	40.100
		Total: A	105.52	40.100
		Total:	105.52	40.100
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	112.50	25.401
		Total: A	112.50	25.401
		Total:	112.50	25.401
04 BIOLOGICAL (NON-CARCASS WASTE)	02 Speedi Dri	A U	179.10	35.569
		Total: A	179.10	35.569
		Total:	179.10	35.569
BIOLOGICAL (NON-CARCASS WASTE)	Waste Description Total:		1,907.46	2,292.774

Table E-3 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	12 Concrete (Structural)	A U	262.50	13,548.689
		Total: A	262.50	13,548.689
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	100.00	16,197.520
		Total: C	100.00	16,197.520
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	620.00	122,388.749
		Total: C	620.00	122,388.749
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	1,050.80	17,772.807
		Total: A	1,050.80	17,772.807
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	15.00	3.743
		Total: A	15.00	3.743
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	132.40	18,165.990
		Total: A	132.40	18,165.990
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	99.80	106,214.376
		Total: B	99.80	106,214.376
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	49.90	40,946.920
		Total: C	49.90	40,946.920
	blank	Total:	149.70	147,161.296
CARTRIDGE-TYPE FILTER MEDIA	Waste Description Total:		2,330.40	335,238.794

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	03 Celetom	A U	11.60	.340
		Total: A	11.60	.340
		Total:	11.60	.340
21 COMPACTED DRY ACTIVE WASTE	12 Concrete (Structural)	A U	4,057.50	2,374.445
		Total: A	4,057.50	2,374.445
		Total:	4,057.50	2,374.445
21 COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	707.00	3,831.039
		Total: A	707.00	3,831.039
		Total:	707.00	3,831.039
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	58,223.84	206,015.625
21 COMPACTED DRY ACTIVE WASTE	98 None Required	Total: A	58,223.84	206,015.625
		C S	130.80	1,068,295.622
		Total: C	130.80	1,068,295.622
	None Required	Total:	58,354.64	1,274,311.147
21 COMPACTED DRY ACTIVE WASTE	02 Speedi Dri	A U	737.20	675.291
		Total: A	737.20	675.291
		Total:	737.20	675.291
21 COMPACTED DRY ACTIVE WASTE	blank	A U	13,780.00	40,253.424
		Total: A	13,780.00	40,253.424
		Total:	13,780.00	40,253.424
COMPACTED DRY ACTIVE WASTE		Waste Description Total:	77,647.94	1,321,445.886



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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
08 DEWATERED RESINS	04 Floor Dry/Superfine	A U	19.01	.451
		Total: A	19.01	.451
	Floor Dry/Superfine	Total:	19.01	.451
08 DEWATERED RESINS	98 None Required	A U	13,364.10	449,336.687
08 DEWATERED RESINS	98 None Required	Total: A	13,364.10	449,336.687
		B S	2,607.00	2,343,190.875
08 DEWATERED RESINS	98 None Required	Total: B	2,607.00	2,343,190.875
		C S	989.40	8,796,882.524
		Total: C	989.40	8,796,882.524
	None Required	Total:	18,960.50	11,589,410.091
08 DEWATERED RESINS	09 Safe-N-Dri	A U	997.00	5,525.298
		Total: A	997.00	5,525.298
	Safe-N-Dri	Total:	997.00	5,525.298
08 DEWATERED RESINS	blank	A U	13,343.10	452,603.452
08 DEWATERED RESINS	blank	Total: A	13,343.10	452,603.452
		B S	527.00	720,712.352
08 DEWATERED RESINS	blank	Total: B	527.00	720,712.352
		C S	130.80	181,878.987
		Total: C	130.80	181,878.987
	blank	Total:	14,000.90	1,365,192.898
DEWATERED RESINS	Waste Description Total:		31,877.41	12,961,128.648

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
02 DRY SOLID	31 Aquaset	A U	37.50	285.870
		Total: A	37.50	285.870
	Aquaset	Total:	37.50	285.870
02 DRY SOLID	43 Chem-Nuclear Cement	A S	.66	.015
02 DRY SOLID	37 Chem-Nuclear Cement	A U	11.60	46.084
		Total: A	12.28	46.099
	Chem-Nuclear Cement	Total:	12.28	46.099
02 DRY SOLID	26 Chemsil 3030	A U	3,169.55	6,389.400
		Total: A	3,169.55	6,389.400
	Chemsil 3030	Total:	3,169.55	6,389.400
02 DRY SOLID	25 Chemsil 50	A U	191.51	270.658
		Total: A	191.51	270.658
	Chemsil 50	Total:	191.51	270.658
02 DRY SOLID	44 Concrete (2500 psi)	A S	22.50	9.771
02 DRY SOLID	44 Concrete (2500 psi)	A U	207.80	387,450.680
		Total: A	230.30	397,490.451
02 DRY SOLID	44 Concrete (2500 psi)	B S	19.53	38,820.000
		Total: B	19.53	38,820.000
02 DRY SOLID	44 Concrete (2500 psi)	C S	401.51	63,289.658
		Total: C	401.51	63,289.658
	Concrete (2500 psi)	Total:	651.34	499,600.127
02 DRY SOLID	12 Concrete (Structural)	A U	2,667.62	3,419.000
		Total: A	2,667.62	3,419.000
02 DRY SOLID	12 Concrete (Structural)	B S	26.51	22,347.687
		Total: B	26.51	22,347.687
02 DRY SOLID	12 Concrete (Structural)	C S	97.50	6,380.229
		Total: C	97.50	6,380.229
	Concrete (Structural)	Total:	2,791.63	32,146.920

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Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
02 DRY SOLID	14 Delaware Custom Media	A U	1,209.18	2,368.126
		Total: A	1,209.18	2,368.126
	Delaware Custom Media	Total:	1,209.18	2,368.126
02 DRY SOLID	27 Dicapert HP200	A U	22.50	42.005
		Total: A	22.50	42.005
	Dicapert HP200	Total:	22.50	42.005
02 DRY SOLID	15 Envirostone	A U	281.06	16,255.708
		Total: A	281.06	16,255.708
	Envirostone	Total:	281.06	16,255.708
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	110.00	28,868.660
		Total: B	110.00	28,868.660
	Envirostone (U.S. Gypsum Cement)	Total:	110.00	28,868.660
02 DRY SOLID	04 Floor Dry/Superfine	A U	6,277.50	54,576.352
		Total: A	6,274.50	54,576.352
02 DRY SOLID	04 Floor Dry/Superfine	C S	450.00	179,149.304
		Total: C	450.00	179,149.304
		Total:	6,724.50	233,725.656
02 DRY SOLID	05 Hi Dri	A U	855.00	1,234.340
		Total: A	855.00	1,234.340
		Total:	855.00	1,234.340
02 DRY SOLID	98 None Required	A U	75,218.31	1,726,015.904
		Total: A	75,218.31	1,726,015.904
02 DRY SOLID	98 None Required	B S	90.00	54,302,000.000
		Total: B	90.00	54,302,000.000
02 DRY SOLID	98 None Required	C S	134.40	91.578
		Total: C	134.40	91.578

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	None Required	Total:	75,442.71	56,028,107.482
02 DRY SOLID	96 Other Solidification Media	A U	82.50	84.592
		Total: A	82.50	84.592
	Other Solidification Media	Total:	82.50	84.592
02 DRY SOLID	95 Other Sorbent	A U	4.01	.020
		Total: A	4.01	.020
	Other Sorbent	Total:	4.01	.020
02 DRY SOLID	09 Safe-N-Dri	A U	2,647.44	9,305.314
		Total: A	2,647.44	9,305.314
	Safe-N-Dri	Total:	2,647.44	9,305.314
02 DRY SOLID	23 Solid-A-Sorb	A U	57.50	79.201
		Total: A	57.50	79.201
	Solid-A-Sorb	Total:	57.50	79.201
02 DRY SOLID	02 Speedi Dri	A U	29,092.50	6,478.060
		Total: A	29,092.50	6,478.060
	Speedi Dri	Total:	29,092.50	6,478.060
02 DRY SOLID	48 Stock Equipment Cement	A U	8.17	1.753
		Total: A	8.17	1.753
	Stock Equipment Cement	Total:	8.17	1.753
02 DRY SOLID	blank	A U	28,597.42	70,497.288
		Total: A	28,597.42	70,497.288
02 DRY SOLID	blank	C S	50.00	38,775.734
		Total: C	50.00	38,775.734

Table E-3 (Continued)

<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
	blank	Total:	28,647.42	109,273.022
DRY SOLID		Waste Description Total:	152,038.30	66,964,562.993

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
20 EVAPORATOR BOTTOMS	35 Bitumen (ATI & Waste Chem)	A U	682.60	5,444.439
		Total: A	682.60	5,444.439
	Bitumen (ATI & Waste Chem)	Total:	682.60	5,444.439
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	97.50	11,446.601
		Total: A	97.50	11,446.601
	Concrete (Structural)	Total:	97.50	11,446.601
20 EVAPORATOR BOTTOMS	15 Envirostone	A U	1,196.40	2,650.090
		Total: A	1,196.40	2,650.090
	Envirostone	Total:	1,196.40	2,650.090
20 EVAPORATOR BOTTOMS	98 None Required	A U	7.50	7.133
		Total: A	7.50	7.133
	None Required	Total:	7.50	7.133
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	12,951.00	18,371.250
		Total: A	12,951.00	18,371.250
	Other Solidification Media	Total:	12,951.00	18,371.250
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	1,246.00	11,935.710
		Total: A	1,246.00	11,935.710
	Westinghouse-Hittman Cement	Total:	1,246.00	11,935.710
EVAPORATOR BOTTOMS	Waste Description Total:		16,181.00	49,855.223



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Waste Description		Solidification / Absorption Media		Waste Class	Volume (cu.ft.)	Activity (mCi)
15	GAS	98	None Required	A U	315.00	123.494
				Total: A	315.00	123.494
			None Required	Total:	315.00	123.494
15	GAS	95	Other Sorbent	A U	52.50	26.790
				Total: A	52.50	26.790
			Other Sorbent	Total:	52.50	26.790
	GAS		Waste Description Total:		367.50	150.284

Table E-3 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBE	05 Hi Dri	A U	7.50	2.120
		Total: A	7.50	2.120
	Hi Dri	Total:	7.50	2.120
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBE	98 None Required	A U	4.01	.900
		Total: A	4.01	.900
	None Required	Total:	4.01	.900
NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	11.51	3.020

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	1,003.10	36,145.155
		Total: A	1,003.10	36,145.155
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	33.86	19.536
		Total: A	33.86	19.536
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	182.00	21,780.769
		Total: B	182.00	21,780.769
24 NON-CARTRIDGE FILTER MEDIA	blank	A U	2,298.80	1,443,232.371
		Total: A	2,298.80	1,443,232.371
NON-CARTRIDGE FILTER MEDIA	Waste Description Total:		3,517.76	1,501,177.831

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
22 NON-COMPACTED DRY ACTIVE WASTE	37 Chem-Nuclear Cement	A U	313.00	229.688
		Total: A	313.00	229.688
	Chem-Nuclear Cement	Total:	313.00	229.688
22 NON-COMPACTED DRY ACTIVE WASTE	28 Chemsil 3030	A U	225.00	21.000
		Total: A	225.00	21.000
	Chemsil 3030	Total:	225.00	21.000
22 NON-COMPACTED DRY ACTIVE WASTE	44 Concrete (2500 psi)	C S	1.34	25.000
		Total: C	1.34	25.000
	Concrete (2500 psi)	Total:	1.34	25.000
22 NON-COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	11.51	150
		Total: A	11.51	150
	Floor Dry/Superfine	Total:	11.51	150
22 NON-COMPACTED DRY ACTIVE WASTE	21 Florco X	A U	22.50	12.930
		Total: A	22.50	12.930
	Florco X	Total:	22.50	12.930
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	A U	18,844.40	20,306.553
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	Total: A	18,844.40	20,306.553
		C S	50.00	24,642.001
	None Required	Total: C	50.00	24,642.001
		Total:	18,894.40	44,948.554
22 NON-COMPACTED DRY ACTIVE WASTE	09 Safe-N-Dri	A U	776.90	1,503.710
		Total: A	776.90	1,503.710
	Safe-N-Dri	Total:	776.90	1,503.710
22 NON-COMPACTED DRY ACTIVE WASTE	02 Speedi Dri	A U	143.02	254.363
		Total: A	143.02	254.363

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	Speedi Dri	Total:	143.02	254.363
22 NON-COMPACTED DRY ACTIVE WASTE	blank	A U	10,551.50	5,954.996
		Total: A	10,551.50	5,954.996
	blank	Total:	10,551.50	5,954.996
NON-COMPACTED DRY ACTIVE WASTE	Waste Description Total:		30,939.17	52,950.391

Table E-3 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
99 OTHER	blank	A U	150.70	63,538.962
		Total: A	150.70	63,538.962
	blank	Total:	150.70	63,538.972
OTHER	Waste Description Total:		150.70	63,538.962

Table E-3 (Continued)



<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	93.59	1.490
		Total: A	93.59	1.490
	Delaware Custom Media	Total:	93.59	1.490
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	2,994.20	44,230.093
		Total: A	2,994.20	44,230.093
	Other Solidification Media	Total:	2,994.20	44,230.093
SOLIDIFIED CHELATES		Waste Description Total:	3,087.79	44,231.583

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
03 SOLIDIFIED LIQUIDS	31 Aquaset	A U	147.45	519.042
	Total:	A	147.45	519.042
	Aquaset	Total:	147.45	519.042
03 SOLIDIFIED LIQUIDS	35 Aquaset I and II	A U	325.80	2,087.871
	Total:	A	325.80	2,087.871
	Aquaset I and II	Total:	325.80	2,087.871
03 SOLIDIFIED LIQUIDS	03 Celetom	A U	15.00	97.750
	Total:	A	15.00	97.750
	Celetom	Total:	15.00	97.750
03 SOLIDIFIED LIQUIDS	37 Chem-Nuclear Cement	A U	30.00	7.304
	Total:	A	30.00	7.304
	Chem-Nuclear Cement	Total:	30.00	7.304
03 SOLIDIFIED LIQUIDS	44 Concrete (2500 psi)	C S	15.00	1,953.096
	Total:	C	15.00	1,953.096
	Concrete (2500 psi)	Total:	15.00	1,953.096
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	4,709.90	807,158.866
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B S	15.00	1,550,000.000
	Total:	B	15.00	1,550,000.000
	Concrete (Structural)	Total:	4,724.90	2,357,158.866
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	1,701.60	16,765.279
	Total:	A	1,701.60	16,765.279
	Delaware Custom Media	Total:	1,701.60	16,765.279
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	130.51	203.427
	Total:	A	130.51	203.467

Table E-3 (Continued)

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (MCi)
	Envirostone	Total:	130.51	203.467
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	38.11	60.548
	Floor Dry/Superfine	Total:	38.11	60.548
03 SOLIDIFIED LIQUIDS	98 None Required	A U	167.00	10,622.443
	None Required	Total:	167.00	10,622.443
03 SOLIDIFIED LIQUIDS	02 Speedi Dri	A U	127.50	4,692.375
	Speedi Dri	Total:	127.50	4,692.375
SOLIDIFIED LIQUIDS		Waste Description Total:	7,422.87	2,394,168.041

<u>Waste Description</u>	<u>Solidification / Absorption Media</u>	<u>Waste Class</u>	<u>Volume (cu.ft.)</u>	<u>Activity (mCi)</u>
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	7,563.80	188.635
		Total: A	7,563.80	188.635
	Aquaset I and II	Total:	7,563.80	188.635
27 SOLIDIFIED OIL	43 Chem-Nuclear Cement	A S	207.40	.002
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	1,210.70	4,198.014
		Total: A	1,418.10	4,198.016
	Chem-Nuclear Cement	Total:	1,418.10	4,198.016
27 SOLIDIFIED OIL	15 Envirostone	A U	755.70	327.975
		Total: A	755.70	327.975
	Envirostone	Total:	755.70	327.975
27 SOLIDIFIED OIL	39 Petroset I and II	A U	322.50	37.780
		Total: A	322.50	37.780
	Petroset I and II	Total:	322.50	37.780
27 SOLIDIFIED OIL	30 Petroset II	A U	247.50	18.090
		Total: A	247.50	18.090
	Petroset II	Total:	247.50	18.090
SOLIDIFIED OIL	Waste Description Total:		10,307.60	4,770.476

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Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	1,045.90	5,194.591
		Total: A	1,045.90	5,194.591
	Bitumen (ATI & Waste Chem)	Total:	1,045.90	5,194.591
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	181.70	120,706.000
		Total: B	181.70	120,706.000
	Concrete (Structural)	Total:	181.70	120,706.000
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	457.50	154.297
		Total: A	457.50	154.297
	Delaware Custom Media	Total:	457.50	154.297
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	340.40	275,780.522
		Total: B	340.40	275,780.522
	Envirostone (U.S. Gypsum Cement)	Total:	340.40	275,780.522
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	107.00	273,444.958
		Total: B	107.00	273,444.958
	LN Technologies Cement	Total:	107.00	273,444.958
09 SOLIDIFIED RESINS	96 None Required	A U	15.00	738.201
		Total: A	15.00	738.201
	None Required	Total:	15.00	738.201
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	1,907.10	3,435.918
		Total: A	1,907.10	3,435.918
	Other Solidification Media	Total:	1,907.10	3,435.918
SOLIDIFIED RESINS	Waste Description Total:		4,054.60	679,454.487

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Table E-3 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
10 SORBED AQUEOUS LIQUID	31 Aquaset	A U	37.97	3,349.854
		Total: A	37.97	3,349.854
		Total:	37.97	3,349.854
10 SORBED AQUEOUS LIQUID	32 Aquaset II	A U	392.01	3,351.902
		Total: A	392.01	3,351.902
		Total:	392.01	3,351.902
10 SORBED AQUEOUS LIQUID	03 Celetom	A U	112.50	78.140
		Total: A	112.50	78.140
		Total:	112.50	78.140
10 SORBED AQUEOUS LIQUID	24 Chemsil 30	A U	7.50	7.730
		Total: A	7.50	7.730
		Total:	7.50	7.730
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	8,365.94	10,857.412
		Total: A	8,365.94	10,857.412
		Total:	8,365.94	10,857.412
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	15.00	.380
		Total: A	15.00	.380
		Total:	15.00	.380
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	120.61	51.375
		Total: A	120.61	51.375
		Total:	120.61	51.375
10 SORBED AQUEOUS LIQUID	27 Dicaparl HP200	A U	7.50	75.990
		Total: A	7.50	75.990

Table E-3 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
	Dicaperl HP200	Total:	7.50	75.990
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	36,887.20	208,789.168
		Total: A	36,887.20	208,789.168
	Floor Dry/Superfine	Total:	36,887.20	208,789.168
10 SORBED AQUEOUS LIQUID	05 Hi Dri	A U	22.50	9,322.800
		Total: A	22.50	9,322.800
	Hi Dri	Total:	22.50	9,322.800
10 SORBED AQUEOUS LIQUID	06 Other Sorbent	A U	11.51	2.043
		Total: A	11.51	2.043
	Other Sorbent	Total:	11.51	2.043
10 SORBED AQUEOUS LIQUID	30 Petroset II	A U	7.50	24.791
		Total: A	7.50	24.791
	Petroset II	Total:	7.50	24.791
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	49.01	62.475
		Total: A	49.01	62.475
	Safe-N-Dri	Total:	49.01	62.475
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	15.00	23.656
		Total: A	15.00	23.656
	Safe-T-Sorb	Total:	15.00	23.656
10 SORBED AQUEOUS LIQUID	23 Solid-A-Sorb	A U	112.50	517.575
		Total: A	112.50	517.575
	Solid-A-Sorb	Total:	112.50	517.575
10 SORBED AQUEOUS LIQUID	02 Speedi Dri	A U	1,173.79	176,509.771

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Table E-3 (Continued)

Table E-3 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (BCI)
		Total: A	1,173.79	176,509.771
	Speedi Dri	Total:	1,173.79	176,509.771
SORBED AQUEOUS LIQUID		Waste Description Total:	47,338.04	413,025.962

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
11 SORBED NON-AQUEOUS LIQUID	26 Chemsil 3030	A U	7.50	.017
		Total: A U	7.50	.017
	Chemsil 3030	Total:	7.50	.017
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	334.01	13.026
		Total: A U	334.01	13.026
	Floor Dry/Superfine	Total:	334.01	13.026
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	130.80	834.849
		Total: A S	130.80	834.849
	Other Sorbent	Total:	130.80	834.849
11 SORBED NON-AQUEOUS LIQUID	02 Speedi Dri	A U	7.50	5.127
		Total: A U	7.50	5.127
	Speedi Dri	Total:	7.50	5.127
SORBED NON-AQUEOUS LIQUID	Waste Description Total:		479.81	853.019
GRAND TOTAL:			408,291.12	99,061,766.869

Table E-4. Beatty 1987 Use of Solidification and Sorbent Media

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U	1,399.90	760.415
		Total: A	1,399.90	760.415
14 ANIMAL CARCASSES IN LIME AND SORBENT	99 Other	A U	202.50	32.668
		Total: A	202.50	32.668
			202.50	32.668
			1,602.40	793.083
ANIMAL CARCASSES IN LIME AND SORBENT		Waste Description Total:		

Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A D	22.50	6.011
		Total: A	22.50	6.011
	Floor Dry/Superfine	Total:	22.50	6.011
AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	22.50	6.011

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	182.80	5.859
		Total: A	182.80	5.859
	Floor Dry/Superfine	Total:	182.80	5.859
BIOLOGICAL (NON-CARCASS WASTE)		Waste Description Total:	182.80	5.859

Table E-4 (Continued)



Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu ft.)	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	blank	A B	543.10	2.012 960
		Total: A	543.10	2.012 960
	blank	Total:	543.10	2.012 960
COMPACTED DRY ACTIVE WASTE	Waste Description Total:		543.10	2.012 960

Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (pCi/l.)
08 DEMATERED RESINS	blank	A U	2,353.60	887,114
		Total: A	2,353.60	887,114
	blank	Total:	2,353.60	887,114
DEMATERED RESINS	Waste Description Total:		2,353.60	887,114

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
02 DRY SOLID	12 Concrete (Structural)	A S	360 61	1,412,585
02 DRY SOLID	12 Concrete (Structural)	A U	62,010 64	86,682,974
		Total: A	62,371 25	88,095,559
02 DRY SOLID	12 Concrete (Structural)	B S	181 54	2,080,183,385
		Total: B	181 54	2,080,183,385
02 DRY SOLID	12 Concrete (Structural)	C S	11 50	122,746,000
		Total: C	11 50	122,746,000
	Concrete (Structural)	Total:	62,564 29	2,291,024,944
02 DRY SOLID	01 Diatomaceous Earth	A U	588 00	1,985,279
		Total: A	588 00	1,985,279
	Diatomaceous Earth	Total:	588 00	1,985,279
02 DRY SOLID	15 Envirostone	A U	15 00	1,972
		Total: A	15 00	1,972
02 DRY SOLID	15 Envirostone	C S	12 22	32,800,000
		Total: C	12 22	32,800,000
	Envirostone	Total:	27 22	32,801,972
02 DRY SOLID	04 Floor Dry/Superfine	A U	252 50	417,045
		Total: A	252 50	417,045
	Floor Dry/Superfine	Total:	252 50	417,045
02 DRY SOLID	98 None Required	A U	412 50	85,760
		Total: A	412 50	85,760
	None Required	Total:	412 50	85,760
02 DRY SOLID	99 Other	A U	781 56	2,814,598
		Total: A	781 56	2,814,598
02 DRY SOLID	99 Other	B S	52 50	5,300,000,000
		Total: B	52 50	5,300,000,000
	Other	Total:	834 06	6,302,814,598
02 DRY SOLID	08 Safe-T-Sorb	A U	17,664 00	200,330

Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
		Total: A	17,664.00	200.330
	Safe-T-Sorb	Total:	17,664.00	200.330
02 DRY SOLID	02 Speedi Dri	A B	12.03	756
		Total: A	12.03	756
	Speedi Dri	Total:	12.03	756
02 DRY SOLID	10 Zonolite Grade#4	A B	12,079.70	11,016.896
		Total: A	12,079.70	11,016.896
	Zonolite Grade#4	Total:	12,079.70	11,016.896
02 DRY SOLID	blank	A S	83.02	2,730.578
02 DRY SOLID	blank	A B	187,993.59	925,890.118
		Total: A	188,076.61	928,620.696
02 DRY SOLID	blank	B S	53.54	9,887.639
		Total: B	53.54	9,887.639
02 DRY SOLID	blank	C S	7.50	825.250
		Total: C	7.50	825.250
	blank	Total:	188,137.65	939,351.585
DRY SOLID		Waste Description Total:	282,571.85	9,579,698.265

11-00-03

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
07 FILTER MEDIA	12 Concrete (Structural)	A U	30.00	605.370
		Total: A	30.00	605.370
07 FILTER MEDIA	Concrete (Structural)		30.00	605.370
		Total:	30.00	605.370
07 FILTER MEDIA	14 Delaware Custom Media	A S	49.90	1,532.530
		Total: A	49.90	1,532.530
07 FILTER MEDIA	Delaware Custom Media		49.90	1,532.530
		Total:	49.90	1,532.530
07 FILTER MEDIA	04 Floor Dry/Superfine	A U	52.50	75.900
07 FILTER MEDIA	04 Floor Dry/Superfine	Total: A	52.50	75.900
		Total: B	49.90	4,435.175
	Floor Dry/Superfine		102.40	4,511.075
		Total:	102.40	4,511.075
FILTER MEDIA	Waste Description Total:		182.30	6,648.975

Table E-4 (Continued)

Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
15 GAS	blank	A U	22.50	4.051
		Total: A	22.50	4.051
	blank	Total:	22.50	4.051
GAS	Waste Description Total:		22.50	4.051



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
99 OTHER	12 Concrete (Structural)	A U	23.58	1,114.376
		Total: A	23.58	1,114.376
	Concrete (Structural)	Total:	23.58	1,114.376
99 OTHER	99 Other	A U	660.00	114.185
		Total: A	660.00	114.185
	Other	Total:	660.00	114.185
99 OTHER	blank	A U	4.01	10.070
		Total: A	4.01	10.070
	blank	Total:	4.01	10.070
OTHER	Waste Description Total:		687.59	1,238.631

Table E-4 (Continued)

Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (pCi)
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A S	13,040.00	5,223,635
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	12,113.30	581,123,907
		Total: A	25,153.30	587,417,542
	Concrete (Structural)	Total:	25,153.30	587,417,542
03 SOLIDIFIED LIQUIDS	15 Eavirastone	A U	2,280.40	2,419,650
		Total: A	2,280.40	2,419,650
	Eavirastone	Total:	2,280.40	2,419,650
03 SOLIDIFIED LIQUIDS	99 Other	A S	206.00	1,447,303
03 SOLIDIFIED LIQUIDS	99 Other	A U	8,114.24	11,552,819
		Total: A	8,320.24	13,000,122
	Other	Total:	8,320.24	13,000,122
03 SOLIDIFIED LIQUIDS	10 Zonolite Grade#1	A U	22.50	35,600
		Total: A	22.50	35,600
	Zonolite Grade#1	Total:	22.50	35,600
SOLIDIFIED LIQUIDS		Waste Description Total:	35,776.44	602,872,914

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A S	984.50	270,350.625
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A U	5,846.60	436,832.755
		Total: A	6,831.10	707,183.380
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	339.50	195,365.954
		Total: B	339.50	195,365.954
	Concrete (Structural)	Total:	7,170.60	902,549.334
09 SOLIDIFIED RESINS	99 Other	A U	15.00	5.804
		Total: A	15.00	5.804
	Other	Total:	15.00	5.804
09 SOLIDIFIED RESINS	blank	A U	190.00	23.725
		Total: A	190.00	23.725
	blank	Total:	190.00	23.725
SOLIDIFIED RESINS	Waste Description Total:		7,375.60	902,578.863

Table E-4 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (#Ci)
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	454.16	653.011
		Total: A	454.16	653.011
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	411.36	1,029.391
		Total: A	411.36	1,029.391
10 SORBED AQUEOUS LIQUID	99 Other	A U	8.02	14.000
		Total: A	8.02	14.000
10 SORBED AQUEOUS LIQUID	02 Speedi Dri	A U	98.54	46.800
		Total: A	98.54	46.800
SORBED AQUEOUS LIQUID			972.08	1,743.202
		Waste Description Total:		

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
01 VIALS	12 Concrete (Structural)	A U	75.00	882.506
		Total: A	75.00	882.506
	Concrete (Structural)	Total:	75.00	882.50
01 VIALS	10 Zonolite Grade#4	A U	30.00	49.400
		Total: A	30.00	49.400
	Zonolite Grade#4	Total:	30.00	49.400
01 VIALS	blank	A U	10.77	1,420.000
		Total: A	10.77	1,420.000
	blank	Total:	10.77	1,420.000
VIALS	Waste Description Total:		115.77	2,351.906
GRAND TOTAL:			332,408.63	11,100,841.834

Table E-5. Beatty 1986 Use of Solidification and Sorbent Media

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Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A B	900.50	314.459
		Total: A	900.50	314.459
	Floor Dry/Superfine	Total:	900.50	314.459
14 ANIMAL CARCASSES IN LIME AND SORBENT	95 Other Sorbent	A B	7.50	4.283
		Total: A	7.50	4.283
	Other Sorbent	Total:	7.50	4.283
ANIMAL CARCASSES IN LIME AND SORBENT		Waste Description Total:	908.00	318.742



Table E-5 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu ft.)	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A B	60.00	78.261
		Total: A	60.00	78.261
	Floor Dry/Superfine	Total:	60.00	78.261
AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	60.00	78.261

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	60.00	4,574.786
		Total: A	60.00	4,574.786
	Floor Dry/Superfine	Total:	60.00	4,574.786
04 BIOLOGICAL (NON-CARCASS WASTE)	08 Safe-T-Sorb	A U	15.00	4.739
		Total: A	15.00	4.739
	Safe-T-Sorb	Total:	15.00	4.739
BIOLOGICAL (NON-CARCASS WASTE)	Waste Description Total:		75.00	4,579.525

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	A U	112.50	157.261
		Total: A	112.50	157.261
	Floor Dry/Superfine	Total:	112.50	157.261
CARTRIDGE-TYPE FILTER MEDIA		Waste Description Total:	112.50	157.261

E-100

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	44 Concrete (2500 psi)	C S	11.50	229,502.000
		Total: C	11.50	229,502.000
	Concrete (2500 psi)	Total:	11.50	229,502.000
21 COMPACTED DRY ACTIVE WASTE	12 Concrete (Structural)	A U	470.60	313.471
		Total: A	470.60	313.471
	Concrete (Structural)	Total:	470.60	313.471
21 COMPACTED DRY ACTIVE WASTE	15 Envirostone	A U	202.00	17.530
		Total: A	202.00	17.530
	Envirostone	Total:	202.00	17.530
21 COMPACTED DRY ACTIVE WASTE	96 None Required	A U	29,067.50	116,342.426
		Total: A	29,067.50	116,342.426
	None Required	Total:	29,067.50	116,342.426
21 COMPACTED DRY ACTIVE WASTE	22 Opalex	A U	1,450.00	25.000
		Total: A	1,450.00	25.000
	Opalex	Total:	1,450.00	25.000
21 COMPACTED DRY ACTIVE WASTE	39 Petroset I and II	A U	7.50	26.116
		Total: A	7.50	26.116
	Petroset I and II	Total:	7.50	26.116
21 COMPACTED DRY ACTIVE WASTE	blank	A S	30.00	566.984
21 COMPACTED DRY ACTIVE WASTE	blank	A U	6,129.50	4,303.901
		Total: A	6,159.50	4,868.985
	blank	Total:	6,159.50	4,868.985
COMPACTED DRY ACTIVE WASTE	Waste Description Total:		37,368.60	351,093.528

Table E-5 (Continued)

E-101

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
08 DEWATERED RESINS	98 None Required	A U	1,108.00	991,522
		Total: A	1,108.00	991,522
	None Required	Total:	1,108.00	991,522
08 DEWATERED RESINS	blank	A U	406.30	13,878,621
		Total: A	406.30	13,878,621
	blank	Total:	406.30	13,878,621
DEWATERED RESINS		Waste Description Total:	1,514.30	14,870,143

Table E-5 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
02 DRY SOLID	NA	A U	54	.001
		Total: A	54	.001
		Total:	54	.001
02 DRY SOLID	43 Chem-Nuclear Cement	B S	7.50	2,000.000
		Total: B	7.50	2,000.000
	Chem-Nuclear Cement	Total:	7.50	2,000.000
02 DRY SOLID	44 Concrete (2500 psi)	A S	19.01	1,179.669
02 DRY SOLID	44 Concrete (2500 psi)	A U	7.50	3,663.969
		Total: A	26.51	4,842.738
02 DRY SOLID	44 Concrete (2500 psi)	B S	238.05	2,220,278.960
		Total: B	238.05	2,220,278.960
02 DRY SOLID	44 Concrete (2500 psi)	C S	76.52	547,344.060
		Total: C	76.52	547,344.060
	Concrete (2500 psi)	Total:	341.14	2,772,465.758
02 DRY SOLID	12 Concrete (Structural)	A S	217.50	1,248.652
02 DRY SOLID	12 Concrete (Structural)	A U	2,075.66	42,219.836
		Total: A	2,293.16	43,468.488
02 DRY SOLID	12 Concrete (Structural)	B S	72.05	12,684.498
		Total: B	72.05	12,684.498
02 DRY SOLID	12 Concrete (Structural)	C S	22.50	979.458
		Total: C	22.50	979.458
	Concrete (Structural)	Total:	2,387.71	57,132.444
02 DRY SOLID	15 Envirostone	A U	4.01	.513
		Total: A	4.01	.513
	Envirostone	Total:	4.01	.513
02 DRY SOLID	04 Floor Dry/Superfine	A U	923.88	892.123
		Total: A	923.88	892.123
	Floor Dry/Superfine	Total:	923.88	892.123



E-103

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
02 DRY SOLID	98 None Required	A U	10,169.57	25,692.128
02 DRY SOLID	98 None Required	Total: A	10,169.57	25,692.128
02 DRY SOLID	98 None Required	B S	79.01	28,484.300
02 DRY SOLID	98 None Required	Total: B	79.01	28,484.300
		C S	97.50	1,773,512.401
		Total: C	97.50	1,773,512.401
	None Required	Total:	10,346.08	1,827,688.829
02 DRY SOLID	99 Safe-N-Dri	A U	60.00	360
		Total: A	60.00	360
	Safe-V-Dri	Total:	60.00	360
02 DRY SOLID	98 Safe-T-Sorb	A U	4,857.60	45,920
		Total: A	4,857.60	45,920
	Safe-T-Sorb	Total:	4,857.60	45,920
02 DRY SOLID	blank	A U	4,800.64	7,359.482
02 DRY SOLID	blank	Total: A	4,800.64	7,359.482
02 DRY SOLID	blank	B S	7.50	361.419
		Total: B	7.50	361.419
	blank	C S	12.03	27.401
		Total: C	12.03	27.401
	blank	Total:	4,820.17	7,748.302
DRY SOLID		Waste Description Total:	23,748.63	4,867,974.250

Table E-5 (Continued)

E-104

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
20 EVAPORATOR BOTTOMS	37 Chem-Nuclear Cement	A U	3,915.90	6,807.394
		Total: A	3,915.90	6,807.394
20 EVAPORATOR BOTTOMS	Chem-Nuclear Cement	Total:	3,915.90	6,807.394
20 EVAPORATOR BOTTOMS	15 Envirostone	A U	296.90	116.572
		Total: A	296.90	116.572
20 EVAPORATOR BOTTOMS	Envirostone	Total:	296.90	116.572
20 EVAPORATOR BOTTOMS	96 None Required	A U	115.30	1,319.140
		Total: A	115.30	1,319.140
20 EVAPORATOR BOTTOMS	None Required	Total:	115.30	1,319.140
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	5,200.30	822,699.032
		Total: A	5,200.30	822,699.032
20 EVAPORATOR BOTTOMS	Other Solidification Media	Total:	5,200.30	822,699.032
EVAPORATOR BOTTOMS	Waste Description Total:		9,528.40	830,942.138

Table E-5 (Continued)

E-105

Waste Description		Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
15	GAS	43 Chem-Nuclear Cement	B S	75.00	989,015.020
			Total: B	75.00	989,015.020
		Chem-Nuclear Cement	Total:	75.00	989,015.020
15	GAS	44 Concrete (2500 psi)	B S	8.02	160,000.000
			Total: B	8.02	160,000.000
		Concrete (2500 psi)	Total:	8.02	160,000.000
15	GAS	98 None Required	A U	14.33	65,225.600
			Total: A	14.33	65,225.600
		None Required	Total:	14.33	65,225.600
15	GAS	blank	A U	7.50	1.592
			Total: A	7.50	1.592
		blank	Total:	7.50	1.592
GAS		Waste Description Total:		104.85	1,214,242.212

Table E-5 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (#Ci)
24 NON-CARTRIDGE FILTER MEDIA	04 Floor Dry/Superfine	A U	90.00	1,488.981
		Total: A	90.00	1,488.981
	Floor Dry/Superfine	Total:	90.00	1,488.981
24 NON-CARTRIDGE FILTER MEDIA	49 Westinghouse-Hittman Cement	A S	417.30	385,583.395
		A U	278.20	87,924.011
24 NON-CARTRIDGE FILTER MEDIA	49 Westinghouse-Hittman Cement	Total: A	695.50	473,507.406
	Westinghouse-Hittman Cement	Total:	695.50	473,507.406
NON-CARTRIDGE FILTER MEDIA		Waste Description Total:	785.50	474,996.387

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
22 NON-COMPACTED DRY ACTIVE WASTE	44 Concrete (2500 psi)	B S	15.00	1,374,858
		Total: B	15.00	1,374,858
		Concrete (2500 psi)	Total:	15.00
22 NON-COMPACTED DRY ACTIVE WASTE	12 Concrete (Structural)	A U	213.00	17,836
		Total: A	213.00	17,836
		Concrete (Structural)	Total:	213.00
22 NON-COMPACTED DRY ACTIVE WASTE	15 Envirostone	A U	7.50	9,234
		Total: A	7.50	9,234
		Envirostone	Total:	7.50
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	A U	5,776.00	5,685,869
		Total: A	5,776.00	5,685,869
		None Required	Total:	5,776.00
22 NON-COMPACTED DRY ACTIVE WASTE	blank	A U	1,451.50	3,143,365
		Total: A	1,451.50	3,143,365
		blank	Total:	1,451.50
NON-COMPACTED DRY ACTIVE WASTE	Waste Description Total:		7,463.00	10,231,162

Table E-5 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
99 OTHER	43 Chem-Nuclear Cement	B S	4.00	80,000
		Total: B	4.00	80,000
	Chem-Nuclear Cement	Total:	4.00	80,000
99 OTHER	39 Petroset I and II	A U	15.00	1,790,680
		Total: A	15.00	1,790,680
	Petroset I and II	Total:	15.00	1,790,680
99 OTHER	blank	A U	65.20	10,735,696
		Total: A	65.20	10,735,696
	blank	Total:	65.20	10,735,696
OTHER	Waste Description Total:		84.20	12,606,376



Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
03 SOLIDIFIED LIQUIDS	31 Aquaset	A U	22.50	62,386
		Total: A	22.50	62,386
	Aquaset	Total:	22.50	62,386
03 SOLIDIFIED LIQUIDS	37 Chem-Nuclear Cement	A U	7.50	608
		Total: A	7.50	608
	Chem-Nuclear Cement	Total:	7.50	608
03 SOLIDIFIED LIQUIDS	44 Concrete (2500 psi)	C S	7.50	1,650,000
		Total: C	7.50	1,650,000
	Concrete (2500 psi)	Total:	7.50	1,650,000
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A S	206.10	63,217
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A S	116.00	10,831,464
		Total: A	322.70	10,894,681
	Concrete (Structural)	Total:	322.70	10,894,681
03 SOLIDIFIED LIQUIDS	96 Other Solidification Media	A U	1,155.00	162,743,749
		Total: A	1,155.00	162,743,749
	Other Solidification Media	Total:	1,155.00	162,743,749
03 SOLIDIFIED LIQUIDS	48 Stock Equipment Cement	A U	60.00	65,676
		Total: A	60.00	65,676
	Stock Equipment Cement	Total:	60.00	65,676
SOLIDIFIED LIQUIDS	Waste Description Total:		1,575.20	175,417,100

E-110

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
27 SOLIDIFIED OIL	15 Envirostone	A U	690.00	50.667
		Total: A	690.00	50.667
		Envirostone	Total:	690.00
27 SOLIDIFIED OIL	99 Other	A U	7.50	.020
		Total: A	7.50	.020
		Other	Total:	7.50
27 SOLIDIFIED OIL	95 Other Solidification Media	A U	5,040.00	23.700
		Total: A	5,040.00	23.700
		Other Solidification Media	Total:	5,040.00
27 SOLIDIFIED OIL	29 Petroset	A U	37.50	.100
		Total: A	37.50	.100
		Petroset	Total:	37.50
27 SOLIDIFIED OIL	39 Petroset I and II	A U	1,032.78	134.776
		Total: A	1,032.78	134.776
		Petroset I and II	Total:	1,032.78
27 SOLIDIFIED OIL	30 Petroset II	A U	1.08	1,500.000
		Total: A	1.08	1,500.000
		Petroset II	Total:	1.08
SOLIDIFIED OIL	Waste Description Total:		6,808.86	1,709.263

Table E-5 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A S	215.30	34,135.978
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A U	861.50	23,602.375
		Total: A	1,096.80	57,738.351
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	182.00	175,276.492
		Total: B	182.00	175,276.492
	Concrete (Structural)	Total:	1,278.80	233,014.843
09 SOLIDIFIED RESINS	04 Floor Dry/Superfine	A S	139.10	302,514.446
		Total: A	139.10	302,514.446
	Floor Dry/Superfine	Total:	139.10	302,514.446
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	7.50	139.458
		Total: A	7.50	139.458
	Other Solidification Media	Total:	7.50	139.458
09 SOLIDIFIED RESINS	97 Other Stabilization Media	A S	75.00	4,544.540
		Total: A	75.00	4,544.540
	Other Stabilization Media	Total:	75.00	4,544.540
09 SOLIDIFIED RESINS	48 Stock Equipment Cement	A U	22.50	2.346
		Total: A	22.50	2.346
	Stock Equipment Cement	Total:	22.50	2.346
09 SOLIDIFIED RESINS	49 Westinghouse-Hittman Cement	A S	278.20	295,238.083
09 SOLIDIFIED RESINS	49 Westinghouse-Hittman Cement	A U	139.10	94,416.291
		Total: A	417.30	389,654.374
	Westinghouse-Hittman Cement	Total:	417.30	389,654.374
SOLIDIFIED RESINS	Waste Description Total:		1,940.20	929,870.007

E-112

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
10 SORBED AQUEOUS LIQUID	31 Aqsaset	A U	87.50	188.632
		Total: A	87.50	188.632
10 SORBED AQUEOUS LIQUID	Aquanet		67.50	188.632
		Total:	67.50	188.632
10 SORBED AQUEOUS LIQUID	03 Celetom	A U	8.02	21.000
		Total: A	8.02	21.000
10 SORBED AQUEOUS LIQUID	Celetom		8.02	21.000
		Total:	8.02	21.000
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	372.78	500.431
		Total: A	372.78	500.431
10 SORBED AQUEOUS LIQUID	Chemsil 3030		372.78	500.431
		Total:	372.78	500.431
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	713.93	1,278.655
		Total: A	713.93	1,278.655
10 SORBED AQUEOUS LIQUID	Floor Dry/Superfine		713.93	1,278.655
		Total:	713.93	1,278.655
SORBED AQUEOUS LIQUID		Waste Description Total:	1,162.23	1,986.718

Table E-5 (Continued)

E-113

Waste Description	Solidification / Absorption Method	Waste Class	Volume (cu. ft.)	Activity (mCi)
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	172.50	179.712
		Total: A	172.50	179.712
	Floor Dry/Superfine	Total:	172.50	179.712
SORBED NON-AQUEOUS LIQUID		Waste Description Total:	172.50	179.712
		GRAND TOTAL:	93,411.97	8,691,254.785

Table E-5 (Continued)

Table E-6. Beatty 1989 Use of Solidification and Sorbent Media

E-114

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
25 ACTIVATED REACTOR HARDWARE	98 None Required	C S	60.40	1,078,995.966
		Total: C	60.40	1,078,995.966
	None Required	Total:	60.40	1,078,995.966
ACTIVATED REACTOR HARDWARE		Waste Description Total:	60.40	1,078,995.966



E-115

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	30.00	1 209
		Total: A	30.00	1 209
		Chemsil 3030	Total:	30.00
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U	2,231.60	1,551 757
		Total: A	2,231.60	1,551 757
		Floor Dry/Superfine	Total:	2,231.60
14 ANIMAL CARCASSES IN LIME AND SORBENT	95 Other Sorbent	A U	127.50	55 209
		Total: A	127.50	55 209
		Other Sorbent	Total:	127.50
14 ANIMAL CARCASSES IN LIME AND SORBENT	02 Speedi Dri	A U	52.50	204 800
		Total: A	52.50	204 800
		Speedi Dri	Total:	52.50
ANIMAL CARCASSES IN LIME AND SORBENT	Waste Description Total:		2,441.60	1,812 975

Table E-6 (Continued)

E-116

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A U	30.00	123.250
		Total: A	30.00	123.250
	Floor Dry/Superfine	Total:	30.00	123.250
AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	30.00	123.250

Table E-6 (Continued)

Table E-6 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A D	105.00	326.964
		Total: A	105.00	326.964
	Floor Dry/Superfine	Total:	105.00	326.964
BIOLOGICAL (NON-CARCASS WASTE)	Waste Description Total:		105.00	326.964

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	12 Concrete (Structural)	A U	978.40	42,877.766
		Total: A	978.40	42,877.766
	Concrete (Structural)	Total:	978.40	42,877.766
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	A U	52.50	1,661.025
		Total: A	52.50	1,661.025
	Floor Dry/Superfine	Total:	52.50	1,661.025
CARTRIDGE-TYPE FILTER MEDIA	Waste Description Total:		1,030.90	44,538.791

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A S	26.60	5,723.687
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	28,043.68	323,792.342
		Total: A	28,070.28	329,516.029
	None Required	Total:	28,070.28	329,516.029
21 COMPACTED DRY ACTIVE WASTE	09 Safe-N-Dri	A U	52.50	2,085.590
		Total: A	52.50	2,085.590
	Safe-N-Dri	Total:	52.50	2,085.590
21 COMPACTED DRY ACTIVE WASTE	blank	A U	276.50	9,421.671
		Total: A	276.50	9,421.671
	blank	Total:	276.50	9,421.671
COMPACTED DRY ACTIVE WASTE		Waste Description Total:	28,399.28	341,023.290

E-120

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
08 DEWATERED RESINS	98 None Required	A U	10.80	18.530
		Total: A	10.80	18.530
	None Required	Total:	10.80	18.530
08 DEWATERED RESINS	blank	A U	143.90	74,730.573
		Total: A	143.90	74,730.573
	blank	Total:	143.90	74,730.573
DEWATERED RESINS	Waste Description Total:		154.70	74,749.103

Table E-6 (Continued)



E-121

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
02 DRY SOLID	43 Chem-Nuclear Cement	A S	285.00	4,476.700
02 DRY SOLID	37 Chem-Nuclear Cement	A U	7.50	13.000
		Total: A	292.50	4,489.700
	Chem-Nuclear Cement	Total:	292.50	4,489.700
02 DRY SOLID	26 Chemsii 3030	A U	7.50	41.679
		Total: A	7.50	41.679
	Chemsii 3030	Total:	7.50	41.679
02 DRY SOLID	44 Concrete (2500 psi)	A S	53.02	771.399
02 DRY SOLID	44 Concrete (2500 psi)	A U	83.87	2,024.882
		Total: A	136.89	2,796.281
02 DRY SOLID	44 Concrete (2500 psi)	B S	893.65	32,925,526.478
02 DRY SOLID	44 Concrete (2500 psi)	B U	893.65	32,925,526.478
		Total: B	1,787.30	65,851,052.956
		Total: C S	501.03	42,579.500
		Total: C	501.03	42,579.500
	Concrete (2500 psi)	Total:	1,531.57	32,971,902.759
02 DRY SOLID	12 Concrete (Structural)	A S	92.09	1,849.186
02 DRY SOLID	12 Concrete (Structural)	A U	2,676.23	113,302.552
		Total: A	2,768.32	115,151.738
02 DRY SOLID	12 Concrete (Structural)	B S	99.62	394,097.014
02 DRY SOLID	12 Concrete (Structural)	B U	99.62	394,097.014
		Total: B	199.24	788,194.028
		Total: C S	79.50	975,245.500
		Total: C	79.50	975,245.500
	Concrete (Structural)	Total:	2,947.54	1,484,494.252
02 DRY SOLID	14 Delaware Custom Media	A U	7.50	6,700.000
		Total: A	7.50	6,700.000
	Delaware Custom Media	Total:	7.50	6,700.000
02 DRY SOLID	04 Floor Dry/Superfine	A U	1,818.47	1,828.161
02 DRY SOLID	04 Floor Dry/Superfine	A S	1,818.47	1,828.161
		Total: A	3,636.94	3,656.322
		Total: C S	198.00	1,100.000
		Total: C	198.00	1,100.000

Table E-6 (Continued)

E-122

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
	Floor Dry/Superfine	Total:	2,016.47	2,928.161
02 DRY SOLID	98 None Required	A U	11,135.35	192,661.507
		Total: A	11,135.35	192,661.507
02 DRY SOLID	98 None Required	B S	291.28	99,428.000
		Total: B	291.28	99,428.000
02 DRY SOLID	98 None Required	C S	144.08	1,811,510.000
		Total: C	144.08	1,811,510.000
	None Required	Total:	11,570.71	2,103,599.507
02 DRY SOLID	96 Other Solidification Media	A U	.04	770.250
		Total: A	.04	770.250
	Other Solidification Media	Total:	.04	770.250
02 DRY SOLID	39 Petroset I and II	A U	2.70	4,000.000
		Total: A	2.70	4,000.000
	Petroset I and II	Total:	2.70	4,000.000
02 DRY SOLID	blank	A U	35,959.14	45,351.288
		Total: A	35,959.14	45,351.288
02 DRY SOLID	blank	B S	1.80	600.000
		Total: B	1.80	600.000
02 DRY SOLID	blank	C S	.65	1,500.000
		Total: C	.65	1,500.000
	blank	Total:	35,961.59	47,451.288
DRY SOLID	Waste Description Total:		54,338.12	36,626,377.595

Table E-6 (Continued)

E-123

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
20 EVAPORATOR BOTTOMS	98 None Required	A U	266.80	3,367.850
		Total: A	266.80	3,367.850
	None Required	Total:	266.80	3,367.850
20 EVAPORATOR BOTTOMS	56 Other Solidification Media	A U	7,006.06	1,038,333.073
		Total: A	7,006.00	1,038,333.073
	Other Solidification Media	Total:	7,006.00	1,038,333.073
EVAPORATOR BOTTOMS	Waste Description Total:		7,272.80	1,041,700.923

Table E-6 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
15 GAS	12 Concrete (Structural)	A U	4.01	2,864.525
		Total: A	4.01	2,864.525
	Concrete (Structural)	Total:	4.01	2,864.525
15 GAS	04 Floor Dry/Superfine	A U	7.50	1.402
		Total: A	7.50	1.402
	Floor Dry/Superfine	Total:	7.50	1.402
15 GAS	98 None Required	A U	10.20	.043
		Total: A	10.20	.043
	None Required	Total:	10.20	.043
GAS	Waste Description Total:		21.71	2,865.970

E-125

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT	98 None Required	A U	4.01	.262
		Total: A	4.01	.262
	None Required	Total:	4.01	.262
NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Total:	4.01	.262

Table E-6 (Continued)

E-126

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
24 NON-CARTRIDGE FILTER MEDIA	38 Hittman Grout	A U	278.20	161,664.128
		Total: A	278.20	161,664.128
	Hittman Grout	Total:	278.20	161,664.128
24 NON-CARTRIDGE FILTER MEDIA	49 Westinghouse-Hittman Cement	A S	1,391.00	1,063,716.979
24 NON-CARTRIDGE FILTER MEDIA	49 Westinghouse-Hittman Cement	A U	1,808.30	843,110.813
		Total: A	3,199.30	1,906,827.792
	Westinghouse-Hittman Cement	Total:	3,199.30	1,906,827.792
NON-CARTRIDGE FILTER MEDIA	Waste Description Total:		3,477.50	2,068,491.920

Table E-6 (Continued)



E-127

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
22 NON-COMPACTED DRY ACTIVE WASTE	12 Concrete (Structural)	A S	7.50	200.000
22 NON-COMPACTED DRY ACTIVE WASTE	12 Concrete (Structural)	A U	139.61	1,571.050
		Total: A	147.11	1,771.050
22 NON-COMPACTED DRY ACTIVE WASTE	12 Concrete (Structural)	B S	22.50	3,972.854
		Total: B	22.50	3,972.854
	Concrete (Structural)	Total:	169.61	5,743.904
22 NON-COMPACTED DRY ACTIVE WASTE	98 None Required	A U	6,997.70	6,808.732
		Total: A	6,997.70	6,808.732
	None Required	Total:	6,997.70	6,808.732
22 NON-COMPACTED DRY ACTIVE WASTE	96 Other Solidification Media	A U	30.00	.080
		Total: A	30.00	.080
	Other Solidification Media	Total:	30.00	.080
22 NON-COMPACTED DRY ACTIVE WASTE	blank	A U	1,921.50	396.250
		Total: A	1,921.50	396.250
	blank	Total:	1,921.50	396.250
NON-COMPACTED DRY ACTIVE WASTE	Waste Description Total:		9,118.81	12,948.966

Table E-6 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
99 OTHER	12 Concrete (Structural)	A U	205.52	10,472.162
		Total: A	205.52	10,472.162
	Concrete (Structural)	Total:	205.52	10,472.162
99 OTHER	blank	A U	4.68	.089
		Total: A	4.68	.089
	blank	Total:	4.68	.089
OTHER	Waste Description Total:		210.20	10,472.251

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
03 SOLIDIFIED LIQUIDS	35 Aquaset I and II	A U	82.50	52.011
		Total: A	82.50	52.011
	Aquaset I and II	Total:	82.50	52.011
03 SOLIDIFIED LIQUIDS	44 Concrete (2500 psi)	B S	37.50	489,000.000
03 SOLIDIFIED LIQUIDS	44 Concrete (2500 psi)	Total: B	37.50	489,000.000
		C S	45.00	505,890.000
	Concrete (2500 psi)	Total: C	45.00	505,890.000
		Total:	82.50	994,890.000
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A S	150.80	13,284.286
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	457.44	2,503.402
		Total: A	608.24	15,787.688
	Concrete (Structural)	Total:	608.24	15,787.688
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	7.50	16.000
		Total: A	7.50	16.000
	Delaware Custom Media	Total:	7.50	16.000
03 SOLIDIFIED LIQUIDS	96 Other Solidification Media	A U	7.50	598
		Total: A	7.50	598
	Other Solidification Media	Total:	7.50	598
03 SOLIDIFIED LIQUIDS	30 Petroset II	A U	.54	1,000.000
		Total: A	.54	1,000.000
	Petroset II	Total:	.54	1,000.000
SOLIDIFIED LIQUIDS	Waste Description Total:		788.78	1,011,746.297

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	435.00	71.240
		Total: A	435.00	71.240
	Aquaset I and II	Total:	435.00	71.240
27 SOLIDIFIED OIL	15 Envirostone	A U	24.00	186.769
		Total: A	24.00	186.769
	Envirostone	Total:	24.00	186.769
27 SOLIDIFIED OIL	96 Other Solidification Media	A U	4,170.00	11.120
		Total: A	4,170.00	11.120
	Other Solidification Media	Total:	4,170.00	11.120
27 SOLIDIFIED OIL	29 Petroset	A U	.54	.001
		Total: A	.54	.001
	Petroset	Total:	.54	.001
27 SOLIDIFIED OIL	39 Petroset I and II	A U	413.04	471.028
		Total: A	413.04	471.028
	Petroset I and II	Total:	413.04	471.028
27 SOLIDIFIED OIL	30 Petroset II	A U	372.54	1,415.881
		Total: A	372.54	1,415.881
	Petroset II	Total:	372.54	1,415.881
SOLIDIFIED OIL	Waste Description Total:		5,415.12	2,156.039

E-131

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu.ft.)	Activity (mCi)
09 SOLIDIFIED RESINS	44 Concrete (2500 psi)	A S	7.50	5.005
		Total: A	7.50	5.005
	Concrete (2500 psi)		7.50	5.005
		Total:	7.50	5.005
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A S	11.69	4.796
09 SOLIDIFIED RESINS	12 Concrete (Structural)	A U	811.90	259,871.070
		Total: A	823.50	259,875.776
	Concrete (Structural)		823.50	259,875.776
		Total:	823.50	259,875.776
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	19.10	658.270
		Total: A	19.10	658.270
	Other Solidification Media		19.10	658.270
		Total:	19.10	658.270
09 SOLIDIFIED RESINS	97 Other Stabilization Media	B S	150.00	97,934.485
		Total: B	150.00	97,934.485
	Other Stabilization Media		150.00	97,934.485
		Total:	150.00	97,934.485
09 SOLIDIFIED RESINS	48 Stock Equipment Cement	A U	7.50	14.588
		Total: A	7.50	14.588
	Stock Equipment Cement		7.50	14.588
		Total:	7.50	14.588
SOLIDIFIED RESINS	Waste Description Total:		1,007.60	358,486.124

Table E-6 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume (cu. ft.)	Activity (mCi)
10 SORBED AQUEOUS LIQUID	31 Aquaset	A U	34.01	232.285
		Total: A	34.01	232.285
		Aquaset	Total:	34.01
10 SORBED AQUEOUS LIQUID	32 Aquaset II	A U	142.50	120.316
		Total: A	142.50	120.316
		Aquaset II	Total:	142.50
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	864.58	1,189.804
		Total: A	864.58	1,189.804
		Chemsil 3030	Total:	864.58
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	37.50	34.439
		Total: A	37.50	34.439
		Concrete (Structural)	Total:	37.50
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	1,109.50	1,129.931
		Total: A	1,109.50	1,129.931
		Floor Dry/Superfine	Total:	1,109.50
10 SORBED AQUEOUS LIQUID	05 Hi Dri	A U	157.50	44.774
		Total: A	157.50	44.774
		Hi Dri	Total:	157.50
SORBED AQUEOUS LIQUID	Waste Description Total:		2,345.59	2,751.349
GRAND TOTAL:			118,222.12	42,679,570.036



APPENDIX F

RICHLAND 1989 RADIONUCLIDE DISTRIBUTION BY SOLIDIFICATION AND SORBENT MEDIA

## APPENDIX F

### RICHLAND 1989 RADIONUCLIDE DISTRIBUTION BY SOLIDIFICATION AND SORBENT MEDIA

This appendix presents two tables which provide radionuclide inventory data as a function of waste stream, waste class, and solidification, stabilization, and sorbent media for waste disposed at the Richland, WA disposal facility during 1989. Table F-1 provides this information as summed over the contribution from all generators who shipped waste to the disposal facility. Table F-2 provides this information for contributions by nuclear utilities. All radionuclide activities are given in units of millicuries (mCi).

A list of the waste streams that may be considered in these tables has been provided on page C-2 of Appendix C. Waste classes correspond to the waste classification system described in 10 CFR 61.55 (Class A, Class B, and Class C wastes), where Class A wastes are subdivided into Class AS wastes and Class AU wastes. Class AS wastes are wastes that have been disposed in a manner consistent with the structural stability requirements of 10 CFR 61.56. Class AU wastes have not been so disposed. A list of the solidification, stabilization, and sorbent media that may be considered in these tables has been provided on page E-2 of Appendix E.

Table F-1. Richland 1989 Radionuclide Distribution by Solidification and Sorbent Media

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
25	ACTIVED REACTOR HARDWARE	98	None Required	A U	CG-60	363.000
				A U	Total:	363.000
				A	Total:	363.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	AM-241	.002
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	C-14	1,500.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	CM-242	.020
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	CM-243	.002
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	CG-60	7,165,920.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	CR-51	428,280.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	FE-55	13,124,680.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	H-3	146,350.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	MN-54	391,140.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	NB-94	13.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	NI-59	6,100.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	NI-63	950,440.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	PU-238	.003
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	PU-239	.002
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	PU-241	.130
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	TC-99	13.000
25	ACTIVED REACTOR HARDWARE	98	None Required	C S	U-235	.001
				C S	Total:	22,214,436.160
				C	Total:	22,214,436.160
				Solidification/Absorption Total:		22,214,799.160
25	ACTIVED REACTOR HARDWARE	02	Speedi Dri	A U	C-14	1.900
25	ACTIVED REACTOR HARDWARE	02	Speedi Dri	A U	CO-60	1.400
25	ACTIVED REACTOR HARDWARE	02	Speedi Dri	A U	EU-152	.190
25	ACTIVED REACTOR HARDWARE	02	Speedi Dri	A U	H-3	22.200
25	ACTIVED REACTOR HARDWARE	02	Speedi Dri	A U	TH-232	.011
25	ACTIVED REACTOR HARDWARE	02	Speedi Dri	A U	U-238	2.360
				A U	Total:	28.061
				A	Total:	28.061
				Solidification/Absorption Total:		28.061
				Waste Description Total:		22,214,827.221

Waste Description	Solidification / Absorption Media	Waste		Activity (mCi)
		Class	Isotope	
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	C-14	.050
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	CE-141	2.960
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	CR-51	5.440
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	H-3	5.600
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	I-125	10.000
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	IN-111	.500
14 ANIMAL CARCASSES IN LIME AND SORBENT	03 Celetom	A U	SR-85	2.960
		A U	Total:	27.510
		A	Total:	27.510
	Solidification/Absorption Total:			27.510
14 ANIMAL CARCASSES IN LIME AND SORBENT	24 Chemsil 30	A U	C-14	1.120
14 ANIMAL CARCASSES IN LIME AND SORBENT	24 Chemsil 30	A U	H-3	2.070
14 ANIMAL CARCASSES IN LIME AND SORBENT	24 Chemsil 30	A U	I-125	.100
		A U	Total:	3.290
		A	Total:	3.290
	Solidification/Absorption Total:			3.290
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	C-14	113.144
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CA-45	168.641
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CD-109	.091
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CE-141	13.123
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CE-144	3.331
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CE-147	.170
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CO-57	4.403
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CO-58	.080
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	CR-51	2.503
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	FE-59	3.140
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	GA-67	.400
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	GD-153	85.813
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	H-3	1,039.215
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	I-125	30.879
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	I-131	97.133
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	IN-111	10.456
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	NA-22	.013
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	NB-95	5.764
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	NI-63	1.060
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	P-32	.545
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	RB-86	.208
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	RU-103	98.577
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	S-35	58.116
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	SC-46	17.704
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	SN-113	3.414
14 ANIMAL CARCASSES IN LIME AND SORBENT	26 Chemsil 3030	A U	SR-85	17.917

Table F-1 (Continued)

4-3

Waste	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
14 AN	LIME AND SORBENT	26 Chemsil 3030	A U TC-99M	83.140
14 A'	LIME AND SORBENT	26 Chemsil 3030	A U TL-201	38.000
14 AL	LIME AND SORBENT	26 Chemsil 3030	A U XE-133	.994
			A U Total:	1,886.984
			A Total:	1,886.984
			Solidification/Absorption Total:	1,886.984
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U CA-45	.065	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U CE-141	.973	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U CR-51	.650	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U I-125	.909	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U I-131	1.061	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U IN-111	1.867	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U RU-103	1.000	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U SR-85	1.309	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U TC-99M	.030	
14 ANIMAL CARCASSES IN LIME AND SORBENT	25 Chemsil 50	A U Total:	7.864	
		A Total:	7.864	
		Solidification/Absorption Total:	7.864	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U C-14	23.503	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U CA-45	2.120	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U CE-141	.101	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U CO-57	3.758	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U CR-51	7.240	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U GA-67	.030	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U H-3	15.955	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U I-125	7.590	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U I-131	3.640	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U NB-95	.100	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U P-32	1.600	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U RB-86	.010	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U RU-103	.200	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U SC-46	2.631	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U SN-113	.270	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U SR-85	4.001	
14 ANIMAL CARCASSES IN LIME AND SORBENT	27 Dicaperl HP200	A U Total:	72.749	
		A Total:	72.749	
		Solidification/Absorption Total:	72.749	
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U BR-82	.001	
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U C-14	430.733	
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U CA-45	252.412	
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U CA-47	.003	

F-4

Table F-1 (Continued)



Waste Description				Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CD-109	1.028	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CE-141	331.005	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CL-36	.276	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CO-57	48.149	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CO-60	1.439	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CR-51	845.804	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CU-64	.007	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CU-67	.007	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	UY-159	.213	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	FE-55	1.196	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	FE-59	10.262	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	GA-67	.008	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	CD-153	14.460	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	GE-68	.001	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	H-3	28,691.789	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	HG-203	.257	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	I-123	10.622	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	I-125	279.728	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	I-131	36.425	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	IN-111	7.511	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	IN-113	.002	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	IN-114	4.640	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	MN-51	.001	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	MN-54	1.148	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	NA-22	.776	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	NB-95	551.505	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	P-32	7.083	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	PB-210	.010	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	PC-210	.088	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	RB-86	1.517	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	RB-95	.001	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	RU-103	194.895	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	S-35	184.027	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SC-41	.058	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SC-46	495.721	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SC-47	.001	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SE-75	170.564	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SN-113	26.317	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SR-85	565.411	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	SR-89	5.222	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	TC-99	23.151	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	TC-99M	1.551	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	TL-201	1.677	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	U-235	.005	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	U-238	.011	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	XE-133	.001	
14	ANIMAL CARCASSES	IN LIME AND SORBENT	04	Floor Dry/Superfine	A U	Y-88	.799	

F-5

Table F-1 (Continued)



F-6

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
14 ANIMAL CARCASSES IN LIME AND SORBENT	04 Floor Dry/Superfine	A U	Zn-65	18.148
		A U	Total:	33,234.066
		A U	Total:	33,234.066
		Solidification/Absorption Total:		
14 ANIMAL CARCASSES IN LIME AND SORBENT	20 Florco	A U	C-14	9.860
		A U	CA-45	2.500
		A U	H-3	18.250
		A U	I-125	4.192
		A U	P-32	3.190
		A U	S-35	9.299
A U	Total:	47.282		
A U	Total:	47.282		
Solidification/Absorption Total:			47.282	
14 ANIMAL CARCASSES IN LIME AND SORBENT	05 Hi Dri	A U	C-14	522.540
		A U	CE-141	2.000
		A U	H-3	5.000
		A U	I-125	3.000
		A U	RU-103	1.000
		A U	SC-46	3.000
		A U	Total:	536.540
A U	Total:	536.540		
Solidification/Absorption Total:			536.540	
14 ANIMAL CARCASSES IN LIME AND SORBENT	95 Other Sorbent	A U	H-3	42.500
		A U	Total:	42.500
		A U	Total:	42.500
Solidification/Absorption Total:			42.500	
14 ANIMAL CARCASSES IN LIME AND SORBENT	08 Safe-T-Sorb	A U	CA-45	.078
		A U	H-3	6.530
		A U	Total:	6.606
		A U	Total:	6.606
Solidification/Absorption Total:			6.606	
14 ANIMAL CARCASSES IN LIME AND SORBENT	02 Speedi Dri	A U	C-14	16.490
		A U	CA-45	.850
		A U	CE-141	1.155
		A U	CO-57	.320
		A U	CR-51	.525
		A U	FE-59	.020

Table F-1 (Continued)

F-7

Waste Description		Solidification / Absorption Media		Waste Class	Isotopes	Activity (mCi)
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	H-3	1,112.511
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	I-125	3.514
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	S-35	25.780
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	SC-46	.305
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	SE-75	.010
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	SN-113	.755
14	ANIMAL CARCASSES IN LIME AND SORBENT	02	Speedi Dri	A U	SR-85	.525
				A U	Total:	1,162.120
				A	Total:	1,162.120
				Solidification/Absorption Total:		1,162.120
ANIMAL CARCASSES IN LIME AND SORBENT						Waste Description Total:
						37,027.511

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	03 Celatom	A U	C-14	18.360
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	03 Celatom	A U	F-3	82.030
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	03 Celatom	A U	F-32	82.100
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	03 Celatom	A U	S-35	13.000
		A U	Total:	116.490
		A	Total:	119.480
			Solidification/Absorption Total:	110.480
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	AG-110	2.000
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	C-14	404.097
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	CA-45	444
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	CE-141	010
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	CL-36	241
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	CO-57	126.837
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	CR-51	60.575
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	FE-59	26.265
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	GA-67	1.84
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	GD-153	1.160
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	H-3	240.463
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	I-123	150
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	I-125	1.97.235
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	I-129	020
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	I-131	47.871
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	IN-111	105
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	IN-114	600
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	IN-114M	770
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	MM-54	020
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	NA-22	507
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	NB-95	1.270
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	P-32	338.671
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	RB-86	454
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	RB-103	1.378
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	S-35	104.896
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	SC-46	1.803
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	SR-113	1.848
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	SR-85	1.177
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	TC-99M	1.555
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	TL-201	510
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	26 Chemisil 3030	A U	XB-133	270
		A U	Total:	3.281.675
		A	Total:	3.281.675
			Solidification/Absorption Total:	3.281.675
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	27 Di-caperl HF200	A U	RA-133	240

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	27	Dicaperl HP200	A U	C-14	28.740
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	27	Dicaperl HP200	A G	CR-51	.600
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	27	Dicaperl HP200	A U	H-3	162.680
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	27	Dicaperl HP200	A U	I-125	2.310
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	27	Dicaperl HP200	A U	F-32	.010
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	27	Dicaperl HP200	A U	S-35	3.380
				A U	Total:	198.960
				A	Total:	198.960
				Solidification/Absorption Total:		198.960
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	C-14	405.372
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CA-45	.289
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CA-47	.001
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CD-109	.667
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CE-141	.058
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CL-36	2.374
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CO-57	1.148
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CO-58	.318
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CO-60	.030
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CR-51	5.708
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	CS-137	.602
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	FE-59	.049
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	GA-67	.002
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	H-3	318.841
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	I-123	.002
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	I-125	213.051
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	I-131	37.186
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	IN-111	5.001
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	NA-22	3.310
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	NB-95	.024
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	NI-63	.077
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	P-32	32.653
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	FB-210	.268
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	RB-86	.101
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	RU-103	.031
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	S-35	23.390
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	SC-46	.088
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	SE-75	1.216
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	SN-113	.445
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	SR-85	.054
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	SR-90	.001
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	TC-99M	.003
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	TL-201	.002
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	U-238	.390
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	U-NAT	.186
13	AQUEOUS LIQUIDS IN VIALS IN SORBENT	04	Floor Dry/Superfine	A U	YB-169	.046

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	04 Floor Dry/Superfine	A U	Zn-65	186
		A U	Total:	1,053,198
		A	Total:	1,053,198
		Solidification/Absorption Total:		
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 RI Dri	A U	C-14	11,000
		A U	CR-51	4,800
		A U	H-3	200
		A U	I-125	3,720
		A U	S-35	200
		A U	Total:	19,920
		A	Total:	19,920
		Solidification/Absorption Total:		
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	95 Other Sorbent	A U	RA-133	001
		A U	C-14	12,846
		A U	CA-45	128,818
		A U	CD-109	008
		A U	CE-139	002
		A U	CO-57	376
		A U	CO-60	002
		A U	CS-137	002
		A U	H-3	1,074,928
		A U	RS-203	002
		A U	I-125	039
		A U	I-129	001
		A U	NI-63	11,862
		A U	S-35	2,711,134
		A U	SE-75	788
		A U	SN-113	002
		A U	SR-85	002
		A U	Y-88	002
		A U	Total:	3,941,525
		A	Total:	3,941,525
		Solidification/Absorption Total:		
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	08 Safe-T-Sorb	A U	C-14	32,900
		A U	CA-45	9,400
		A U	CO-57	200
		A U	H-3	620,500
		A U	S-35	2,811,000
		A U	Total:	3,474,100
		A	Total:	3,474,100



F-11

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (uCi)
Solidification/Absorption Total:				3,474.100
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	C-14	163.278
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	CO-57	22.500
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	CR-51	.774
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	FE-59	2.170
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	GD-153	.160
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	H-3	7,512.567
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	I-125	620.208
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	IN-114M	.340
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	NA-22	.340
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	NB-95	.170
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	P-32	.900
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	RU-103	.600
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	S-35	660.600
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	SC-46	.190
13 AQUEOUS LIQUIDS IN VIALS IN SORBENT	02 Speedi Dri	A U	SN-113	.200
A U Total:				8,984.997
Solidification/Absorption Total:				8,984.997
Waste Description Total:				21,064.865

Table F-1 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	03 Celetom	A U	C-14	.017
04 BIOLOGICAL (NON-CARCASS WASTE)	03 Celetom	A U	CE-141	.170
04 BIOLOGICAL (NON-CARCASS WASTE)	03 Celetom	A U	CR-51	.240
04 BIOLOGICAL (NON-CARCASS WASTE)	03 Celetom	A U	I-125	4.500
04 BIOLOGICAL (NON-CARCASS WASTE)	03 Celetom	A U	SR-85	.120
		A U	Total:	4.990
		A	Total:	4.990
		Solidification/Absorption Total:		4.990
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	C-14	10.661
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	CA-45	2.500
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	FE-59	2.850
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	H-3	.870
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	I-125	.100
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	NA-22	.120
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	P-32	1.500
04 BIOLOGICAL (NON-CARCASS WASTE)	26 Chemsil 3030	A U	S-35	2.550
		A U	Total:	21.151
		A	Total:	21.151
		Solidification/Absorption Total:		21.151
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	BI-205	.004
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	C-14	12.736
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	CD-109	.284
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	CE-141	.676
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	CL-36	.050
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	CO-57	14.485
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	CR-51	.791
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	CU-67	3.191
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	FE-59	.007
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	GA-67	.156
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	GD-153	.154
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	H-3	1,787.960
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	I-123	.004
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	I-125	14.649
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	I-131	2.514
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	IN-111	.125
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	IN-114	.001
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	MN-54	.004
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	NA-22	.046
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	NB-95	.183
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	P-32	.212
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	PO-210	.002
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	RU-103	.277

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	S-35	4.139
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	SC-46	10.962
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	SN-113	1.238
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	SR-85	.752
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	TC-99M	.002
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	TL-201	3.255
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	XE-133	4.034
04 BIOLOGICAL (NON-CARCASS WASTE)	04 Floor Dry/Superfine	A U	ZN-65	.079
		A U	Total:	1,962.963
		A	Total:	1,962.963
			Solidification/Absorption Total:	1,962.963
04 BIOLOGICAL (NON-CARCASS WASTE)	05 Hi Dri	A U	C-14	302.600
		A U	Total:	302.600
		A	Total:	302.600
			Solidification/Absorption Total:	302.600
04 BIOLOGICAL (NON-CARCASS WASTE)	98 None Required	A U	C-14	35.000
04 BIOLOGICAL (NON-CARCASS WASTE)	98 None Required	A U	FE-59	5.100
		A U	Total:	40.100
		A	Total:	40.100
			Solidification/Absorption Total:	40.100
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	AM-241	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	C-14	.117
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CE-144	.036
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CM-243	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CM-244	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CO-58	.814
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CO-60	3.543
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CS-134	2.102
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	CS-137	5.314
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	FE-55	10.374
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	H-3	.124
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	MN-54	.141
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	NB-95	.088
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	NI-63	2.254
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	PU-238	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	PU-239	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	PU-240	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	PU-241	.109
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	PU-242	.015
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	SR-125	.194
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	SR-90	.043

Table F-7 (Continued)

F-14

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	TC-99	.007
04 BIOLOGICAL (NON-CARCASS WASTE)	09 Safe-N-Dri	A U	ZR-95	.036
		A U	Total:	25.401
		A	Total:	25.401
		Solidification/Absorption Total:		25.401
04 BIOLOGICAL (NON-CARCASS WASTE)	02 Speedi Dri	A U	C-14	.005
04 BIOLOGICAL (NON-CARCASS WASTE)	02 Speedi Dri	A U	H-3	35.010
04 BIOLOGICAL (NON-CARCASS WASTE)	02 Speedi Dri	A U	I-125	.550
		A U	Total:	35.569
		A	Total:	35.569
		Solidification/Absorption Total:		35.569
BIOLOGICAL (NON-CARCASS WASTE)				2,292.774
Waste Description Total:				2,292.774

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	AG-110	045
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	C-14	280.725
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	CB-109	169.360
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	CD-113M	111.310
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	CO-57	67.600
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	CO-58	1.848
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	CO-60	1.835
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	CR-51	211
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	R-3	12.353 000
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	NR-54	3.316
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	SR-124	3.490
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	SB-125	026
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	TR-NAY	376.937
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	U-234	167.749
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	U-235	5.817
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	U-238	4.974
23 CARTRIDGE TYPE FILTER MEDIA	12 Concrete (Structural)	A U	ZN-65	1.525
		A U Total:		13,548.689
		A Total:		13,548.689
		Solidification/Absorption Total:		12,548.658
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	AG-110M	3.370
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	AM-241	.842
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	C-14	058
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CR-141	37.600
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CR-144	101.770
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CM-242	8.408
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CM-243	8.866
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CO-57	4.856
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CO-58	571.560
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CO-60	3.997 000
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CR-51	319.000
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CS-134	110.790
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CS-137	522.200
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	FE-55	8,199 000
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	FE-59	20.500
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	R-3	230.160
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	I-129	.413
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	NR-54	221.500
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	NR-95	38.300
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	NI-63	1.611 400
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PO-238	1.290
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PG-239	.368
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PG-241	67.810
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SP-242	.002

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	RU-103	29 300
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	RU-106	42 510
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SR-124	6 496
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SR-125	15 210
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SR-89	4 150
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SR-90	5 914
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	TC-99	938
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	Z-234	001
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	U-235	001
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	U-238	001
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	ZM-65	2 280
23 CARTRIDGE TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	ZR-85	23 700
		C S	Total:	16,187 520
		C	Total:	16,187 520
			Solidification/Absorption Total:	
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	AC-110M	7 905
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	AM-241	654
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	BE-7	281 499
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	C-14	669 098
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CE-141	15 448
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CE-144	47 534
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CM-242	1 460
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CM-243	048
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CM-244	048
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CO-57	62 890
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CO-59	13,813 800
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CO-60	11,130 646
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CR-51	5,383 822
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CS-134	224 321
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CS-137	316 810
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	FE-55	81,310 705
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	FS-59	836 302
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	H-3	176 887
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	I-129	135
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	MO-54	1,194 124
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	NR-95	1,601 420
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	RI-59	50 896
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	RI-63	4,301 878
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PU-238	072
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PU-239	083
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PU-240	083
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PU-241	15 091
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PU-242	001
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	RU-103	11 738
23 CARTRIDGE TYPE FILTER MEDIA	47 LN Technologies Cement	C S	RU-106	9 767

Waste Description	Solidification / Absorption Media	Waste Class	Isotopes	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SB-125	86.804
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SN-113	20.320
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SR-89	8.194
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SB-90	1.610
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	TC-99	.107
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	ZN-65	21.975
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	ZR-95	965.023
		C S	Total:	122,388.749
		C	Total:	122,388.749
			Solidification/Absorption Total:	122,388.749

23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	AG-110M	.054
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	AM-241	.015
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	BE-7	1.508
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	C-14	618.608
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CE-144	3.167
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CM-242	.062
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CM-243	.033
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CM-244	.003
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CO-57	.192
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CO-58	93.777
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CO-60	4,690.008
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CR-51	14.822
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CS-134	88.405
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CS-137	293.350
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	FE-55	8,268.300
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	FE-59	.040
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	H-3	992.606
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	I-125	1.000
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	I-129	.128
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	MN-54	96.759
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	NB-95	.991
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	NI-59	.097
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	NI-63	865.730
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	NI-65	762.185
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	NP-237	.004
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	PU-238	.740
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	PU-239	.106
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	PU-240	.091
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	PU-241	31.063
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	PU-242	.903
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	RU-106	5.630
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	SB-125	10.988
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	SR-89	.001
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	SR-90	41.129
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	TC-99	.075

Table F-1 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	TC-99M	.091
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	U-234	.003
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	ZN-65	190.580
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	ZR-95	.485
		A U	Total:	17,772.807
		A	Total:	17,772.807
	Solidification/Absorption Total:			17,772.807
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	AG-110M	.031
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	CO-58	.018
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	CO-60	1.207
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	CR-51	.011
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	CS-137	.073
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	FE-55	2.304
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	I-129	.001
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	MN-54	.076
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	NI-63	.012
23 CARTRIDGE-TYPE FILTER MEDIA	96 Other Solidification Media	A U	SR-90	.010
		A U	Total:	3.743
		A	Total:	3.743
	Solidification/Absorption Total:			3.743
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	AM-241	.030
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	BE-7	1,800.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	C-14	59.800
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CM-242	.051
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CM-244	.033
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CO-58	4,950.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CO-60	502.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CR-51	497.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CS-137	10.100
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	FE-55	6,920.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	FE-59	387.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	H-3	82.700
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	I-129	.001
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	MN-54	569.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	NB-95	237.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	NI-63	145.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	PU-238	.052
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	PU-239	.062
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	PU-241	1.850
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	SN-113	1,800.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	SR-90	.276
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	TC-99	.035
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	ZR-95	144.000

Table F-1 (Continued)

Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
			A U	Total:	18,165.990
			A	Total:	18,165.990
			Solidification/Absorption Total:		18,165.990
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	C-14	104.200
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	CO-58	20,980.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	CO-60	22,490.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	CR-51	2,122.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	FE-55	45,400.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	FE-59	1,409.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	H-3	176
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	MN-54	2,880.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	NR-95	4,720.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	NI-63	2,680.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	SB-124	429.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	B S	ZR-95	3,000.000
			B S	Total:	106,214.376
			B	Total:	106,214.376
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	AG-110M	3,203.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	C-14	777.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CO-58	980.300
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CO-60	8,203.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CS-134	484.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CS-137	1,940.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	FE-55	21,660.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	H-3	125.700
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	MN-54	743.600
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	NI-63	1,385.000
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	PU-239	248
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	PU-240	247
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	RU-106	802.300
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	SB-124	636.700
23	CARTRIDGE-TYPE FILTER MEDIA	blank	C S	SR-90	5,825
			C S	Total:	40,946.920
			C	Total:	40,946.920
			Solidification/Absorption Total:		147,151.296
CARTRIDGE-TYPE FILTER MEDIA		Waste Description Total:			335,238.794

Table F-1 (Continued)

F-19

Waste Description				Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
21	COMPACTED	DRY	ACTIVE WASTE	03 Celetom	A U	C-14	.130
21	COMPACTED	DRY	ACTIVE WASTE	03 Celetom	A U	H-3	.210
					A U	Total:	.340
					A	Total:	.340
				Solidification/Absorption Total:			.340
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	C-14	.027
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	CO-58	.061
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	CO-60	1.172
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	FE-55	1.280
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	H-3	.960
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	MN-54	.201
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	NI-63	.051
21	COMPACTED	DRY	ACTIVE WASTE	12 Concrete (Structural)	A U	U-NAT	2,370.683
					A U	Total:	2,374.445
					A	Total:	2,374.445
				Solidification/Absorption Total:			2,374.445
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	AG-110M	.553
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	AM-241	.215
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	C-14	16.284
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CM-242	.410
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CO-57	1.689
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CO-58	110.306
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CO-60	360.029
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CR-51	121.560
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CS-134	236.483
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	CS-137	454.773
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	FE-55	942.844
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	FE-59	1.328
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	H-3	412.178
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	I-125	34.200
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	I-129	.107
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	I-131	33.590
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	MN-54	48.171
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	NR-95	31.416
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	NI-63	117.814
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	P-32	690.260
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	PU-238	.008
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	PU-239	.003
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	PU-241	.463
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	S-35	193.860
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	SB-125	9.492
21	COMPACTED	DRY	ACTIVE WASTE	04 Floor Dry/Superfine	A U	SR-89	.177

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Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	SR-90	476
21 COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	TC-98	0.8
21 COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	ZN-65	9.528
21 COMPACTED DRY ACTIVE WASTE	04 Floor Dry/Superfine	A U	ZR-95	8.713
		A U	Total:	5,831.039
		A	Total:	3,831.039
		A	Total:	3,831.039
			Solidification/Absorption Total:	
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	AG-110	1,004.979
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	AG-110M	232.404
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	AM-241	1.197
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	AU-195	2.171
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	BA-133	9.911
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	BA-140	38.193
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	BE-7	4.232
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	BI-207	0.001
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	C-14	16,401.693
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CA-45	193.336
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CA-47	0.090
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CD-109	2.800
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CE-134	0.076
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CE-141	10.855
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CE-144	298.413
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CF-252	0.002
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CL-36	22.451
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CM-242	1.817
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CM-243	854
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CM-244	0.010
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CO-56	590
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CO-57	352.760
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CO-58	3,412.446
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CO-60	9,063.376
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CR-51	1,974.285
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CR-56	0.007
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CS-134	801.892
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CS-136	6.162
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CS-137	5,728.338
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CS-144	1.569
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	CU-67	0.008
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	EU-152	3.193
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	EU-154	109
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	EU-155	434
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	FE-55	15,670.516
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	FE-59	74.156
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	GA-67	5.101
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	GA-68	0.002

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	GD-153	1.778
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	GE-69	12.117
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	H-3	110,087.912
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	HF-181	433
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	HG-203	390
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	I-121	901
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	I-123	14.715
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	I-125	13,747.783
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	I-129	9.134
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	I-131	1,109.873
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	I-133	19.447
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	IR-111	33.179
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	IR-114	255
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	IR-192	1.202
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	KR-85	4.967
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	LA-140	45.018
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	MM-54	1,069.583
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	MO-99	11.316
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NA-22	66.911
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NA-24	002
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NB-94	2.590
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NB-95	1,159.161
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NB-97	39.003
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NI-59	2.117
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NI-63	2,449.732
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	NP-237	454
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	P-32	7,917.553
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PB-210	106.658
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PM-147	010
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PO-208	2.534
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PO-210	1.718
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PO-239	2.354
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PO-240	058
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PO-241	182.875
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	PO-242	418
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	RA-226	28.122
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	RB-86	20.858
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	RB-106	132.420
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	RO-103	226.924
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	RU-106	144.848
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	S-35	9,041.897
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SB-122	3.448
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SB-124	65.563
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SB-125	169.114
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SC-46	20.733
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SC-50	010

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-75	7.557
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-111	.010
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-113	75.999
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-85	9.263
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-89	434.698
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-90	104.252
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-92	17.958
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	SR-95	.002
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TA-182	1.672
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TC-88	394.838
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TC-99M	147.524
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TE-123	39.976
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TE-125M	.290
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TH-227	.010
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TH-232	4.094
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TB-NAT	1.159
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TL-201	13.088
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	TL-204	1.988
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	U-232	.001
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	U-233	.600
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	U-234	5.615
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	U-235	3.365
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	U-238	74.256
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	U-NAT	3.614
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	W-181	.020
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	XE-127	7.448
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	XE-133	23.750
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	Y-88	.007
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	Y-90	3.580
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	YB-169	.050
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	ZR-65	691.898
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	ZR-90	.830
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	ZR-95	527.8
21 COMPACTED DRY ACTIVE WASTE	98 None Required	A U	ZR-97	32.001
Total:				206,015.625
Total:				206,015.625
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	AM-241	2.892
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	C-14	.022
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	CE-144	1,455.400
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	CM-242	.901
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	CO-60	709.140
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	CS-134	14,175.990
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	CS-137	689,280.300
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	EU-155	25.221
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	FE-55	3,050.500
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	H-3	4.167
21 COMPACTED DRY ACTIVE WASTE	98 None Required	C S	I-129	3.045



Table F-1 (Continued)

Waste_Deactivation	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
21	COMPACTED DRY ACTIVE WASTE	C S	NI-63	3,161,500
21	COMPACTED DRY ACTIVE WASTE	C S	FM-147	30,304,000
21	COMPACTED DRY ACTIVE WASTE	C S	Pu-238	1,281
21	COMPACTED DRY ACTIVE WASTE	C S	Pu-239	14,842
21	COMPACTED DRY ACTIVE WASTE	C S	Pu-240	3,944
21	COMPACTED DRY ACTIVE WASTE	C S	Pu-241	167,440
21	COMPACTED DRY ACTIVE WASTE	C S	RO-106	5,429,500
21	COMPACTED DRY ACTIVE WASTE	C S	SR-125	4,430,100
21	COMPACTED DRY ACTIVE WASTE	C S	SR-90	314,840,000
21	COMPACTED DRY ACTIVE WASTE	C S	TC-99	1,019,200
21	COMPACTED DRY ACTIVE WASTE	C S	TE-125M	152
21	COMPACTED DRY ACTIVE WASTE	C S	U-234	009
21	COMPACTED DRY ACTIVE WASTE	C S	U-235	315
21	COMPACTED DRY ACTIVE WASTE	C S	U-238	1,069,295,522
21	COMPACTED DRY ACTIVE WASTE	C S	Total:	1,069,295,522
			Total:	1,274,311,147
			Solidification/Absorption Total:	
21	COMPACTED DRY ACTIVE WASTE	A U	AM-241	004
21	COMPACTED DRY ACTIVE WASTE	A U	C-14	13,674
21	COMPACTED DRY ACTIVE WASTE	A U	CM-242	416
21	COMPACTED DRY ACTIVE WASTE	A U	CM-244	080
21	COMPACTED DRY ACTIVE WASTE	A U	CO-57	1,624
21	COMPACTED DRY ACTIVE WASTE	A U	CO-58	17,178
21	COMPACTED DRY ACTIVE WASTE	A U	CO-60	273,500
21	COMPACTED DRY ACTIVE WASTE	A U	CS-134	31,530
21	COMPACTED DRY ACTIVE WASTE	A U	CS-137	182,260
21	COMPACTED DRY ACTIVE WASTE	A U	H-3	53,779
21	COMPACTED DRY ACTIVE WASTE	A U	I-125	020
21	COMPACTED DRY ACTIVE WASTE	A U	I-129	007
21	COMPACTED DRY ACTIVE WASTE	A U	MM-54	30,330
21	COMPACTED DRY ACTIVE WASTE	A U	NI-63	69,400
21	COMPACTED DRY ACTIVE WASTE	A U	Pu-238	016
21	COMPACTED DRY ACTIVE WASTE	A U	Pu-241	031
21	COMPACTED DRY ACTIVE WASTE	A U	Pu-242	034
21	COMPACTED DRY ACTIVE WASTE	A U	SR-90	458
21	COMPACTED DRY ACTIVE WASTE	A U	TC-99	850
21	COMPACTED DRY ACTIVE WASTE	A U	Total:	675,291
			Total:	675,291
			Solidification/Absorption Total:	
21	COMPACTED DRY ACTIVE WASTE	A U	AG-110M	108,323
21	COMPACTED DRY ACTIVE WASTE	A U	AM-241	036
21	COMPACTED DRY ACTIVE WASTE	A U	AU-195	002
21	COMPACTED DRY ACTIVE WASTE	A U	C-14	230,557

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CA-45	4.380
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CD-109	30.520
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CE-141	15.700
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CE-144	75.648
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CO-57	.020
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CO-58	1,389.676
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CO-60	1,782.882
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CR-51	2,493.284
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CS-134	1,052.919
21 COMPACTED DRY ACTIVE WASTE	blank	A U	CS-137	2,727.555
21 COMPACTED DRY ACTIVE WASTE	blank	A U	FE-55	2,967.974
21 COMPACTED DRY ACTIVE WASTE	blank	A U	FE-59	230.213
21 COMPACTED DRY ACTIVE WASTE	blank	A U	GA-68	5.600
21 COMPACTED DRY ACTIVE WASTE	blank	A U	H-3	21,079.980
21 COMPACTED DRY ACTIVE WASTE	blank	A U	I-125	263.056
21 COMPACTED DRY ACTIVE WASTE	blank	A U	I-129	.041
21 COMPACTED DRY ACTIVE WASTE	blank	A U	I-131	138.328
21 COMPACTED DRY ACTIVE WASTE	blank	A U	MN-54	1,141.323
21 COMPACTED DRY ACTIVE WASTE	blank	A U	NA-22	.500
21 COMPACTED DRY ACTIVE WASTE	blank	A U	NR-95	484.887
21 COMPACTED DRY ACTIVE WASTE	blank	A U	NI-63	421.670
21 COMPACTED DRY ACTIVE WASTE	blank	A U	P-32	188.774
21 COMPACTED DRY ACTIVE WASTE	blank	A U	RH-106	.051
21 COMPACTED DRY ACTIVE WASTE	blank	A U	RU-103	31.144
21 COMPACTED DRY ACTIVE WASTE	blank	A U	S-35	267.206
21 COMPACTED DRY ACTIVE WASTE	blank	A U	SB-124	2,769.744
21 COMPACTED DRY ACTIVE WASTE	blank	A U	SC-46	.081
21 COMPACTED DRY ACTIVE WASTE	blank	A U	SM-153	8.800
21 COMPACTED DRY ACTIVE WASTE	blank	A U	SN-113	.401
21 COMPACTED DRY ACTIVE WASTE	blank	A U	SR-85	.250
21 COMPACTED DRY ACTIVE WASTE	blank	A U	SR-90	1.441
21 COMPACTED DRY ACTIVE WASTE	blank	A U	TC-99	.658
21 COMPACTED DRY ACTIVE WASTE	blank	A U	ZN-65	259.324
21 COMPACTED DRY ACTIVE WASTE	blank	A U	ZR-95	89.575
		A U	Total:	40,253.424
		A	Total:	40,253.424
		Solidification/Absorption Total:		40,253.424

Table F-1 (Continued)

COMPACTED DRY ACTIVE WASTE

Waste Description Total: 1,321,445.886

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	CS-141	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	CS-144	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	CO-59	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	CO-60	.401
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	CR-51	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	EU-152	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	FE-59	.039
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	R-3	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	LA-140	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	MN-54	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	SB-124	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	SC-46	.001
08 DEWATERED RESINS	04 Floor Dry/Superfine	A 0	TE-132	.001
		A 0	Total:	.451
		A	Total:	.451
			Solidification/Absorption Total:	.451
08 DEWATERED RESINS	98 None Required	A 0	AG-110M	1,758,663
08 DEWATERED RESINS	98 None Required	A 0	AM-241	878
08 DEWATERED RESINS	98 None Required	A 0	BA-140	91,885
08 DEWATERED RESINS	98 None Required	A 0	C-14	324,647
08 DEWATERED RESINS	98 None Required	A 0	CR-141	2,741
08 DEWATERED RESINS	98 None Required	A 0	CS-144	36,298
08 DEWATERED RESINS	98 None Required	A 0	CM-242	1,300
08 DEWATERED RESINS	98 None Required	A 0	CM-243	.089
08 DEWATERED RESINS	98 None Required	A 0	CM-284	.038
08 DEWATERED RESINS	98 None Required	A 0	CO-57	25,288
08 DEWATERED RESINS	98 None Required	A 0	CO-58	21,342,656
08 DEWATERED RESINS	98 None Required	A 0	CO-60	76,746,517
08 DEWATERED RESINS	98 None Required	A 0	CR-51	55,788,071
08 DEWATERED RESINS	98 None Required	A 0	CS-134	10,962,670
08 DEWATERED RESINS	98 None Required	A 0	CS-136	2,745
08 DEWATERED RESINS	98 None Required	A 0	CS-137	12,388,813
08 DEWATERED RESINS	98 None Required	A 0	EU-154	532
08 DEWATERED RESINS	98 None Required	A 0	EU-155	6,053
08 DEWATERED RESINS	98 None Required	A 0	FE-55	26,393,665
08 DEWATERED RESINS	98 None Required	A 0	FE-59	415,685
08 DEWATERED RESINS	98 None Required	A 0	P-3	9,448,713
08 DEWATERED RESINS	98 None Required	A 0	PF-181	.006
08 DEWATERED RESINS	98 None Required	A 0	I-129	23,452
08 DEWATERED RESINS	98 None Required	A 0	I-131	88,123
08 DEWATERED RESINS	98 None Required	A 0	LA-140	102,927
08 DEWATERED RESINS	98 None Required	A 0	MN-54	11,875,367
08 DEWATERED RESINS	98 None Required	A 0	MB-95	12,109,850
08 DEWATERED RESINS	98 None Required	A 0	NI-59	5,265

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	98 None Required	A U	NI-63	3,935,167
08 DEWATERED RESINS	98 None Required	A U	NP-237	1,773,575
08 DEWATERED RESINS	98 None Required	A U	PN-147	1,416
08 DEWATERED RESINS	98 None Required	A U	PU-238	3,981
08 DEWATERED RESINS	98 None Required	A U	PU-239	1,553
08 DEWATERED RESINS	98 None Required	A U	PU-240	167,765
08 DEWATERED RESINS	98 None Required	A U	PU-241	222,882
08 DEWATERED RESINS	98 None Required	A U	PU-242	113,307
08 DEWATERED RESINS	98 None Required	A U	RU-106	3,776,806
08 DEWATERED RESINS	98 None Required	A U	SR-124	425,331
08 DEWATERED RESINS	98 None Required	A U	SR-125	8,443
08 DEWATERED RESINS	98 None Required	A U	SR-89	1,178,429
08 DEWATERED RESINS	98 None Required	A U	SR-90	30,138
08 DEWATERED RESINS	98 None Required	A U	TC-99	1,193,851
08 DEWATERED RESINS	98 None Required	A U	TE-125M	013
08 DEWATERED RESINS	98 None Required	A U	U-233	041
08 DEWATERED RESINS	98 None Required	A U	U-234	007
08 DEWATERED RESINS	98 None Required	A U	U-235	025
08 DEWATERED RESINS	98 None Required	A U	U-238	1,760
08 DEWATERED RESINS	98 None Required	A U	XE-135M	189,401,160
08 DEWATERED RESINS	98 None Required	A U	ZR-95	7,815,807
08 DEWATERED RESINS	98 None Required	A U	ZR-95	449,336,687
08 DEWATERED RESINS	98 None Required	A U	Total:	449,336,687
08 DEWATERED RESINS	98 None Required	B S	BA-140	296,000
08 DEWATERED RESINS	98 None Required	B S	C-14	347,753
08 DEWATERED RESINS	98 None Required	B S	CE-144	18,500
08 DEWATERED RESINS	98 None Required	B S	CM-242	35,530
08 DEWATERED RESINS	98 None Required	B S	CO-57	859,709
08 DEWATERED RESINS	98 None Required	B S	CO-58	105,081,719
08 DEWATERED RESINS	98 None Required	B S	CO-60	163,446,000
08 DEWATERED RESINS	98 None Required	B S	CR-51	25,000,000
08 DEWATERED RESINS	98 None Required	B S	CS-134	591,470,000
08 DEWATERED RESINS	98 None Required	B S	CS-136	1,076,800,000
08 DEWATERED RESINS	98 None Required	B S	CS-137	129,680,000
08 DEWATERED RESINS	98 None Required	B S	FE-55	256,000
08 DEWATERED RESINS	98 None Required	B S	FE-59	931,140
08 DEWATERED RESINS	98 None Required	B S	I-129	3,122
08 DEWATERED RESINS	98 None Required	B S	I-131	1,230,000
08 DEWATERED RESINS	98 None Required	B S	LA-140	341,000
08 DEWATERED RESINS	98 None Required	B S	MM-54	30,233,900
08 DEWATERED RESINS	98 None Required	B S	NR-95	9,789,750
08 DEWATERED RESINS	98 None Required	B S	NI-59	947,000
08 DEWATERED RESINS	98 None Required	B S	NI-63	128,620,000
08 DEWATERED RESINS	98 None Required	B S	NP-239	12,900

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	98 None Required	B S	FU-239	001
08 DEWATERED RESINS	98 None Required	B S	FU-241	400.920
08 DEWATERED RESINS	98 None Required	B S	SR-124	835.350
08 DEWATERED RESINS	98 None Required	B S	SR-125	4,641.200
08 DEWATERED RESINS	98 None Required	B S	SM-113	236.000
08 DEWATERED RESINS	98 None Required	B S	SR-89	979.400
08 DEWATERED RESINS	98 None Required	B S	SR-90	2,829.260
08 DEWATERED RESINS	98 None Required	B S	TC-99	3.909
08 DEWATERED RESINS	98 None Required	B S	XE-135M	20.660
08 DEWATERED RESINS	98 None Required	B S	IN-85	61,517.100
08 DEWATERED RESINS	98 None Required	B S	ZR-95	5,858.060
08 DEWATERED RESINS	98 None Required	B S	Total:	2,343,190.875
08 DEWATERED RESINS	98 None Required	B S	Total:	2,743,190.875
08 DEWATERED RESINS	98 None Required	C S	AG-110M	5,150.200
08 DEWATERED RESINS	98 None Required	C S	AM-241	16.752
08 DEWATERED RESINS	98 None Required	C S	C-14	251.708
08 DEWATERED RESINS	98 None Required	C S	CE-144	12,840.000
08 DEWATERED RESINS	98 None Required	C S	CM-242	1,434.000
08 DEWATERED RESINS	98 None Required	C S	CO-57	83,666.077
08 DEWATERED RESINS	98 None Required	C S	CO-58	200,510.300
08 DEWATERED RESINS	98 None Required	C S	CO-60	159,705.700
08 DEWATERED RESINS	98 None Required	C S	CS-134	2,476,935.500
08 DEWATERED RESINS	98 None Required	C S	CS-137	2,476,935.500
08 DEWATERED RESINS	98 None Required	C S	CS-144	2.930
08 DEWATERED RESINS	98 None Required	C S	FE-55	105,937.600
08 DEWATERED RESINS	98 None Required	C S	R-3	87.406
08 DEWATERED RESINS	98 None Required	C S	I-129	7.426
08 DEWATERED RESINS	98 None Required	C S	HR-54	6,588.200
08 DEWATERED RESINS	98 None Required	C S	NB-95	78.400
08 DEWATERED RESINS	98 None Required	C S	NI-59	391.000
08 DEWATERED RESINS	98 None Required	C S	NI-63	225,836.600
08 DEWATERED RESINS	98 None Required	C S	PM-147	656,572.000
08 DEWATERED RESINS	98 None Required	C S	FU-238	24.625
08 DEWATERED RESINS	98 None Required	C S	FU-239	67.928
08 DEWATERED RESINS	98 None Required	C S	FU-240	22.436
08 DEWATERED RESINS	98 None Required	C S	FU-241	1,703.160
08 DEWATERED RESINS	98 None Required	C S	FU-106	17,792.000
08 DEWATERED RESINS	98 None Required	C S	SR-125	10,406.660
08 DEWATERED RESINS	98 None Required	C S	SR-89	274.101
08 DEWATERED RESINS	98 None Required	C S	SR-90	4,827.170.000
08 DEWATERED RESINS	98 None Required	C S	TE-99	1,468.907
08 DEWATERED RESINS	98 None Required	C S	TE-125M	1,822.060
08 DEWATERED RESINS	98 None Required	C S	U-234	135
08 DEWATERED RESINS	98 None Required	C S	U-235	026
08 DEWATERED RESINS	98 None Required	C S	U-238	184
08 DEWATERED RESINS	98 None Required	C S	ZR-95	14,203
08 DEWATERED RESINS	98 None Required	C S	Total:	9,796,662.529

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
		C	Total:	8,796,892.529
		Solidification/Absorption	Total:	11,589,410.091
08 DEWATERED RESINS	09 Safe-N-Dri	A U	AM-241	.097
08 DEWATERED RESINS	09 Safe-N-Dri	A U	BE-7	3.870
08 DEWATERED RESINS	09 Safe-N-Dri	A U	C-14	74.430
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CM-242	.030
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CM-244	.022
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CO-57	7.880
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CO-58	2,898.000
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CO-60	352.990
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CR-51	14.012
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CS-134	128.630
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CS-136	2.090
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CS-137	283.650
08 DEWATERED RESINS	09 Safe-N-Dri	A U	FE-55	1,501.000
08 DEWATERED RESINS	09 Safe-N-Dri	A U	FE-59	19.130
08 DEWATERED RESINS	09 Safe-N-Dri	A U	H-3	246.600
08 DEWATERED RESINS	09 Safe-N-Dri	A U	I-129	.023
08 DEWATERED RESINS	09 Safe-N-Dri	A U	I-131	2.480
08 DEWATERED RESINS	09 Safe-N-Dri	A U	LA-140	.026
08 DEWATERED RESINS	09 Safe-N-Dri	A U	MN-54	464.900
08 DEWATERED RESINS	09 Safe-N-Dri	A U	NB-95	32.440
08 DEWATERED RESINS	09 Safe-N-Dri	A U	NI-63	464.700
08 DEWATERED RESINS	09 Safe-N-Dri	A U	PD-238	.034
08 DEWATERED RESINS	09 Safe-N-Dri	A U	Pt-238	.041
08 DEWATERED RESINS	09 Safe-N-Dri	A U	Pt-241	1.201
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SB-124	.147
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SB-125	.932
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SN-113	1.322
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SR-90	7.637
08 DEWATERED RESINS	09 Safe-N-Dri	A U	TC-99	.963
08 DEWATERED RESINS	09 Safe-N-Dri	A U	TE-125M	.113
08 DEWATERED RESINS	09 Safe-N-Dri	A U	ZN-65	3.628
08 DEWATERED RESINS	09 Safe-N-Dri	A U	ZR-95	12.368
		A U	Total:	6,525.296
		A	Total:	6,525.296
		Solidification/Absorption	Total:	6,525.296
08 DEWATERED RESINS	blank	A U	AG-110M	5,502.520
08 DEWATERED RESINS	blank	A U	BA-140	34.360
08 DEWATERED RESINS	blank	A U	C-14	3,461.613
08 DEWATERED RESINS	blank	A U	CE-144	911.057
08 DEWATERED RESINS	blank	A U	CM-242	.202
08 DEWATERED RESINS	blank	A U	CO-58	17,120.808



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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
		A U	CO-60	166,021.139
08 DEWATERED RESINS	blank	A U	CR-51	19,082.530
08 DEWATERED RESINS	blank	A U	CS-134	7,541.595
08 DEWATERED RESINS	blank	A U	CS-137	11,103.214
08 DEWATERED RESINS	blank	A U	FE-55	99,276.173
08 DEWATERED RESINS	blank	A U	FE-59	6,035.820
08 DEWATERED RESINS	blank	A U	H-3	985.644
08 DEWATERED RESINS	blank	A U	I-129	.001
08 DEWATERED RESINS	blank	A U	I-131	5.210
08 DEWATERED RESINS	blank	A U	LA-140	4.360
08 DEWATERED RESINS	blank	A U	MN-54	.891
08 DEWATERED RESINS	blank	A U	NB-95	.70
08 DEWATERED RESINS	blank	A U	NI-59	.10
08 DEWATERED RESINS	blank	A U	NI-63	4,071.133
08 DEWATERED RESINS	blank	A U	PU-239	.145
08 DEWATERED RESINS	blank	A U	PU-240	.062
08 DEWATERED RESINS	blank	A U	PU-241	24.925
08 DEWATERED RESINS	blank	A U	RU-106	17.750
08 DEWATERED RESINS	blank	A U	SB-124	2,333.967
08 DEWATERED RESINS	blank	A U	SB-125	30.377
08 DEWATERED RESINS	blank	A U	SR-90	30.753
08 DEWATERED RESINS	blank	A U	TC-99	2.790
08 DEWATERED RESINS	blank	A U	ZN-65	3,390.600
08 DEWATERED RESINS	blank	A U	Total:	462,603.469
		A	Total:	462,603.469
		B S	AM-241	.056
08 DEWATERED RESINS	blank	B S	C-14	142.200
08 DEWATERED RESINS	blank	B S	CE-141	2.270
08 DEWATERED RESINS	blank	B S	CE-144	5.700
08 DEWATERED RESINS	blank	B S	CM-242	.106
08 DEWATERED RESINS	blank	B S	CM-243	.022
08 DEWATERED RESINS	blank	B S	CM-244	.022
08 DEWATERED RESINS	blank	B S	CO-57	.342
08 DEWATERED RESINS	blank	B S	CO-58	16,457.000
08 DEWATERED RESINS	blank	B S	CO-60	78,830.600
08 DEWATERED RESINS	blank	B S	CR-51	3,140.000
08 DEWATERED RESINS	blank	B S	CS-134	90,148.000
08 DEWATERED RESINS	blank	B S	CS-137	132,450.000
08 DEWATERED RESINS	blank	B S	FE-55	45,784.000
08 DEWATERED RESINS	blank	B S	FE-59	869.000
08 DEWATERED RESINS	blank	B S	H-3	789.870
08 DEWATERED RESINS	blank	B S	I-129	.117
08 DEWATERED RESINS	blank	B S	MN-54	21,300.000
08 DEWATERED RESINS	blank	B S	NI-59	22.000
08 DEWATERED RESINS	blank	B S	NI-63	8,215.800
08 DEWATERED RESINS	blank	B S	NP-237	.002
08 DEWATERED RESINS	blank	B S	PU-238	1.038
08 DEWATERED RESINS	blank			

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	blank	B S	FU-239	2.431
08 DEWATERED RESINS	blank	B S	FU-240	.260
08 DEWATERED RESINS	blank	B S	FU-241	116.200
08 DEWATERED RESINS	blank	B S	FU-242	.002
08 DEWATERED RESINS	blank	B S	SR-124	47.485,000
08 DEWATERED RESINS	blank	B S	SR-125	2,428.000
08 DEWATERED RESINS	blank	B S	SR-89	49.400
08 DEWATERED RESINS	blank	B S	SR-90	472.310
08 DEWATERED RESINS	blank	B S	TC-99	.604
08 DEWATERED RESINS	blank	B S	ZK-85	272,000,000
08 DEWATERED RESINS	blank	B S	Total:	720,712.352
08 DEWATERED RESINS	blank	B S	Total:	720,712.352
08 DEWATERED RESINS	blank	C S	C-14	3,520,000
08 DEWATERED RESINS	blank	C S	CO-58	58,800,000
08 DEWATERED RESINS	blank	C S	CO-60	21,800,000
08 DEWATERED RESINS	blank	C S	CS-134	27,800,000
08 DEWATERED RESINS	blank	C S	CS-137	39,000,000
08 DEWATERED RESINS	blank	C S	FK-55	11,200,000
08 DEWATERED RESINS	blank	C S	R-3	62,400
08 DEWATERED RESINS	blank	C S	NI-54	5,910,000
08 DEWATERED RESINS	blank	C S	NI-63	8,840,000
08 DEWATERED RESINS	blank	C S	SB-124	3,840,000
08 DEWATERED RESINS	blank	C S	SR-90	4,450
08 DEWATERED RESINS	blank	C S	TC-99	.137
08 DEWATERED RESINS	blank	C S	Total:	181,875.987
08 DEWATERED RESINS	blank	C S	Total:	181,875.987
Solidification/Absorption Total:				1,965,192.808
Waste Description Total:				12,961,128.646

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	31 Aquaset	A U	AG-110M	.010
02 DRY SOLID	31 Aquaset	A U	C-14	.001
02 DRY SOLID	31 Aquaset	A U	CR-51	.010
02 DRY SOLID	31 Aquaset	A U	FE-59	282.315
02 DRY SOLID	31 Aquaset	A U	R-3	2.138
02 DRY SOLID	31 Aquaset	A U	I-125	.001
02 DRY SOLID	31 Aquaset	A U	P-32	1.355
02 DRY SOLID	31 Aquaset	A U	S-35	285.870
		A U	Total:	285.870
		A	Total:	285.870
		Solidification/Absorption Total:		285.870
02 DRY SOLID	43 Chem Nuclear Cement	A S	RA-226	.015
		A S	Total:	.015
02 DRY SOLID	37 Chem Nuclear Cement	A U	AM-241	.008
02 DRY SOLID	37 Chem Nuclear Cement	A U	NI-63	43.500
02 DRY SOLID	37 Chem Nuclear Cement	A U	PO-236	.001
02 DRY SOLID	37 Chem Nuclear Cement	A U	PO-238	.001
02 DRY SOLID	37 Chem Nuclear Cement	A U	PO-239	.029
02 DRY SOLID	37 Chem Nuclear Cement	A U	RA-226	2.545
02 DRY SOLID	37 Chem Nuclear Cement	A U	Total:	46.084
		A U	Total:	46.089
		A	Total:	46.099
		Solidification/Absorption Total:		46.099
02 DRY SOLID	26 Chems11 3030	A U	AM-241	.035
02 DRY SOLID	26 Chems11 3030	A U	C-14	325.625
02 DRY SOLID	26 Chems11 3030	A U	CA-45	1.719
02 DRY SOLID	26 Chems11 3030	A U	CD-109	4.299
02 DRY SOLID	26 Chems11 3030	A U	CE-141	.798
02 DRY SOLID	26 Chems11 3030	A U	CO-56	.001
02 DRY SOLID	26 Chems11 3030	A U	CO-57	.899
02 DRY SOLID	26 Chems11 3030	A U	CO-60	57.937
02 DRY SOLID	26 Chems11 3030	A U	CR-51	28.829
02 DRY SOLID	26 Chems11 3030	A U	CS-134	.001
02 DRY SOLID	26 Chems11 3030	A U	CS-137	152.487
02 DRY SOLID	26 Chems11 3030	A U	FE-55	50.001
02 DRY SOLID	26 Chems11 3030	A U	GA-67	58.715
02 DRY SOLID	26 Chems11 3030	A U	GD-153	3.506.898
02 DRY SOLID	26 Chems11 3030	A U	H-3	3.654
02 DRY SOLID	26 Chems11 3030	A U	I-121	24.689
02 DRY SOLID	26 Chems11 3030	A U	I-123	329.875
02 DRY SOLID	26 Chems11 3030	A U	I-125	51.003
02 DRY SOLID	26 Chems11 3030	A U	I-131	23.914
02 DRY SOLID	26 Chems11 3030	A U	IN-111	

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	26 Chems11 3030	A U	MN-54	.910
02 DRY SOLID	26 Chems11 3030	A U	NA-22	.500
02 DRY SOLID	26 Chems11 3030	A U	NB-95	.327
02 DRY SOLID	26 Chems11 3030	A U	NI-63	61.000
02 DRY SOLID	26 Chems11 3030	A U	P-32	485.754
02 DRY SOLID	26 Chems11 3030	A U	FM-147	.900
02 DRY SOLID	26 Chems11 3030	A U	PO-210	.015
02 DRY SOLID	26 Chems11 3030	A U	RA-226	.090
02 DRY SOLID	26 Chems11 3030	A U	RB-86	13.748
02 DRY SOLID	26 Chems11 3030	A U	RU-103	1.525
02 DRY SOLID	26 Chems11 3030	A U	S-35	253.632
02 DRY SOLID	26 Chems11 3030	A U	SC-45	.712
02 DRY SOLID	26 Chems11 3030	A U	SN-113	1.045
02 DRY SOLID	26 Chems11 3030	A U	SN-119M	.001
02 DRY SOLID	26 Chems11 3030	A U	SR-85	.475
02 DRY SOLID	26 Chems11 3030	A U	SR-90	8.150
02 DRY SOLID	26 Chems11 3030	A U	TC-99M	700.028
02 DRY SOLID	26 Chems11 3030	A U	TR-232	.030
02 DRY SOLID	26 Chems11 3030	A U	TC-201	74.105
02 DRY SOLID	26 Chems11 3030	A U	T-238	6.365
02 DRY SOLID	26 Chems11 3030	A U	XE-133	139.022
02 DRY SOLID	26 Chems11 3030	A U	ZN-65	.015
02 DRY SOLID	26 Chems11 3030	A U	ZR-95	.001
02 DRY SOLID	26 Chems11 3030	A U	Total:	6,389.400
		A	Total:	5,389.400
			Solidification/Absorption Total:	5,389.400
02 DRY SOLID	25 Chems11 50	A U	C-14	1.847
02 DRY SOLID	25 Chems11 50	A U	CA-45	.020
02 DRY SOLID	25 Chems11 50	A U	CE-141	.105
02 DRY SOLID	25 Chems11 50	A U	CL-36	.075
02 DRY SOLID	25 Chems11 50	A U	CO-57	.063
02 DRY SOLID	25 Chems11 50	A U	CR-51	7.329
02 DRY SOLID	25 Chems11 50	A U	GA-67	10.131
02 DRY SOLID	25 Chems11 50	A U	H-3	90.016
02 DRY SOLID	25 Chems11 50	A U	I-123	.071
02 DRY SOLID	25 Chems11 50	A U	I-125	19.349
02 DRY SOLID	25 Chems11 50	A U	I-131	1.415
02 DRY SOLID	25 Chems11 50	A U	IN-111	1.791
02 DRY SOLID	25 Chems11 50	A U	RA-22	1.764
02 DRY SOLID	25 Chems11 50	A U	P-32	5.842
02 DRY SOLID	25 Chems11 50	A U	S-35	28.075
02 DRY SOLID	25 Chems11 50	A U	TC-99M	100.000
02 DRY SOLID	25 Chems11 50	A U	Tl-201	7.900
02 DRY SOLID	25 Chems11 50	A U	XE-133	3.755
02 DRY SOLID	25 Chems11 50	A U	Total:	270.658

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	44 Concrete (2500 psi)	A S	AM-241	-475
02 DRY SOLID	44 Concrete (2500 psi)	A S	FU-239	-086
02 DRY SOLID	44 Concrete (2500 psi)	A S	RA-226	9,210
		A S	Totals	9,771
02 DRY SOLID	44 Concrete (2500 psi)	A U	C-14	82,400
02 DRY SOLID	44 Concrete (2500 psi)	A U	CE-141	19,900
02 DRY SOLID	44 Concrete (2500 psi)	A U	CO-58	1,780,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	CO-60	162,000,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	CR-51	1,270,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	FE-55	130,000,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	FE-59	308,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	H-3	2,380
02 DRY SOLID	44 Concrete (2500 psi)	A U	NI-54	6,220,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	NI-55	3,150,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	NI-63	10,400,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	SB-124	114,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	SB-125	770,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	SR-113	142,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	TE-123M	167,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	TR-85	69,500,000
02 DRY SOLID	44 Concrete (2500 psi)	A U	TR-95	1,550,000
		A U	Totals	387,480,680
		A U	Totals	387,480,680
02 DRY SOLID	44 Concrete (2500 psi)	B S	H-3	26,000,000
02 DRY SOLID	44 Concrete (2500 psi)	B S	NI-63	12,820,000
		B S	Totals	38,820,000
		B S	Totals	38,820,000
02 DRY SOLID	44 Concrete (2500 psi)	C S	AM-241	39,000
02 DRY SOLID	44 Concrete (2500 psi)	C S	C-14	62,998,656
02 DRY SOLID	44 Concrete (2500 psi)	C S	RA-226	232,000
		C S	Totals	63,289,656
		C S	Totals	63,289,656
		C S	Solidification/Absorption Totals	489,600,107
02 DRY SOLID	12 Concrete (Structural)	A U	AG-110M	17,277
02 DRY SOLID	12 Concrete (Structural)	A U	AM-241	-018
02 DRY SOLID	12 Concrete (Structural)	A U	BA-133	-028
02 DRY SOLID	12 Concrete (Structural)	A U	C-14	11,984
02 DRY SOLID	12 Concrete (Structural)	A U	CA-45	-427
02 DRY SOLID	12 Concrete (Structural)	A U	CD-109	-577
02 DRY SOLID	12 Concrete (Structural)	A U	CE-141	1,769
02 DRY SOLID	12 Concrete (Structural)	A U	CF-252	-905

Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	12 Concrete (Structural)	A U	CL-36	.001
02	DRY SOLID	12 Concrete (Structural)	A U	CM-244	.505
02	DRY SOLID	12 Concrete (Structural)	A U	CO-57	.172
02	DRY SOLID	12 Concrete (Structural)	A U	CO-58	.772
02	DRY SOLID	12 Concrete (Structural)	A U	CO-60	20.582
02	DRY SOLID	12 Concrete (Structural)	A U	CR-51	.001
02	DRY SOLID	12 Concrete (Structural)	A U	CS-134	.021
02	DRY SOLID	12 Concrete (Structural)	A U	CS-137	8.170
02	DRY SOLID	12 Concrete (Structural)	A U	EU-152	.784
02	DRY SOLID	12 Concrete (Structural)	A U	EU-154	.198
02	DRY SOLID	12 Concrete (Structural)	A U	EU-155	.070
02	DRY SOLID	12 Concrete (Structural)	A U	FE-55	17.359
02	DRY SOLID	12 Concrete (Structural)	A U	GD-153	70.005
02	DRY SOLID	12 Concrete (Structural)	A U	H-3	1,363.249
02	DRY SOLID	12 Concrete (Structural)	A U	I-125	3.681
02	DRY SOLID	12 Concrete (Structural)	A U	I-129	.001
02	DRY SOLID	12 Concrete (Structural)	A U	I-131	.001
02	DRY SOLID	12 Concrete (Structural)	A U	KR-85	.005
02	DRY SOLID	12 Concrete (Structural)	A U	MV-54	2.650
02	DRY SOLID	12 Concrete (Structural)	A U	NA-22	7.460
02	DRY SOLID	12 Concrete (Structural)	A U	NB-95	1.497
02	DRY SOLID	12 Concrete (Structural)	A U	NI-63	31.923
02	DRY SOLID	12 Concrete (Structural)	A U	P-32	.701
02	DRY SOLID	12 Concrete (Structural)	A U	PB-210	75.952
02	DRY SOLID	12 Concrete (Structural)	A U	PU-239	2.688
02	DRY SOLID	12 Concrete (Structural)	A U	RA-226	42.930
02	DRY SOLID	12 Concrete (Structural)	A U	RU-103	1.757
02	DRY SOLID	12 Concrete (Structural)	A U	S-35	2.250
02	DRY SOLID	12 Concrete (Structural)	A U	SB-125	.015
02	DRY SOLID	12 Concrete (Structural)	A U	SC-46	3.318
02	DRY SOLID	12 Concrete (Structural)	A U	SE-75	.023
02	DRY SOLID	12 Concrete (Structural)	A U	SN-113	6.170
02	DRY SOLID	12 Concrete (Structural)	A U	SR-90	5.968
02	DRY SOLID	12 Concrete (Structural)	A U	TH-228	.064
02	DRY SOLID	12 Concrete (Structural)	A U	TH-230	.531
02	DRY SOLID	12 Concrete (Structural)	A U	TH-232	.471
02	DRY SOLID	12 Concrete (Structural)	A U	TL-204	.002
02	DRY SOLID	12 Concrete (Structural)	A U	U-235	.118
02	DRY SOLID	12 Concrete (Structural)	A U	U-238	1,699.687
02	DRY SOLID	12 Concrete (Structural)	A U	U-NAT	3.919
02	DRY SOLID	12 Concrete (Structural)	A U	ZN-65	10.111
			A U	Total:	3,419.004
			A	Total:	3,419.004
02	DRY SOLID	12 Concrete (Structural)	B S	C-14	4.000
02	DRY SOLID	12 Concrete (Structural)	B S	H-3	16,050.938
02	DRY SOLID	12 Concrete (Structural)	B S	NI-63	6,227.914
02	DRY SOLID	12 Concrete (Structural)	B S	RA-226	1.459



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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	12 Concrete (Structural)	B S	SR-90	63,376
		B S	Totals:	22,347.687
02 DRY SOLID	12 Concrete (Structural)	B S	Totals:	22,347.687
02 DRY SOLID	12 Concrete (Structural)	C S	C-14	6,120.000
02 DRY SOLID	12 Concrete (Structural)	C S	RA-226	260.229
		C S	Totals:	6,380.229
		C	Totals:	6,380.229
		Solidification/Absorption Totals:		32,146.920
02 DRY SOLID	14 Delaware Custom Media	A U	C-14	7.581
02 DRY SOLID	14 Delaware Custom Media	A U	CA-45	.001
02 DRY SOLID	14 Delaware Custom Media	A U	CO-58	.710
02 DRY SOLID	14 Delaware Custom Media	A U	CO-60	14.157
02 DRY SOLID	14 Delaware Custom Media	A U	CR-51	46.198
02 DRY SOLID	14 Delaware Custom Media	A U	CR-55	14.157
02 DRY SOLID	14 Delaware Custom Media	A U	FE-59	2.500
02 DRY SOLID	14 Delaware Custom Media	A U	H-3	184.772
02 DRY SOLID	14 Delaware Custom Media	A U	I-121	.009
02 DRY SOLID	14 Delaware Custom Media	A U	I-125	1,932.262
02 DRY SOLID	14 Delaware Custom Media	A U	I-131	.118
02 DRY SOLID	14 Delaware Custom Media	A U	IN-111	.008
02 DRY SOLID	14 Delaware Custom Media	A U	MN-54	2.408
02 DRY SOLID	14 Delaware Custom Media	A U	NA-22	2.710
02 DRY SOLID	14 Delaware Custom Media	A U	NI-63	.710
02 DRY SOLID	14 Delaware Custom Media	A U	P-32	77.092
02 DRY SOLID	14 Delaware Custom Media	A U	RB-86	2.500
02 DRY SOLID	14 Delaware Custom Media	A U	S-35	80.017
02 DRY SOLID	14 Delaware Custom Media	A U	TC-99M	.050
02 DRY SOLID	14 Delaware Custom Media	A U	U-238	.108
02 DRY SOLID	14 Delaware Custom Media	A U	U-NAT	.058
02 DRY SOLID	14 Delaware Custom Media	A U	Totals:	2,368.126
		A	Totals:	2,368.126
		Solidification/Absorption Totals:		2,368.126
02 DRY SOLID	27 Dicapert HP200	A U	C-14	30.000
02 DRY SOLID	27 Dicapert HP200	A U	H-3	12.000
02 DRY SOLID	27 Dicapert HP200	A U	I-125	.003
02 DRY SOLID	27 Dicapert HP200	A U	I-131	.001
02 DRY SOLID	27 Dicapert HP200	A U	P-32	.001
02 DRY SOLID	27 Dicapert HP200	A U	Totals:	42.005
		A	Totals:	42.005
		Solidification/Absorption Totals:		42.005
02 DRY SOLID	15 Envirostone	A U	AG-110M	307.063

Table F-1 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	15 Envirostone	A U	AM-241	.664
02 DRY SOLID	15 Envirostone	A U	BA-153	.090
02 DRY SOLID	15 Envirostone	A U	BA-140	.376
02 DRY SOLID	15 Envirostone	A U	C-14	18.602
02 DRY SOLID	15 Envirostone	A U	CE-141	69.000
02 DRY SOLID	15 Envirostone	A U	CE-144	388.000
02 DRY SOLID	15 Envirostone	A U	CM-242	.005
02 DRY SOLID	15 Envirostone	A U	CM-244	.017
02 DRY SOLID	15 Envirostone	A U	CO-57	26.921
02 DRY SOLID	15 Envirostone	A U	CO-58	10,604.290
02 DRY SOLID	15 Envirostone	A U	CO-60	303.470
02 DRY SOLID	15 Envirostone	A U	CR-51	120.000
02 DRY SOLID	15 Envirostone	A U	CS-134	161.510
02 DRY SOLID	15 Envirostone	A U	CS-137	578.732
02 DRY SOLID	15 Envirostone	A U	FE-55	673.362
02 DRY SOLID	15 Envirostone	A U	H-3	1,171.710
02 DRY SOLID	15 Envirostone	A U	I-125	.001
02 DRY SOLID	15 Envirostone	A U	I-129	.003
02 DRY SOLID	15 Envirostone	A U	I-131	.115
02 DRY SOLID	15 Envirostone	A U	LA-140	.433
02 DRY SOLID	15 Envirostone	A U	MN-54	3.427
02 DRY SOLID	15 Envirostone	A U	NB-95	663.000
02 DRY SOLID	15 Envirostone	A U	NI-63	627.163
02 DRY SOLID	15 Envirostone	A U	PO-210	1.500
02 DRY SOLID	15 Envirostone	A U	PU-238	.022
02 DRY SOLID	15 Envirostone	A U	PU-239	.016
02 DRY SOLID	15 Envirostone	A U	PU-241	1.273
02 DRY SOLID	15 Envirostone	A U	RA-226	.418
02 DRY SOLID	15 Envirostone	A U	RU-103	.279
02 DRY SOLID	15 Envirostone	A U	SB-125	9.844
02 DRY SOLID	15 Envirostone	A U	SM-113	.100
02 DRY SOLID	15 Envirostone	A U	SR-90	1.433
02 DRY SOLID	15 Envirostone	A U	TC-99	.241
02 DRY SOLID	15 Envirostone	A U	TE-125M	.033
02 DRY SOLID	15 Envirostone	A U	U-238	188.340
02 DRY SOLID	15 Envirostone	A U	XE-131M	.033
02 DRY SOLID	15 Envirostone	A U	ZN-65	.222
02 DRY SOLID	15 Envirostone	A U	ZR-95	334.000
		A U	Totals:	16,255.708
		A	Totals:	16,255.708
			Solidification/Absorption Totals:	16,255.708
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	AG-110M	179.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	AM-241	.141
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	C-14	132.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CE-141	.230

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CE-144	3.380
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CM-242	.024
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CM-244	.110
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CO-57	.420
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CO-58	151.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CO-60	2,490.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CR-51	.553
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CS-134	2,530.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CS-137	9,940.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	FE-55	7,270.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	H-3	159.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	MN-54	51.800
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	NB-95	5.870
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	NI-59	1.240
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	NI-63	5,650.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	PU-238	.202
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	PU-241	14.500
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	RU-103	.630
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	RU-106	2.770
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	SB-125	222.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	TC-99	9.750
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	TE-125M	51.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	TN-65	.020
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	ZR-95	3.020
02 DRY SOLID		B S	Totals	28,868.660
		B	Totals	28,868.660
			Solidification/Absorption Totals	28,868.660
02 DRY SOLID	04 Floor Dry/Superfine	A U	AB-110M	46.586
02 DRY SOLID	04 Floor Dry/Superfine	A U	AM-241	1.566
02 DRY SOLID	04 Floor Dry/Superfine	A U	AM-243	.001
02 DRY SOLID	04 Floor Dry/Superfine	A U	AS-73	.510
02 DRY SOLID	04 Floor Dry/Superfine	A U	BA-133	.044
02 DRY SOLID	04 Floor Dry/Superfine	A U	BA-140	1.620
02 DRY SOLID	04 Floor Dry/Superfine	A U	BI-205	.010
02 DRY SOLID	04 Floor Dry/Superfine	A U	BI-206	.015
02 DRY SOLID	04 Floor Dry/Superfine	A U	BI-210	.001
02 DRY SOLID	04 Floor Dry/Superfine	A U	C-14	190.830
02 DRY SOLID	04 Floor Dry/Superfine	A U	CA-45	37.196
02 DRY SOLID	04 Floor Dry/Superfine	A U	CA-47	.001
02 DRY SOLID	04 Floor Dry/Superfine	A U	CA-47	.001
02 DRY SOLID	04 Floor Dry/Superfine	A U	CB-109	.101
02 DRY SOLID	04 Floor Dry/Superfine	A U	CB-109	.011
02 DRY SOLID	04 Floor Dry/Superfine	A U	CD-115	.051
02 DRY SOLID	04 Floor Dry/Superfine	A U	CE-141	.051
02 DRY SOLID	04 Floor Dry/Superfine	A U	CE-144	28.818
02 DRY SOLID	04 Floor Dry/Superfine	A U	CL-36	2.775
02 DRY SOLID	04 Floor Dry/Superfine	A U	CM-242	.370

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	04 Floor Dry/Superfine	A U	CO-57	31.746
02 DRY SOLID	04 Floor Dry/Superfine	A U	CO-58	2,380.441
02 DRY SOLID	04 Floor Dry/Superfine	A U	CO-60	1,831.695
02 DRY SOLID	04 Floor Dry/Superfine	A U	CR-51	1,262.706
02 DRY SOLID	04 Floor Dry/Superfine	A U	CS-134	325.901
02 DRY SOLID	04 Floor Dry/Superfine	A U	CS-136	1.080
02 DRY SOLID	04 Floor Dry/Superfine	A U	CS-137	406.250
02 DRY SOLID	04 Floor Dry/Superfine	A U	DY-159	.003
02 DRY SOLID	04 Floor Dry/Superfine	A U	FE-55	4,521.820
02 DRY SOLID	04 Floor Dry/Superfine	A U	FE-59	112.286
02 DRY SOLID	04 Floor Dry/Superfine	A U	GD-153	.010
02 DRY SOLID	04 Floor Dry/Superfine	A U	H-3	38,584.570
02 DRY SOLID	04 Floor Dry/Superfine	A U	I-125	1,370.867
02 DRY SOLID	04 Floor Dry/Superfine	A U	I-129	.330
02 DRY SOLID	04 Floor Dry/Superfine	A U	I-131	41.900
02 DRY SOLID	04 Floor Dry/Superfine	A U	IP-111	20.500
02 DRY SOLID	04 Floor Dry/Superfine	A U	IN-114M	.858
02 DRY SOLID	04 Floor Dry/Superfine	A U	KR-85	424.551
02 DRY SOLID	04 Floor Dry/Superfine	A U	MN-54	437.360
02 DRY SOLID	04 Floor Dry/Superfine	A U	NA-22	7.967
02 DRY SOLID	04 Floor Dry/Superfine	A U	NB-95	513.456
02 DRY SOLID	04 Floor Dry/Superfine	A U	NI-63	372.336
02 DRY SOLID	04 Floor Dry/Superfine	A U	P-32	410.446
02 DRY SOLID	04 Floor Dry/Superfine	A U	PB-210	1.005
02 DRY SOLID	04 Floor Dry/Superfine	A U	PO-210	.084
02 DRY SOLID	04 Floor Dry/Superfine	A U	PU-241	7.393
02 DRY SOLID	04 Floor Dry/Superfine	A U	RA-226	29.758
02 DRY SOLID	04 Floor Dry/Superfine	A U	RB-86	5.010
02 DRY SOLID	04 Floor Dry/Superfine	A U	RU-103	7.170
02 DRY SOLID	04 Floor Dry/Superfine	A U	RU-106	7.080
02 DRY SOLID	04 Floor Dry/Superfine	A U	S-35	234.314
02 DRY SOLID	04 Floor Dry/Superfine	A U	SB-125	42.180
02 DRY SOLID	04 Floor Dry/Superfine	A U	SC-46	.024
02 DRY SOLID	04 Floor Dry/Superfine	A U	SE-75	.001
02 DRY SOLID	04 Floor Dry/Superfine	A U	SR-85	.024
02 DRY SOLID	04 Floor Dry/Superfine	A U	SR-89	.635
02 DRY SOLID	04 Floor Dry/Superfine	A U	SR-90	3.973
02 DRY SOLID	04 Floor Dry/Superfine	A U	TC-99	.324
02 DRY SOLID	04 Floor Dry/Superfine	A U	TH-230	.018
02 DRY SOLID	04 Floor Dry/Superfine	A U	TH-232	.944
02 DRY SOLID	04 Floor Dry/Superfine	A U	TH-NAT	.002
02 DRY SOLID	04 Floor Dry/Superfine	A U	TL-201	.003
02 DRY SOLID	04 Floor Dry/Superfine	A U	TL-204	.001
02 DRY SOLID	04 Floor Dry/Superfine	A U	U-235	.002
02 DRY SOLID	04 Floor Dry/Superfine	A U	U-238	35.942
02 DRY SOLID	04 Floor Dry/Superfine	A U	U-NAT	.007
02 DRY SOLID	04 Floor Dry/Superfine	A U	ZN-65	639.483

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Table F-1 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (uCi)
02 DRY SOLID	04 Floor Dry/Superfine	A U	ZR-95	191,390
		A U	Total:	54,576.352
		A	Total:	54,576.352
02 DRY SOLID	04 Floor Dry/Superfine	C S	AG-108M	1.000
02 DRY SOLID	04 Floor Dry/Superfine	C S	AG-110M	32.425
02 DRY SOLID	04 Floor Dry/Superfine	C S	AM-241	1.609
02 DRY SOLID	04 Floor Dry/Superfine	C S	BA-140	12.901
02 DRY SOLID	04 Floor Dry/Superfine	C S	C-14	21.038
02 DRY SOLID	04 Floor Dry/Superfine	C S	CE-141	12.052
02 DRY SOLID	04 Floor Dry/Superfine	C S	CE-144	213.774
02 DRY SOLID	04 Floor Dry/Superfine	C S	CM-242	32.636
02 DRY SOLID	04 Floor Dry/Superfine	C S	CM-243	2.994
02 DRY SOLID	04 Floor Dry/Superfine	C S	CM-244	.001
02 DRY SOLID	04 Floor Dry/Superfine	C S	CO-57	574.917
02 DRY SOLID	04 Floor Dry/Superfine	C S	CO-58	7,140.973
02 DRY SOLID	04 Floor Dry/Superfine	C S	CO-60	33,193.000
02 DRY SOLID	04 Floor Dry/Superfine	C S	CR-51	4,321.726
02 DRY SOLID	04 Floor Dry/Superfine	C S	CS-134	287.880
02 DRY SOLID	04 Floor Dry/Superfine	C S	CS-136	8.581
02 DRY SOLID	04 Floor Dry/Superfine	C S	CS-137	1,149.700
02 DRY SOLID	04 Floor Dry/Superfine	C S	FE-55	110,490.000
02 DRY SOLID	04 Floor Dry/Superfine	C S	FE-59	255.396
02 DRY SOLID	04 Floor Dry/Superfine	C S	H-3	2,761.250
02 DRY SOLID	04 Floor Dry/Superfine	C S	I-129	3.522
02 DRY SOLID	04 Floor Dry/Superfine	C S	I-131	22.200
02 DRY SOLID	04 Floor Dry/Superfine	C S	MN-54	1,930.800
02 DRY SOLID	04 Floor Dry/Superfine	C S	NB-95	2,116.162
02 DRY SOLID	04 Floor Dry/Superfine	C S	NI-59	15.150
02 DRY SOLID	04 Floor Dry/Superfine	C S	NI-63	11,831.000
02 DRY SOLID	04 Floor Dry/Superfine	C S	PU-238	4.342
02 DRY SOLID	04 Floor Dry/Superfine	C S	PU-239	3.467
02 DRY SOLID	04 Floor Dry/Superfine	C S	PU-240	.001
02 DRY SOLID	04 Floor Dry/Superfine	C S	PU-241	345.250
02 DRY SOLID	04 Floor Dry/Superfine	C S	PU-242	.003
02 DRY SOLID	04 Floor Dry/Superfine	C S	RU-103	77.186
02 DRY SOLID	04 Floor Dry/Superfine	C S	RU 106	34.670
02 DRY SOLID	04 Floor Dry/Superfine	C S	SB-124	33.949
02 DRY SOLID	04 Floor Dry/Superfine	C S	SB-125	443.410
02 DRY SOLID	04 Floor Dry/Superfine	C S	SN-113	6.050
02 DRY SOLID	04 Floor Dry/Superfine	C S	SR-89	282.653
02 DRY SOLID	04 Floor Dry/Superfine	C S	SR-90	141.363
02 DRY SOLID	04 Floor Dry/Superfine	C S	TC-99	7.083
02 DRY SOLID	04 Floor Dry/Superfine	C S	TH-228	.023
02 DRY SOLID	04 Floor Dry/Superfine	C S	U-234	.001
02 DRY SOLID	04 Floor Dry/Superfine	C S	U-238	.001
02 DRY SOLID	04 Floor Dry/Superfine	C S	ZN-65	23.461
02 DRY SOLID	04 Floor Dry/Superfine	C S	ZR-95	1,313.704

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Table F-1 (Continued)

Waste Description		Solidification / Absorption Media		Waste Class		Isotope	Activity (mCi)
				C	S	Totals:	179,149.304
				C		Totals:	179,149.304
				Solidification/Absorption		Totals:	233,725.656
02	DRY SOLID	05	Hi Dri	A	U	C-14	2.010
02	DRY SOLID	05	Hi Dri	A	U	CL-36	.050
02	DRY SOLID	05	Hi Dri	A	U	CO-57	.500
02	DRY SOLID	05	Hi Dri	A	U	CR-51	5.000
02	DRY SOLID	05	Hi Dri	A	U	H-3	1,031.450
02	DRY SOLID	05	Hi Dri	A	U	I-125	27.450
02	DRY SOLID	05	Hi Dri	A	U	P-32	17.510
02	DRY SOLID	05	Hi Dri	A	U	S-35	36.890
02	DRY SOLID	05	Hi Dri	A	U	U-238	113.490
				A	U	Totals:	1,234.340
				A		Totals:	1,234.340
				Solidification/Absorption		Totals:	1,234.340
02	DRY SOLID	98	None Required	A	U	AG-105	.002
02	DRY SOLID	98	None Required	A	U	AG-110	1.470
02	DRY SOLID	98	None Required	A	U	AG-110M	13.602
02	DRY SOLID	98	None Required	A	U	AM-241	4.420
02	DRY SOLID	98	None Required	A	U	AM-243	.030
02	DRY SOLID	98	None Required	A	U	AS-73	.010
02	DRY SOLID	98	None Required	A	U	AU-195	4.612
02	DRY SOLID	98	None Required	A	U	BA-133	26.562
02	DRY SOLID	98	None Required	A	U	BA-140	83.565
02	DRY SOLID	98	None Required	A	U	B1-204	5.000
02	DRY SOLID	98	None Required	A	U	B1-206	.010
02	DRY SOLID	98	None Required	A	U	B1-207	1.111
02	DRY SOLID	98	None Required	A	U	C-14	76,643.954
02	DRY SOLID	98	None Required	A	U	C-15	.060
02	DRY SOLID	98	None Required	A	U	CA-45	170.383
02	DRY SOLID	98	None Required	A	U	CA-47	.100
02	DRY SOLID	98	None Required	A	U	CD-109	53.475
02	DRY SOLID	98	None Required	A	U	CD-115	.003
02	DRY SOLID	98	None Required	A	U	CE-139	.130
02	DRY SOLID	98	None Required	A	U	CE-141	19.264
02	DRY SOLID	98	None Required	A	U	CE-144	5.987
02	DRY SOLID	98	None Required	A	U	CF-252	.002
02	DRY SOLID	98	None Required	A	U	CL-36	58.298
02	DRY SOLID	98	None Required	A	U	CM-242	.046
02	DRY SOLID	98	None Required	A	U	CM-243	.002
02	DRY SOLID	98	None Required	A	U	CM-244	.714
02	DRY SOLID	98	None Required	A	U	CO-56	.036
02	DRY SOLID	98	None Required	A	U	CO-57	593.034

Table F-1 (Continued)

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Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Maste Class	Isotope	Activity (mCi)
02 DRY SOLID	98 None Required	A U	CO-58	572.206
02 DRY SOLID	98 None Required	A U	CO-60	10,283.506
02 DRY SOLID	98 None Required	A U	CR-51	2,114.162
02 DRY SOLID	98 None Required	A U	CS-127	20.640
02 DRY SOLID	98 None Required	A U	CS-134	2,567.254
02 DRY SOLID	98 None Required	A U	CS-136	.362
02 DRY SOLID	98 None Required	A U	CS-137	3,247.350
02 DRY SOLID	98 None Required	A U	CS-141	.001
02 DRY SOLID	98 None Required	A U	DV-159	.006
02 DRY SOLID	98 None Required	A U	DV-165	.001
02 DRY SOLID	98 None Required	A U	EU-151	.001
02 DRY SOLID	98 None Required	A U	EU-152	7.678
02 DRY SOLID	98 None Required	A U	EU-154	4.084
02 DRY SOLID	98 None Required	A U	EU-155	.297
02 DRY SOLID	98 None Required	A U	FE-53	.200
02 DRY SOLID	98 None Required	A U	FE-55	4,224.118
02 DRY SOLID	98 None Required	A U	FE-59	75.190
02 DRY SOLID	98 None Required	A U	GA-67	66.137
02 DRY SOLID	98 None Required	A U	GA-68	.006
02 DRY SOLID	98 None Required	A U	GO-153	42.853
02 DRY SOLID	98 None Required	A U	GE-68	51.015
02 DRY SOLID	98 None Required	A U	H-3	1,511,925.259
02 DRY SOLID	98 None Required	A U	HF-175	.002
02 DRY SOLID	98 None Required	A U	HF-181	.096
02 DRY SOLID	98 None Required	A U	HG-203	35.931
02 DRY SOLID	98 None Required	A U	I-123	18.092
02 DRY SOLID	98 None Required	A U	I-124	.010
02 DRY SOLID	98 None Required	A U	I-125	12,230.213
02 DRY SOLID	98 None Required	A U	I-128	1.760
02 DRY SOLID	98 None Required	A U	I-129	8.566
02 DRY SOLID	98 None Required	A U	I-131	296.873
02 DRY SOLID	98 None Required	A U	IN-111	128.329
02 DRY SOLID	98 None Required	A U	IN-113	.070
02 DRY SOLID	98 None Required	A U	IN-114	.140
02 DRY SOLID	98 None Required	A U	IN-114M	21.288
02 DRY SOLID	98 None Required	A U	IR-197	.011
02 DRY SOLID	98 None Required	A U	KR-85	1,371.730
02 DRY SOLID	98 None Required	A U	LA-140	96.254
02 DRY SOLID	98 None Required	A U	MM-54	1,027.582
02 DRY SOLID	98 None Required	A U	MD-99	.050
02 DRY SOLID	98 None Required	A U	NA-22	316.312
02 DRY SOLID	98 None Required	A U	NA-24	.013
02 DRY SOLID	98 None Required	A U	NB-94	.190
02 DRY SOLID	98 None Required	A U	NB-95	175.349
02 DRY SOLID	98 None Required	A U	NB-96	.010
02 DRY SOLID	98 None Required	A U	NI-59	.090
02 DRY SOLID	98 None Required	A U	NI-63	5,526.080

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	98 None Required	A U NP-237		.016
02 DRY SOLID	98 None Required	A U P-32		8,565.761
02 DRY SOLID	98 None Required	A U F-33		.826
02 DRY SOLID	98 None Required	A U RB-206		.010
02 DRY SOLID	98 None Required	A U PB-210		.032
02 DRY SOLID	98 None Required	A U PB-147		830.105
02 DRY SOLID	98 None Required	A U PO-208		.022
02 DRY SOLID	98 None Required	A U PO-209		.010
02 DRY SOLID	98 None Required	A U PO-210		9.631
02 DRY SOLID	98 None Required	A U PU-238		.457
02 DRY SOLID	98 None Required	A U PU-239		3.568
02 DRY SOLID	98 None Required	A U PU-240		1.426
02 DRY SOLID	98 None Required	A U PU-241		29.890
02 DRY SOLID	98 None Required	A U PU-242		.031
02 DRY SOLID	98 None Required	A U RA-226		104.526
02 DRY SOLID	98 None Required	A U RB-83		9.000
02 DRY SOLID	98 None Required	A U RB-86		38.706
02 DRY SOLID	98 None Required	A U RE-187		.002
02 DRY SOLID	98 None Required	A U RH-101		1.000
02 DRY SOLID	98 None Required	A U RH-102		1.000
02 DRY SOLID	98 None Required	A U RU-103		7.203
02 DRY SOLID	98 None Required	A U RU-106		.215
02 DRY SOLID	98 None Required	A U S-35		46,349.993
02 DRY SOLID	98 None Required	A U SB-122		.020
02 DRY SOLID	98 None Required	A U SB-124		18.856
02 DRY SOLID	98 None Required	A U SB-125		35.107
02 DRY SOLID	98 None Required	A U SB-126		.080
02 DRY SOLID	98 None Required	A U SC-46		17.274
02 DRY SOLID	98 None Required	A U SE-75		2,215.693
02 DRY SOLID	98 None Required	A U SM-151		1,488.700
02 DRY SOLID	98 None Required	A U SM-153		.010
02 DRY SOLID	98 None Required	A U SN-113		36.671
02 DRY SOLID	98 None Required	A U SN-117M		.100
02 DRY SOLID	98 None Required	A U SN-119		.310
02 DRY SOLID	98 None Required	A U SN-119M		1.330
02 DRY SOLID	98 None Required	A U SR-85		4.650
02 DRY SOLID	98 None Required	A U SR-89		1.071
02 DRY SOLID	98 None Required	A U SR-90		174.557
02 DRY SOLID	98 None Required	A U TA-179		1.630
02 DRY SOLID	98 None Required	A U TA-179		.002
02 DRY SOLID	98 None Required	A U TA-182		.080
02 DRY SOLID	98 None Required	A U TB-157		.002
02 DRY SOLID	98 None Required	A U TB-158		.002
02 DRY SOLID	98 None Required	A U TC-99		389.567
02 DRY SOLID	98 None Required	A U TC-99M		36.302
02 DRY SOLID	98 None Required	A U TE-123M		20.000
02 DRY SOLID	98 None Required	A U TE-123M		2.016

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	98 None Required	A U	T4-228	.313
02 DRY SOLID	98 None Required	A U	T4-230	.009
02 DRY SOLID	98 None Required	A U	T4-232	64.487
02 DRY SOLID	98 None Required	A U	T4-NAT	679.962
02 DRY SOLID	98 None Required	A U	TL-203	31.153
02 DRY SOLID	98 None Required	A U	TL-202	8.973
02 DRY SOLID	98 None Required	A U	TL-204	5.156
02 DRY SOLID	98 None Required	A U	U-233	.017
02 DRY SOLID	98 None Required	A U	U-234	449.835
02 DRY SOLID	98 None Required	A U	U-235	88.223
02 DRY SOLID	98 None Required	A U	U-236	.036
02 DRY SOLID	98 None Required	A U	U-238	8,986.525
02 DRY SOLID	98 None Required	A U	U-NAT	14.511
02 DRY SOLID	98 None Required	A U	W-181	.010
02 DRY SOLID	98 None Required	A U	W-188	5.000
02 DRY SOLID	98 None Required	A U	XE-131M	4.292
02 DRY SOLID	98 None Required	A U	XE-133	30.000
02 DRY SOLID	98 None Required	A U	Y-88	1.956
02 DRY SOLID	98 None Required	A U	Y-90	.111
02 DRY SOLID	98 None Required	A U	YB-169	.120
02 DRY SOLID	98 None Required	A U	ZN-65	21.131.779
02 DRY SOLID	98 None Required	A U	ZR-95	82.677
02 DRY SOLID	98 None Required	A U	Totals	1,726,015.904
02 DRY SOLID	98 None Required	A S	H-3	1,726,015.904
02 DRY SOLID	98 None Required	B S	Totals	54,302,000.000
02 DRY SOLID	98 None Required	B S	Totals	54,302,000.000
02 DRY SOLID	98 None Required	C S	AM-241	3.953
02 DRY SOLID	98 None Required	C S	FU-238	1.210
02 DRY SOLID	98 None Required	C S	FU-239	7.437
02 DRY SOLID	98 None Required	C S	FU-240	3.692
02 DRY SOLID	98 None Required	C S	FU-241	75.278
02 DRY SOLID	98 None Required	C S	FU-242	.008
02 DRY SOLID	98 None Required	C S	Totals	91.578
02 DRY SOLID	98 None Required	C S	Totals	91.578
02 DRY SOLID	98 None Required	C S	Solidification/Absorption Totals	56,028,107.482
02 DRY SOLID	96 Other Solidification Media	A U	C-14	.061
02 DRY SOLID	96 Other Solidification Media	A U	CO-58	1.078
02 DRY SOLID	96 Other Solidification Media	A U	CO-60	48.599
02 DRY SOLID	96 Other Solidification Media	A U	CR-51	1.577
02 DRY SOLID	96 Other Solidification Media	A U	CS-137	6.778
02 DRY SOLID	96 Other Solidification Media	A U	FE-55	11.878
02 DRY SOLID	96 Other Solidification Media	A U	H-3	3.913
02 DRY SOLID	96 Other Solidification Media	A U	I-129	.008
02 DRY SOLID	96 Other Solidification Media	A U	MN-54	9.182

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Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	96 Other Solidification Media	A U	NI-63	.686
02	DRY SOLID	96 Other Solidification Media	A U	TC-99	.013
02	DRY SOLID	96 Other Solidification Media	A U	ZN-65	.819
			A U	Totals:	84.592
			A	Totals:	84.592
			Solidification/Absorption Totals:		84.592
02	DRY SOLID	95 Other Sorbent	A U	H-3	.010
02	DRY SOLID	95 Other Sorbent	A U	I-125	.010
			A U	Totals:	.020
			A	Totals:	.020
			Solidification/Absorption Totals:		.020
02	DRY SOLID	09 Safe-N-Dri	A U	C-14	43.221
02	DRY SOLID	09 Safe-N-Dri	A U	CM-242	.086
02	DRY SOLID	09 Safe-N-Dri	A U	CM-244	.016
02	DRY SOLID	09 Safe-N-Dri	A U	CO-58	29.510
02	DRY SOLID	09 Safe-N-Dri	A U	CO-60	2,388.445
02	DRY SOLID	09 Safe-N-Dri	A U	CR-51	372.500
02	DRY SOLID	09 Safe-N-Dri	A U	CS-134	5.234
02	DRY SOLID	09 Safe-N-Dri	A U	CS-137	7.104
02	DRY SOLID	09 Safe-N-Dri	A U	FE-55	5,984.299
02	DRY SOLID	09 Safe-N-Dri	A U	FE-59	16.160
02	DRY SOLID	09 Safe-N-Dri	A U	H-3	1.166
02	DRY SOLID	09 Safe-N-Dri	A U	I-129	.234
02	DRY SOLID	09 Safe-N-Dri	A U	MN-54	161.600
02	DRY SOLID	09 Safe-N-Dri	A U	NI-63	271.746
02	DRY SOLID	09 Safe-N-Dri	A U	PU-238	.113
02	DRY SOLID	09 Safe-N-Dri	A U	PU-239	.036
02	DRY SOLID	09 Safe-N-Dri	A U	PU-241	8.440
02	DRY SOLID	09 Safe-N-Dri	A U	TC-99	.234
02	DRY SOLID	09 Safe-N-Dri	A U	TH-NAT	6.730
02	DRY SOLID	09 Safe-N-Dri	A U	ZN-65	8.440
			A U	Totals:	9,305.314
			A	Totals:	9,305.314
			Solidification/Absorption Totals:		9,305.314
02	DRY SOLID	23 Solid-A-Sorb	A U	C-14	5.860
02	DRY SOLID	23 Solid-A-Sorb	A U	CA-45	7.500
02	DRY SOLID	23 Solid-A-Sorb	A U	CR-51	.077
02	DRY SOLID	23 Solid-A-Sorb	A U	H-3	19.268
02	DRY SOLID	23 Solid-A-Sorb	A U	I-125	21.240
02	DRY SOLID	23 Solid-A-Sorb	A U	P-32	12.281
02	DRY SOLID	23 Solid-A-Sorb	A U	S-35	12.975

Table F-1 (Continued)

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
				A U	Totals:	79.201
				A	Total:	79.201
				Solidification/Absorption Totals:		79.201
02	DRY SOLID	02	Speedi Dri	A U	C-14	.650
02	DRY SOLID	02	Speedi Dri	A U	CR-51	1.370
02	DRY SOLID	02	Speedi Dri	A U	H-3	15.920
02	DRY SOLID	02	Speedi Dri	A U	I-125	1.200
02	DRY SOLID	02	Speedi Dri	A U	P-32	.300
02	DRY SOLID	02	Speedi Dri	A U	S-35	12.700
02	DRY SOLID	02	Speedi Dri	A U	TH-NAT	5,445.920
				A U	Totals:	6,478.060
				A	Total:	6,478.060
				Solidification/Absorption Totals:		6,478.060
02	DRY SOLID	48	Stock Equipment Cement	A U	AM-241	.011
02	DRY SOLID	48	Stock Equipment Cement	A U	BI-210	.033
02	DRY SOLID	48	Stock Equipment Cement	A U	C-14	.001
02	DRY SOLID	48	Stock Equipment Cement	A U	CO-58	.034
02	DRY SOLID	48	Stock Equipment Cement	A U	CO-60	.003
02	DRY SOLID	48	Stock Equipment Cement	A U	CS-137	.001
02	DRY SOLID	48	Stock Equipment Cement	A U	FE-55	.072
02	DRY SOLID	48	Stock Equipment Cement	A U	I-129	.001
02	DRY SOLID	48	Stock Equipment Cement	A U	NA-22	.001
02	DRY SOLID	48	Stock Equipment Cement	A U	PT-193	.001
02	DRY SOLID	48	Stock Equipment Cement	A U	RA-226	1.593
				A U	Totals:	1.753
				A	Total:	1.753
				Solidification/Absorption Totals:		1.753
02	DRY SOLID		blank	A U	AG-110M	21.210
02	DRY SOLID		blank	A U	AM-241	20.893
02	DRY SOLID		blank	A U	BA-133	.350
02	DRY SOLID		blank	A U	BA-140	.266
02	DRY SOLID		blank	A U	C-14	425.286
02	DRY SOLID		blank	A U	CA-45	5.010
02	DRY SOLID		blank	A U	CE-141	.735
02	DRY SOLID		blank	A U	CE-144	.058
02	DRY SOLID		blank	A U	CM-242	.118
02	DRY SOLID		blank	A U	CM-244	.026
02	DRY SOLID		blank	A U	CO-57	7.951
02	DRY SOLID		blank	A U	CO-58	258.334
02	DRY SOLID		blank	A U	CO-60	12,819.395
02	DRY SOLID		blank	A U	CR-51	850.163

Table F-1 (Continued)

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Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	blank	A U	CS-134	963.284
02	DRY SOLID	blank	A U	CS-136	.329
02	DRY SOLID	blank	A U	CB-137	949.634
02	DRY SOLID	blank	A U	FE-55	32,475.107
02	DRY SOLID	blank	A U	FE-59	24.170
02	DRY SOLID	blank	A U	GA-68	1.400
02	DRY SOLID	blank	A U	GE-68	1.200
02	DRY SOLID	blank	A U	H-3	1,824.287
02	DRY SOLID	blank	A U	I-125	805.222
02	DRY SOLID	blank	A U	I-129	.040
02	DRY SOLID	blank	A U	I-131	46.743
02	DRY SOLID	blank	A U	IN-111	.100
02	DRY SOLID	blank	A U	LA-140	.306
02	DRY SOLID	blank	A U	MN-54	2,130.067
02	DRY SOLID	blank	A U	NA-22	.150
02	DRY SOLID	blank	A U	NB-95	10.515
02	DRY SOLID	blank	A U	NI-59	9.450
02	DRY SOLID	blank	A U	NI-63	575.360
02	DRY SOLID	blank	A U	NI-63P1	2,949.990
02	DRY SOLID	blank	A U	P-32	200.069
02	DRY SOLID	blank	A U	PA-231	.003
02	DRY SOLID	blank	A U	PO-210	3,144.927
02	DRY SOLID	blank	A U	PU-238	.158
02	DRY SOLID	blank	A U	PU-239	.057
02	DRY SOLID	blank	A U	PU-241	11.956
02	DRY SOLID	blank	A U	RA-226	.009
02	DRY SOLID	blank	A U	RU-103	.296
02	DRY SOLID	blank	A U	S-35	262.137
02	DRY SOLID	blank	A U	SC-41	.050
02	DRY SOLID	blank	A U	SC-46	.242
02	DRY SOLID	blank	A U	SM-153	22.890
02	DRY SOLID	blank	A U	SN-113	.145
02	DRY SOLID	blank	A U	BR-85	7.460
02	DRY SOLID	blank	A U	BR-90	45.796
02	DRY SOLID	blank	A U	TC-99	.098
02	DRY SOLID	blank	A U	TH-232	31.130
02	DRY SOLID	blank	A U	TH-NAT	252.800
02	DRY SOLID	blank	A U	U-NAT	1,009.000
02	DRY SOLID	blank	A U	XE-131M	.046
02	DRY SOLID	blank	A U	ZN-65	8,331.360
			A U	Totals:	70,497.288
			A	Totals:	70,497.288
02	DRY SOLID	blank	C S	AG-110M	122.000
02	DRY SOLID	blank	C S	C-14	.043
02	DRY SOLID	blank	C S	CE-144	95.000
02	DRY SOLID	blank	C S	CM-242	3.630
02	DRY SOLID	blank	C S	CM-243	.688

Table F-1 (Continued)

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Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	blank	C S	CO-57	44.600
02	DRY SOLID	blank	C S	CO-58	6,890.000
02	DRY SOLID	blank	C S	CO-60	7,300.000
02	DRY SOLID	blank	C S	CR-51	1,720.000
02	DRY SOLID	blank	C S	CS-134	22.700
02	DRY SOLID	blank	C S	CS-136	3.110
02	DRY SOLID	blank	C S	CS-137	35.100
02	DRY SOLID	blank	C S	FE-55	15,900.000
02	DRY SOLID	blank	C S	FE-59	271.000
02	DRY SOLID	blank	C S	H-3	37.000
02	DRY SOLID	blank	C S	I-129	.024
02	DRY SOLID	blank	C S	MN-54	1,350.000
02	DRY SOLID	blank	C S	NB-95	1,830.000
02	DRY SOLID	blank	C S	NI-59	1.340
02	DRY SOLID	blank	C S	NI-63	2,060.000
02	DRY SOLID	blank	C S	PU-238	.643
02	DRY SOLID	blank	C S	PU-241	47.800
02	DRY SOLID	blank	C S	RU-103	22.500
02	DRY SOLID	blank	C S	SB-125	75.900
02	DRY SOLID	blank	C S	SR-89	3.590
02	DRY SOLID	blank	C S	SR-90	4.050
02	DRY SOLID	blank	C S	TC-99	.016
02	DRY SOLID	blank	C S	ZR-95	935.000
					935.000
					C S Totals: 38,775.734
					C Totals: 38,775.734
					Solidification/Absorption Totals: 109,273.022
DRY SOLID					Waste Description Total: 56,964,562.993

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	AM-241	.051
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	C-14	8.516
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CM-242	1.043
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CM-244	.336
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CO-57	105.681
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CO-58	587.807
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CO-60	1,331.052
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CR-51	.851
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CS-134	314.807
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CS-137	633.950
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	FE-55	171.100
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	FE-59	.228
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	H-3	1,580.300
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	I-129	2.092
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	I-131	.357
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	MN-54	266.095
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	NB-95	.142
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	NI-63	375.980
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PU-238	.080
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PU-239	.041
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PU-241	5.398
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PU-242	.160
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	SB-125	18.859
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	SE-75	.535
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	SR-90	6.587
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	TC-99	27.832
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	TE-125M	4.549
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	XE-131M	.010
		A U	Total:	5,444.439
		A U	Total:	5,444.439
		Solidification/Absorption Total:		5,444.439
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	AG-110	315.726
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	AM-241	.029
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	C-14	52.182
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CM-242	.079
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CM-243	.011
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CO-57	3.761
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CO-58	624.061
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CO-60	3,223.513
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CR-51	58.826
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	FE-55	5,086.426
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	H-3	15.854
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	I-129	.040
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	MN-54	303.317

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	NB-95	306.591
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	NB-97	10.452
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	NI-63	1,215.160
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	NP-237	.004
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	PU-238	.019
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	PU-239	.027
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	PU-241	1.617
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	PU-242	.006
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	SB-124	17.314
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	SB-125	37.599
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	SN-113	16.192
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	SR-92	41.897
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	TC-99	.022
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	IN-65	29.960
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	ZR-95	75.504
20	EVAPORATOR BOTTOMS	12	Concrete (Structural)	A U	ZR-97	10.432
				A U	Total:	11,446.601
				A	Total:	11,446.601
				Solidification/Absorption Total:		11,446.601
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	AG-110M	4.083
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	C-14	6.210
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	CO-57	1.447
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	CO-58	349.900
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	CO-60	89.500
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	CS-134	216.900
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	CS-137	864.000
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	FE-55	83.900
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	H-3	879.000
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	MN-54	3.710
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	NI-63	130.100
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	PU-238	.105
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	PU-241	.234
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	SB-125	18.110
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	SR-90	1.900
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	TC-99	.006
20	EVAPORATOR BOTTOMS	15	Envirostone	A U	TE-125M	.985
				A U	Total:	2,650.090
				A	Total:	2,650.090
				Solidification/Absorption Total:		2,650.090
20	EVAPORATOR BOTTOMS	98	None Required	A U	AG-110	.107
20	EVAPORATOR BOTTOMS	98	None Required	A U	AM-241	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	C-14	4.014
20	EVAPORATOR BOTTOMS	98	None Required	A U	CM-242	.001

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Table F-1 (Continued)

F-51

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
20	EVAPORATOR BOTTOMS	98	None Required	A U	Cm-247	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Co-57	.002
20	EVAPORATOR BOTTOMS	98	None Required	A U	Co-59	.230
20	EVAPORATOR BOTTOMS	98	None Required	A U	Co-60	.376
20	EVAPORATOR BOTTOMS	98	None Required	A U	Cr-51	.031
20	EVAPORATOR BOTTOMS	98	None Required	A U	Fe-55	.593
20	EVAPORATOR BOTTOMS	98	None Required	A U	H-3	1.415
20	EVAPORATOR BOTTOMS	98	None Required	A U	I-129	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Mn-54	.619
20	EVAPORATOR BOTTOMS	98	None Required	A U	Nb-95	.092
20	EVAPORATOR BOTTOMS	98	None Required	A U	Nb-97	.005
20	EVAPORATOR BOTTOMS	98	None Required	A U	Ni-63	.142
20	EVAPORATOR BOTTOMS	98	None Required	A U	Np-237	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Pu-238	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Pu-239	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Pu-241	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Pu-242	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Sr-124	.009
20	EVAPORATOR BOTTOMS	98	None Required	A U	Sr-125	.020
20	EVAPORATOR BOTTOMS	98	None Required	A U	Sn-113	.008
20	EVAPORATOR BOTTOMS	98	None Required	A U	T 19	.001
20	EVAPORATOR BOTTOMS	98	None Required	A U	Zn-65	.016
20	EVAPORATOR BOTTOMS	98	None Required	A U	Zr-95	.039
20	EVAPORATOR BOTTOMS	98	None Required	A U	Zr-97	.005
				A U	Totals:	7.133
				A	Totals:	7.133
				Solidification/Absorption Totals:		7.133
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	C-14	125.585
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Co-58	1,118.800
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Co-60	359.550
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Cs-134	1,113.055
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Cs-137	1,814.937
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Fe-55	243.659
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	H-3	12,209.440
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	I-129	.002
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Nb-95	7.500
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Ni-63	104.420
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Sr-124	1,212.968
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Sr-125	52.920
20	EVAPORATOR BOTTOMS	96	Other Solidification Media	A U	Tc-99	.414
				A U	Totals:	18,371.250
				A	Totals:	18,371.250
				Solidification/Absorption Totals:		18,371.250

Table F-1 (Continued)

F-52

Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
20	EVAPORATOR BOTTOMS	45 Westinghouse-Hittman Cement	A U	AG-110M	242.500
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	AM-241	.070
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	C-14	98.080
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CE-144	7.443
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CM-242	.543
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CM-243	.057
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CO-57	18.070
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CO-58	4,067.000
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CO-60	135.420
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CS-134	1,056.900
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CS-136	289.000
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CS-137	1,843.000
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	FE-55	242.500
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	FE-59	15.896
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	H-3	3,126.000
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	I-129	.066
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	MN-54	9.759
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	NI-59	8.965
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	NI-63	750.200
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	PU-238	.237
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	PU-239	.107
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	PU-241	7.592
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	SR-89	3.611
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	SR-90	12.647
20	EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	TC-99	.047
				A U Totals	11,935.710
				A Totals	11,935.710
				Solidification/Absorption Totals	11,935.710
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EVAPORATOR BOTTOMS		Waste Description Totals		49,855.223	

Table F-1 (Continued)



Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
15	GAS	98 None Required	A U	KR-85	120.404
15	GAS	98 None Required	A U	RA-226	2.090
			A U	Totals	123.494
			A	Totals	123.494
			Solidification/Absorption Totals		123.494
15	GAS	95 Other Sorbent	A U	KR-85	26.640
15	GAS	95 Other Sorbent	A U	RA-226	1.150
			A U	Totals	26.790
			A	Totals	26.790
			Solidification/Absorption Totals		26.790
Waste Description Totals					150.284

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Table F-1 (Continued)



Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 H <sub>2</sub> D-1	A U	H-3	1.230
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 H <sub>2</sub> D-1	A U	I-125	.020
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 H <sub>2</sub> D-1	A U	P-32	.450
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT	05 H <sub>2</sub> D-1	A U	S-35	.420
		A U	Totals	2.120
		A	Totals	2.120
		Solidification/Absorpt on Totals		2.120
12 NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT	98 None Required	A U	RA-226	.900
		A U	Totals	.900
		A	Totals	.900
		Solidification/Absorption Totals		.900
NON-AQUEOUS LIQUIDS IN VIALS IN SORBENT		Waste Description Totals		3.020

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	C-14	6.514
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	CO-58	210.245
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	CO-60	3,063.484
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	CR-51	68.676
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	FE-55	23,636.018
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	FE-59	39.688
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	MN-54	7,118.730
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	NI-63	1.800
		A U	Total:	36,145.155
		A	Total:	36,145.155
		Solidification/Absorption Total:		36,145.155
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	C-14	.154
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	CO-58	.383
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	CO-60	7.623
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	FE-55	7.623
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	H-3	2.073
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	MN-54	1.297
24 NON-CARTRIDGE FILTER MEDIA	14 Delaware Custom Media	A U	NI-63	.383
		A U	Total:	19.536
		A	Total:	19.536
		Solidification/Absorption Total:		19.536
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	AM-241	.007
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	C-14	298.270
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CE-144	3.037
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CM-242	.023
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CM-243	.003
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CM-244	.003
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CO-57	18.265
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CO-58	499.197
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CO-60	2,182.006
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CS-134	2,790.567
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CS-137	4,619.307
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	FE-55	9,154.492
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	H-3	488.443
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	I-129	.027
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	MN-54	296.486
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	NB-95	5.629
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	NI-59	14.211
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	NI-63	1,384.369
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-239	.007
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-239	.012
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-240	.012

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Table F-1 (Continued)

F-56

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
24	NON-CARTRIDGE FILTER MEDIA	47	LN Technologies Cement	B S	PU-241	1.865
24	NON-CARTRIDGE FILTER MEDIA	47	LN Technologies Cement	B S	SB-125	29.459
24	NON-CARTRIDGE FILTER MEDIA	47	LN Technologies Cement	B S	SR-89	.020
24	NON-CARTRIDGE FILTER MEDIA	47	LN Technologies Cement	B S	SR-90	1.045
24	NON-CARTRIDGE FILTER MEDIA	47	LN Technologies Cement	B S	TC-99	.907
				B S	Totals:	21,780.769
				B	Totals:	21,780.769
				Solidification/Absorption Totals:		21,780.769
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	C-14	360.143
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	CO-58	22,879.247
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	CO-60	173,568.634
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	CR-51	443,563.000
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	CS-134	.489
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	CS-137	1,034.120
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	FE-55	659,059.658
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	FE-59	27,196.000
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	H-3	2,051.829
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	MN-54	101,113.313
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	NB-95	7,910.030
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	NI-63	4,125.648
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	SB-124	.471
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	SB-125	.056
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	SR-90	14.580
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	TC-99	.183
24	NON-CARTRIDGE FILTER MEDIA	blank		A U	ZN-65	1,255.000
				A U	Totals:	1,443,232.371
				A	Totals:	1,443,232.371
				Solidification/Absorption Totals:		1,443,232.371
NON-CARTRIDGE FILTER MEDIA						Waste Description Totals: 1,501,177.831

Table F-1 (Continued)

Waste Description				Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
22	NON-COMPACTED	DRY	ACTIVE WASTE	37	Chem-Nuclear Cement	A U	AM-241	.605
22	NON-COMPACTED	DRY	ACTIVE WASTE	37	Chem-Nuclear Cement	A U	PU-239	.010
22	NON-COMPACTED	DRY	ACTIVE WASTE	37	Chem-Nuclear Cement	A U	RA-226	.192
22	NON-COMPACTED	DRY	ACTIVE WASTE	37	Chem-Nuclear Cement	A U	U-238	228.881
						A U	Total:	229.688
						A	Total:	229.688
						Solidification/Absorption Totals:		229.688
22	NON-COMPACTED	DRY	ACTIVE WASTE	26	Chemisl 3030	A U	KR-85	18.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	26	Chemisl 3030	A U	RA-226	3.000
						A U	Total:	21.000
						A	Total:	21.000
						Solidification/Absorption Totals:		21.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	44	Concrete (2500 psi)	C S	SR-90	25.000
						C S	Total:	25.000
						C	Total:	25.000
						Solidification/Absorption Totals:		25.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	AM-241	.120
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	BA-133	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	CO-57	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	CD-60	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	CS-137	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	RA-226	.002
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	TH-NAT	.022
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	U-NAT	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	04	Floor Dry/Superfine	A U	ZN-65	.001
						A U	Total:	.150
						A	Total:	.150
						Solidification/Absorption Totals:		.150
22	NON-COMPACTED	DRY	ACTIVE WASTE	21	Florco X	A U	H-3	6.417
22	NON-COMPACTED	DRY	ACTIVE WASTE	21	Florco X	A U	S-35	6.513
						A U	Total:	12.930
						A	Total:	12.930
						Solidification/Absorption Totals:		12.930
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None Required	A U	AG-110	86.053
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None Required	A U	AG-110M	59.022
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None Required	A U	AM-241	.110

F-57

Table F-1 (Continued)



F-58

Waste Description				Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	BA-140	.156
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	C-14	271.558
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CA-45	.032
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CE-144	85.542
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CM-242	.246
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CH-243	.022
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-57	.060
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-58	530.082
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-60	4,840.568
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CR-51	28.111
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-134	143.505
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-136	.089
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-137	1,495.283
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	EU-152	8.430
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	EU-155	.023
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FE-55	6,263.995
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FE-59	2.617
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	GD-153	.020
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	H-3	3,119.865
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-125	1.923
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-129	.423
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-131	6.637
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	MN-54	410.433
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-94	7.580
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-95	121.282
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-97	.141
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NI-59	.005
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NI-63	1,155.061
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NP-237	.007
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	P-32	.844
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PH-147	.335
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PO-210	.217
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-236	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-238	.502
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-239	.449
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-240	.501
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-241	94.073
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-242	.008
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RA-226	173.829
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RA-228	6.970
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RH-106	32.858
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-103	54.567
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-106	170.819
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	S-35	1.867
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-124	.232
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-125	6.504
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SN-113	.218

Table F-1 (Continued)

Waste Description				Solidification / Absorption Media			Waste Class	Isotope	Activity (mCi)
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	SR-89	153.635
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	SR-90	43.895
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	SR-92	32.114
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TC-99	84.899
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TC-99M	.006
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TE-125M	.030
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TH-228	6.970
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TH-230	.001
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TH-232	.010
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	TH-NAT	180.286
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	U-233	21.036
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	U-234	244.246
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	U-235	194.340
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	U-238	3.793
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	V-90	10.590
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	ZN-65	96.814
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	ZR-95	30.072
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	A U	ZR-97	.141
							A U	Total:	20,306.553
							C	Total:	20,306.553
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	C-14	84.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	CE-144	151.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	CO-58	159.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	CO-60	3,206.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	CS-134	37.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	CS-137	309.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	FE-55	14,940.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	H-3	434.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	MN-54	95.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	NI-63	3,816.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	PU-238	4.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	PU-239	4.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	PU-241	439.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	RU-106	812.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	SB-125	126.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	SR-90	26.000
22	NON-COMPACTED	DRY	ACTIVE WASTE	9B	None	Required	C S	U-235	.001
							C S	Total:	24,642.001
							C	Total:	24,642.001
								Solidification/Absorption Total:	44,948.554
22	NON-COMPACTED	DRY	ACTIVE WASTE	09	Safe-N-Dri		A U	AM-241	.017
22	NON-COMPACTED	DRY	ACTIVE WASTE	09	Safe-N-Dri		A U	C-14	42.202
22	NON-COMPACTED	DRY	ACTIVE WASTE	09	Safe-N-Dri		A U	CM-242	.029
22	NON-COMPACTED	DRY	ACTIVE WASTE	09	Safe-N-Dri		A U	CM-244	.019
22	NON-COMPACTED	DRY	ACTIVE WASTE	09	Safe-N-Dri		A U	CO-57	.975

Table F-1 (Continued)

F-59



F-60

Waste Description				Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	CO-58	388.040	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	CO-60	152.341	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	CR-51	.228	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	CS-134	13.236	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	CS-137	39.927	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	FE-55	505.534	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	FE-59	4.430	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	H-3	146.013	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	I-129	.064	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	MN-54	96.128	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	NB-95	6.263	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	NI-63	105.079	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	PU-238	.030	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	PU-239	.036	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	PU-241	1.070	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	SB-125	.100	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	SN-113	.065	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	SR-90	.984	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	TC-99	.144	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	TE-125M	.006	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	ZN-65	.519	
22	NON-COMPACTED	DRY	ACTIVE WASTE	09 Safe-N-Dri	A U	ZR-95	.231	
							-----	
							1,503.710	
							A U Totals:	1,503.710
							A Totals:	1,503.710
							Solidification/Absorption Totals:	1,503.710
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	C-14	26.181	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	CO-57	.600	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	CO-60	5.217	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	CS-137	2.100	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	H-3	112.021	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	KR-85	107.000	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	NA-22	.040	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	SR-90	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	TH-232	.196	
22	NON-COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	U-238	1.000	
							-----	
							254.363	
							A U Totals:	254.363
							A Totals:	254.363
							Solidification/Absorption Totals:	254.363
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	AG-110	.039	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	AG-110M	17.893	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	AM-241	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	C-14	21.192	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CE-141	45.985	

Table F-1 (Continued)

F-51

Waste Description				Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CE-144	52.855	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CH-242	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CH-244	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CO-58	320.932	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CO-60	525.808	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CR-51	497.954	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CS-134	215.805	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	CS-137	602.420	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	FE-55	2,069.532	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	FE-59	76.025	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	H-3	19.460	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	I-125	37.430	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	I-129	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	I-131	6.832	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	MN-54	155.161	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	NB-95	133.053	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	NI-63	99.828	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	PU-238	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	PU-239	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	PU-241	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	RU-103	89.177	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	SB-124	909.420	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	SR-89	.008	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	SR-90	.304	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	TC-99	.107	
22	NON-COMPACTED	DRY	ACTIVE WASTE	blank	A U	ZR-95	55.720	
							A U Total:	5,954.996
							A Total:	5,954.996
							Solidification/Absorption Total:	5,954.996
							Waste Description Total:	52,956.391

Table F-1 (Continued)

F-62

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
99 OTHER	blank	A U	H-3	38.862
99 OTHER	blank	A U	KR-85	63,500.100
		A U	Totals	63,538.962
		A U	Totals	63,538.962
		Solidification/Absorption Totals		63,538.962
Waste Description Totals				63,538.962
OTHER				

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	C-14	-009
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	CO-58	-023
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	CO-60	-488
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	FE-55	-448
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	H-3	-662
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	MN-54	-077
26 SOLIDIFIED CHELATES	14 Delaware Custom Media	A U	NI-63	-023
		A U	Totals	1,490
		A	Totals	1,490
		Solidification/Absorption Totals		
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	C-14	75,040
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CO-58	210,600
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CO-60	6,002,007
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CS-51	102,000
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CS-134	14,500
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CS-137	120,000
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	FE-55	34,154,000
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	FE-59	217,800
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	H-3	16,209
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	I-129	-132
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	MN-54	3,287,649
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	NI-63	50,600
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	SR-90	-230
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	TC-99	-133
		A U	Totals	44,230,093
		A	Totals	44,230,093
		Solidification/Absorption Totals		
		Waste Description Totals		44,231,583

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Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Inventory	Activity (MC)
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U C-14		99,536
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U CR-45		3,787
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U CD-109		-008
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U CL-56		.008
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U CO-57		1,000
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U CR-51		4,724
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U H-3		251,114
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U I-125		18,238
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U NB-22		1,012
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U P-32		54,718
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U S-35		86,952
03 SOLIDIFIED LIQUIDS	31 Aqueous	A U Totals		519,042
		A	Solidification/Absorption Totals	519,042
		A	Totals	519,042
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U C-14		7,863
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U CR-45		2,000
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U CO-57		10,270
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U CR-51		-750
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U H-3		577,123
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U I-125		1,051,287
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U I-131		24,500
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U IN-111		-210
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U NB-22		.095
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U P-32		1,920
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U S-35		411,740
03 SOLIDIFIED LIQUIDS	35 Aqueous	A U ZN-65		.152
		A U Totals		2,087,871
		A	Solidification/Absorption Totals	2,087,871
		A	Totals	2,087,871
03 SOLIDIFIED LIQUIDS	03 Cesium	A U C-14		.400
03 SOLIDIFIED LIQUIDS	03 Cesium	A U CR-51		3,830
03 SOLIDIFIED LIQUIDS	03 Cesium	A U H-3		68,860
03 SOLIDIFIED LIQUIDS	03 Cesium	A U I-125		2,820
03 SOLIDIFIED LIQUIDS	03 Cesium	A U I-131		.500
03 SOLIDIFIED LIQUIDS	03 Cesium	A U NB-22		.016
03 SOLIDIFIED LIQUIDS	03 Cesium	A U S-35		21,310
03 SOLIDIFIED LIQUIDS	03 Cesium	A U ZN-65		.050
		A U Totals		97,750
		A	Solidification/Absorption Totals	97,750
		A	Totals	97,750





Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	FE-59	.001
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	H-3	764,860,321
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	H6-203	.001
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	I-123	.002
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	I-125	254,066
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	I-131	6,185
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	MN-54	420,795
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	Na-22	7,471
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	NI-63	1,993,729
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	P-32	54,102
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	P0-210	2,300
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	PU-241	.037
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	RA-226	.002
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	S-85	8,575,736
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	SR-125	38,690
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	SE-75	16,877
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	SR-90	.002
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	TC-99	.087
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	TH-228	.063
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	TH-232	.001
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	TH-NAT	18,560
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	U-234	6,190
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	U-235	.214
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	U-238	.213
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	ZN-65	2,174
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	Total:	807,158,866
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	Total:	807,158,866
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B B	H-3	1,550,000,000
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B B	Total:	1,550,000,000
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B	Total:	1,550,000,000
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	B	Total:	2,357,158,866
Solidification/Absorption				
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	AG-110M	.004
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	C-14	205,910
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	CA-45	28,976
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	CL-36	.741
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	CO-57	.956
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	CO-58	2,382
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	CO-60	47,367
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	CR-51	11,121
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	FE-55	47,367
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	H-3	16,302,229
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	I-125	13,048
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	I-131	.001
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	MN-54	8,048
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	Na-22	.079

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	Ni-63	2,352
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	P-32	28,780
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	Rb-86	500
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	S-35	65,379
03 SOLIDIFIED LIQUIDS	14 Delaware Custom Media	A U	Sc-46	909
		A U	Totals	16,765,279
		A	Totals	16,765,279
	Solidification/Absorption Totals			16,765,279
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	C-14	.011
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Co-57	.002
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Co-58	.178
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Co-60	.100
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	CS-137	.005
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Fe-55	.056
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	I-129	.002
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Nb-95	.060
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Nb-95	.001
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Ni-63	.057
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	Tc-99	.002
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	U-238	203,000
		A U	Totals	203,467
		A	Totals	203,467
	Solidification/Absorption Totals			203,467
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Am-241	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Rb-133	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Co-57	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Co-59	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Co-60	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Cr-51	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	CS-134	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	CS-137	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	EU-154	.002
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Fe-59	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	H-3	43,827
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	I-125	6,595
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Ir-192	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Kr-85	.023
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Mn-54	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Nb-96	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	P-32	.008
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Pu-239	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Pu-240	.001

Table T-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	RA-226	.006
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	S-35	9.977
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	SR-125	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	SN-113	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	SR-90	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	TH-232	.010
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	U-235	.002
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	U-238	.078
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	Y-88	.001
03 SOLIDIFIED LIQUIDS	04 Floor Dry/Superfine	A U	ZN-65	.001
		A U	Totals	60.568
		A U	Totals	60.568
		A U	Totals	60.568
		Solidification/Absorption Totals		
03 SOLIDIFIED LIQUIDS	98 None Required	A U	AG-110M	42.305
03 SOLIDIFIED LIQUIDS	98 None Required	A U	BA-140	.728
03 SOLIDIFIED LIQUIDS	98 None Required	A U	C-14	2.260
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CE-141	.225
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CO-58	188.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CO-60	1,900.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CR-51	489.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CS-134	55.900
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CS-137	66.500
03 SOLIDIFIED LIQUIDS	98 None Required	A U	FE-55	1,170.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	H-3	1.820
03 SOLIDIFIED LIQUIDS	98 None Required	A U	I-129	.002
03 SOLIDIFIED LIQUIDS	98 None Required	A U	I-131	.118
03 SOLIDIFIED LIQUIDS	98 None Required	A U	LA-140	.838
03 SOLIDIFIED LIQUIDS	98 None Required	A U	MA-24	188.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	NI-63	36.100
03 SOLIDIFIED LIQUIDS	98 None Required	A U	NI-63	88.600
03 SOLIDIFIED LIQUIDS	98 None Required	A U	SR-90	.241
03 SOLIDIFIED LIQUIDS	98 None Required	A U	TC-99	.006
03 SOLIDIFIED LIQUIDS	98 None Required	A U	XE-131M	.005
03 SOLIDIFIED LIQUIDS	98 None Required	A U	ZN-65	6,450.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	ZN-65	23.800
03 SOLIDIFIED LIQUIDS	98 None Required	A U	ZR-95	10,622.443
03 SOLIDIFIED LIQUIDS	98 None Required	A U	Totals	10,622.443
		A U	Totals	10,622.443
		Solidification/Absorption Totals		
03 SOLIDIFIED LIQUIDS	02 Speeds Dr-1	A U	BA-133	.591
03 SOLIDIFIED LIQUIDS	02 Speeds Dr-1	A U	C-14	166.861
03 SOLIDIFIED LIQUIDS	02 Speeds Dr-1	A U	CA-45	.086
03 SOLIDIFIED LIQUIDS	02 Speeds Dr-1	A U	CL-36	2.159
03 SOLIDIFIED LIQUIDS	02 Speeds Dr-1	A U	CR-51	25.492

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Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	CS-137	.039
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	H-3	4,100.909
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	I-125	75.141
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	I-131	.002
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	IR-192	.003
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	NA-22	2.634
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	P-32	8.184
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	RA-226	.040
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	S-35	311.882
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	SE-75	.479
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	U-238	.052
03	SOLIDIFIED LIQUIDS	02	Speedi Dri	A U	ZN-65	.011
				A U	Total:	4,692.375
				A	Total:	4,692.375
				Solidification/Absorption Total:		4,692.375
SOLIDIFIED LIQUIDS						Waste Description Total:
						2,394,168.041

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (eCi)
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	C-14	.051
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	CO-60	26.204
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	CS-134	.038
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	CS-137	2.191
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	CS-139	.001
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	FE-55	42.812
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	FE-59	.004
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	H-3	2.618
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	I-129	.543
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	Mn-54	1.841
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	NI-63	16.077
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	SR-89	.108
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	SR-90	.102
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	TC-92	.660
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	U-235	9.683
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	U-DEP	36.600
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	U-Np1	47.290
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	Totals	188.635
27 SOLIDIFIED OIL	35 Aquecet I and II	A U	Totals	188.635
			Solidification/Absorption Totals	
27 SOLIDIFIED OIL	43 Chem-Nuclear Cement	A S	CO-60	.001
27 SOLIDIFIED OIL	43 Chem-Nuclear Cement	A S	CS-137	.001
			Totals	.002
			AM-241	.003
			C-14	1.773
			CM-242	.091
			LM-244	.002
			CO-57	.002
			CO-58	.323
			CO-60	2.844.034
			CS-134	103.114
			CS-137	628.847
			FE-55	352.712
			H-3	39.829
			I-129	.135
			Mn-54	.007
			NI-63	19.508
			PU-238	.004
			PU-239	.002
			PU-241	.034
			SR-89	.001
			SR-90	3.743
			TC-99	.632
			U-235	.170

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	U-DEP	.636
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	ZN-65	202.500
		A U	Totals	4,198.016
		A	Totals	4,198.016
			Solidification/Absorption Totals	4,198.016
27 SOLIDIFIED OIL	15 Envirostone	A U	AM-241	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	C-14	72.531
27 SOLIDIFIED OIL	15 Envirostone	A U	CM-241	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	CM-242	.032
27 SOLIDIFIED OIL	15 Envirostone	A U	CD-60	13.409
27 SOLIDIFIED OIL	15 Envirostone	A U	CS-134	1.271
27 SOLIDIFIED OIL	15 Envirostone	A U	CS-137	7.699
27 SOLIDIFIED OIL	15 Envirostone	A U	FE-55	3.074
27 SOLIDIFIED OIL	15 Envirostone	A U	H-3	223.421
27 SOLIDIFIED OIL	15 Envirostone	A U	I-129	.026
27 SOLIDIFIED OIL	15 Envirostone	A U	IN-54	.621
27 SOLIDIFIED OIL	15 Envirostone	A U	NI-63	.312
27 SOLIDIFIED OIL	15 Envirostone	A U	NP-237	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-238	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-239	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-240	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-241	.121
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-242	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	SR-90	.183
27 SOLIDIFIED OIL	15 Envirostone	A U	TC-99	.982
27 SOLIDIFIED OIL	15 Envirostone	A U	IN-65	4.146
		A U	Totals	327.975
		A	Totals	327.975
			Solidification/Absorption Totals	327.975
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	AM-241	.042
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	AM-243	.040
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	C-14	1.620
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CE-144	.048
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CM-242	.040
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CM-243	.042
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CM-244	.042
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CS-58	.210
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CD-60	1.210
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CS-134	.549
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	CS-137	1.617
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	FE-55	3.186
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	H-3	.380
27 SOLIDIFIED OIL	39 Petrosset I and II	A U	I-129	.118



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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
27 SOLIDIFIED OIL	39 Petroset I and II	A U	KR-85	27.400
27 SOLIDIFIED OIL	39 Petroset I and II	A U	NR-54	.061
27 SOLIDIFIED OIL	39 Petroset I and II	A U	NR-95	.022
27 SOLIDIFIED OIL	39 Petroset I and II	A U	ND-144	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	NI-63	.778
27 SOLIDIFIED OIL	39 Petroset I and II	A U	NP-237	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-238	.042
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-239	.042
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-240	.042
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-241	.069
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-242	.042
27 SOLIDIFIED OIL	39 Petroset I and II	A U	SR-125	.063
27 SOLIDIFIED OIL	39 Petroset I and II	A U	SR-90	.052
27 SOLIDIFIED OIL	39 Petroset I and II	A U	TC-99	.042
27 SOLIDIFIED OIL	39 Petroset I and II	A U	TE-125M	.013
27 SOLIDIFIED OIL	39 Petroset I and II	A U	U-234	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	ZR-95	.010
27 SOLIDIFIED OIL	39 Petroset I and II	A U	Totals	37.760
		A	Totals	37.760
		Solidification/Absorption Totals		37.760
27 SOLIDIFIED OIL	30 Petroset II	A U	C-14	1.855
27 SOLIDIFIED OIL	30 Petroset II	A U	CD-60	.077
27 SOLIDIFIED OIL	30 Petroset II	A U	CS-137	.082
27 SOLIDIFIED OIL	30 Petroset II	A U	FE-55	.031
27 SOLIDIFIED OIL	30 Petroset II	A U	H-3	16.032
27 SOLIDIFIED OIL	30 Petroset II	A U	NI-63	.031
27 SOLIDIFIED OIL	30 Petroset II	A U	SR-89	.031
27 SOLIDIFIED OIL	30 Petroset II	A U	SR-90	.031
27 SOLIDIFIED OIL	30 Petroset II	A U	Totals	18.090
		A	Totals	18.090
		Solidification/Absorption Totals		18.090
Waste Description Totals				4,770.476
SOLIDIFIED OIL				

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	C-14	81.595
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CO-58	80.580
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CO-60	1,074.832
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CR-51	12.376
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CS-137	184
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	FE-55	2,306.871
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	MN-54	1,597.521
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	NI-63	40.722
		A U	Totals	5,194.591
		A	Totals	5,194.591
		Solidification/Absorption Totals		
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	C-14	154.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CO-58	7,180.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CO-60	4,500.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CS-134	32,900.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CS-137	57,300.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	FE-55	4,430.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	H-3	137.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	MN-54	1,980.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	NI-63	12,000.000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	BR-90	125.000
		B S	Totals	120,706.000
		B	Totals	120,706.000
		Solidification/Absorption Totals		
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	C-14	1.056
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	CO-58	2.642
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	CO-60	52.679
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	Fe-55	52.679
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	H-3	53.642
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	MN-54	8.957
09 SOLIDIFIED RESINS	14 Delaware Custom Media	A U	NI-63	2.642
		A U	Totals	154.297
		A	Totals	154.297
		Solidification/Absorption Totals		
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	AM-241	.721
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	C-14	1,013.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CR-242	.418
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	N-244	.926
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	J-60	17,140.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CS-134	35,500.000

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CS-137	146,900.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	FE-55	39,300.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	H-3	263.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	MN-54	921.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	NI-63	34,300.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	PU-238	1.214
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	PU-239	1.341
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	PU-241	70.300
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	SR-90	368.000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	TC-99	.602
09 SOLIDIFIED RESINS		B S	Total:	275,780.522
		B	Total:	275,780.522
			Solidification/Absorption Total:	275,780.522
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	AM-241	.031
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	C-14	7.309
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CM-242	.076
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CM-243	.006
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CM-244	.006
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CO-57	792.733
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CO-58	17,935.125
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CO-60	90,572.381
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CS-134	45,435.650
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CS-137	50,367.809
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	FE-55	4,474.276
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	H-3	954.074
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	I-129	.105
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	MN-54	12,689.699
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	NI-59	488.185
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	NI-63	4,543.092
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	NP-237	.001
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-238	.028
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-239	.108
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-240	.168
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-241	8.764
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-242	.001
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	SR-89	31.852
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	SR-90	143.045
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	TC-99	.514
09 SOLIDIFIED RESINS		B S	Total:	273,444.958
		B	Total:	273,444.958
			Solidification/Absorption Total:	273,444.958
09 SOLIDIFIED RESINS	9B None Required	A U	C-14	.059
09 SOLIDIFIED RESINS	9B None Required	A U	CE-141	.030

Table F-1 (Continued)

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
09 SOLIDIFIED RESINS	98 None Required	A U	CE-144	.066
09 SOLIDIFIED RESINS	96 None Required	A U	CO-58	2,322
09 SOLIDIFIED RESINS	98 None Required	A U	CO-60	386,562
09 SOLIDIFIED RESINS	98 None Required	A U	CR-51	8,342
09 SOLIDIFIED RESINS	98 None Required	A U	CS-134	17,262
09 SOLIDIFIED RESINS	98 None Required	A U	CS-137	52,577
09 SOLIDIFIED RESINS	98 None Required	A U	FE-55	219,621
09 SOLIDIFIED RESINS	98 None Required	A U	H-3	.162
09 SOLIDIFIED RESINS	98 None Required	A U	MN-54	26,979
09 SOLIDIFIED RESINS	98 None Required	A U	NI-59	.214
09 SOLIDIFIED RESINS	98 None Required	A U	NI-63	7,684
09 SOLIDIFIED RESINS	98 None Required	A U	PU-241	.059
09 SOLIDIFIED RESINS	98 None Required	A U	RU-103	1,920
09 SOLIDIFIED RESINS	98 None Required	A U	SR-89	.044
09 SOLIDIFIED RESINS	98 None Required	A U	SR-90	.125
09 SOLIDIFIED RESINS	98 None Required	A U	Zn-65	14,173
		A U	Totals	738,201
		A	Totals	738,201
		Solidification/Absorption Totals		
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	C-14	1,941
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CO-58	51,633
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CO-60	2,021,348
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CR-51	24,615
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CS-134	.601
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CS-137	290,279
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	FE-55	504,891
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	H-3	116,155
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	I-129	.167
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	MN-54	359,739
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	NI-63	33,992
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	PU-239	.042
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	SR-90	.922
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	TC-99	.345
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	Zn-65	29,248
		A U	Totals	3,435,918
		A	Totals	3,435,918
		Solidification/Absorption Totals		
SOLIDIFIED RESINS				679,454,487

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
10 SORBED AQUEOUS LIQUID	31 Aqueaset	A U	C-14	.001
10 SORBED AQUEOUS LIQUID	31 Aqueaset	A U	H-3	3,324.802
10 SORBED AQUEOUS LIQUID	31 Aqueaset	A U	I-125	16.000
10 SORBED AQUEOUS LIQUID	31 Aqueaset	A U	S-35	9.000
10 SORBED AQUEOUS LIQUID	31 Aqueaset	A U	TC-99	.001
		A U	Totals	3,349.854
		A	Totals	3,349.854
		Solidification/Absorption Totals		3,349.854
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	AM-241	.002
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	RA-133	.002
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	C-14	8.188
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CA-45	.347
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CD-109	.017
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CL-36	.128
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CO-57	.005
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CO-60	.002
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CS-134	.002
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	CS-137	.001
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	EU-152	.002
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	H-3	2,929.209
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	I-125	48.835
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	NI-54	.093
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	NI-63	.057
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	NB-22	74.782
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	PO-210	.001
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	S-35	284.781
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	SE-75	.448
10 SORBED AQUEOUS LIQUID	32 Aqueaset II	A U	TN-65	5.000
		A U	Totals	3,351.902
		A	Totals	3,351.902
		Solidification/Absorption Totals		3,351.902
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	AM-241	.001
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	C-14	5.861
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	CA-45	1.213
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	CS-137	.002
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	H-3	63.024
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	I-125	5.390
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	NA-22	.561
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	NI-63	.134
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	P-32	.490
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	FU-239	.001
10 SORBED AQUEOUS LIQUID	03 Celatom	A U	RA-228	.001

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
10 SORBED AQUEOUS LIQUID	03 Cetelem	A U	S-35	1.456
10 SORBED AQUEOUS LIQUID	03 Cetelem	A U	SC-46	.001
10 SORBED AQUEOUS LIQUID	03 Cetelem	A U	SR-90	.002
10 SORBED AQUEOUS LIQUID	03 Cetelem	A U	TH-232	.001
10 SORBED AQUEOUS LIQUID	03 Cetelem	A U	U-235	.001
10 SORBED AQUEOUS LIQUID	03 Cetelem	A U	U-238	.001
Solidification/Absorption Totals				78.140
Solidification/Absorption Totals				78.140
Solidification/Absorption Totals				78.140
10 SORBED AQUEOUS LIQUID	24 Chemsil 30	A U	C-14	1.210
10 SORBED AQUEOUS LIQUID	24 Chemsil 30	A U	H-3	5.510
10 SORBED AQUEOUS LIQUID	24 Chemsil 30	A U	I-125	.010
10 SORBED AQUEOUS LIQUID	24 Chemsil 30	A U	S-35	1.000
Solidification/Absorption Totals				7.730
Solidification/Absorption Totals				7.730
Solidification/Absorption Totals				7.730
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	BA-133	.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	C-14	819.284
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CA-85	30.335
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CE-141	1.108
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CE-144	.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CL-36	2.979
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CO-57	16.415
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CO-60	.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CR-51	416.406
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CS-134	.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	CS-137	.003
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	FE-59	3.913
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	GA-67	.060
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	H-3	3,125.391
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	I-123	.154
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	I-125	1,867.721
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	I-131	.850
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	IN-111	2.007
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	MA-22	24.284
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	MB-95	.320
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	NI-63	.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	P-32	1,690.947
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	PB-210	.006
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	RB-86	70.921
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	RU-103	.560
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	S-35	2,730.994
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	SC-46	.270



Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Inventory	Activity (mCi)
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	SE-75	4.805
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	SN-113	.080
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	SN-119	1.000
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	SP-85	.663
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	TC-998	8.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	TL-201	8.040
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	TL-204	.045
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	U-235	.001
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	U-238	.289
10 SORBED AQUEOUS LIQUID	26 Chemsil 3030	A U	UN-65	.195
		A U	Totals	10,857.412
		A	Totals	10,857.412
			Solidification/Absorption Totals	10,857.412
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	RM-133	.010
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	CD-58	.010
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	CD-60	.030
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	CS-137	.020
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	FE-55	.040
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	H-3	.050
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	NA-22	.010
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	NI-63	.040
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	S-35	.070
10 SORBED AQUEOUS LIQUID	12 Concrete (Structural)	A U	U-233	.100
		A U	Totals	.380
		A	Totals	.380
			Solidification/Absorption Totals	.380
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	C-14	.491
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	CA-45	1.761
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	CL-36	1.000
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	CR-51	.001
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	H-3	30.389
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	I-125	4.005
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	NA-22	.079
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	P-32	.014
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	RB-86	.008
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	S-35	15.025
10 SORBED AQUEOUS LIQUID	14 Delaware Custom Media	A U	TH-232	.600
		A U	Totals	51.375
		A	Totals	51.375
			Solidification/Absorption Totals	51.375
10 SORBED AQUEOUS LIQUID	27 Dicaperl HF200	A U	H-3	75.700

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
10 SORBED AQUEOUS LIQUID	27 Dicapril HF200	A U	I-125	-240
10 SORBED AQUEOUS LIQUID	27 Dicapril HF200	A U	U-238	-050
		A U	Totals	75,990
		A	Totals	75,990
			Solidification/Absorption Totals	75,990
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	AB-110M	-138
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	AM-241	-003
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	AS-73	-010
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	AU-197	-033
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	BA-133	3,636
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	BA-140	-001
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	BR-82	-001
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	C-14	6,709,891
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CA-43	231,332
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CB-109	-106
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CE-137	2,793
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CE-141	-329
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CL-36	15,991
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CD-57	389,455
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CD-58	1,692
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CD-60	50,643
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CR-51	2,310,204
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CS-134	5,305
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CS-137	30,542
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	DY-159	-171
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	EU-152	-061
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	EU-154	-001
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	EU-155	-001
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	FE-55	42,259
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	FE-59	4,221
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	GA-67	-450
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	GA-68	-459
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	GE-68	-167
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	H-3	90,685,352
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	HS-203	-011
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	I-123	-250
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	I-125	15,308,278
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	I-131	59,304
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	IN-111	42,673
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	IN-114	-028
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	K-40	-027
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	MS-54	4,177
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	MO-99	3,752
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	NA-22	24,360
10 SORBED AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	NA-95	-097

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
10	SORBED AQUEOUS LIQUID	A	U NI-59	-033
10	SORBED AQUEOUS LIQUID	A	U NI-63	60.189
10	SORBED AQUEOUS LIQUID	A	U P-32	32,724.757
10	SORBED AQUEOUS LIQUID	A	U P-33	3.311
10	SORBED AQUEOUS LIQUID	A	U PB-210	-589
10	SORBED AQUEOUS LIQUID	A	U PO-209	-001
10	SORBED AQUEOUS LIQUID	A	U PO-210	-001
10	SORBED AQUEOUS LIQUID	A	U PU-241	-108
10	SORBED AQUEOUS LIQUID	A	U RA-226	-033
10	SORBED AQUEOUS LIQUID	A	U RA-228	-002
10	SORBED AQUEOUS LIQUID	A	U RB-86	13.683
10	SORBED AQUEOUS LIQUID	A	U RU-103	-001
10	SORBED AQUEOUS LIQUID	A	U RU-106	-002
10	SORBED AQUEOUS LIQUID	A	U S-35	59,305.620
10	SORBED AQUEOUS LIQUID	A	U SB-125	-162
10	SORBED AQUEOUS LIQUID	A	U SC-46	1.438
10	SORBED AQUEOUS LIQUID	A	U SE-75	2.833
10	SORBED AQUEOUS LIQUID	A	U SN-113	-121
10	SORBED AQUEOUS LIQUID	A	U SN-117	-076
10	SORBED AQUEOUS LIQUID	A	U SR-85	2.153
10	SORBED AQUEOUS LIQUID	A	U SR-89	-002
10	SORBED AQUEOUS LIQUID	A	U SR-90	12.590
10	SORBED AQUEOUS LIQUID	A	U TC-99	32.271
10	SORBED AQUEOUS LIQUID	A	U TC-99M	-250
10	SORBED AQUEOUS LIQUID	A	U TH-228	-216
10	SORBED AQUEOUS LIQUID	A	U TH-229	-002
10	SORBED AQUEOUS LIQUID	A	U TH-232	-702
10	SORBED AQUEOUS LIQUID	A	U TL-201	-250
10	SORBED AQUEOUS LIQUID	A	U TM-170	-010
10	SORBED AQUEOUS LIQUID	A	U U-235	-023
10	SORBED AQUEOUS LIQUID	A	U U-238	-582
10	SORBED AQUEOUS LIQUID	A	U U-NAT	715.940
10	SORBED AQUEOUS LIQUID	A	U Y-88	-001
10	SORBED AQUEOUS LIQUID	A	U Y-90	-411
10	SORBED AQUEOUS LIQUID	A	U ZN-65	1.885
Total:				208,789.168
Total:				208,789.168
Total:				208,789.168
Solidification/Absorption Total:				
05	H1 Dri	A	U C-14	30.000
05	H1 Dri	A	U CA-45	1.500
05	H1 Dri	A	U CL-36	1.500
05	H1 Dri	A	U CR-51	60.000
05	H1 Dri	A	U H-3	9,000.000
05	H1 Dri	A	U I-125	150.000
05	H1 Dri	A	U NA-22	3.000

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
10 SORBED AQUEOUS LIQUID	05 H1 Dri	A U	P-32	15.000
10 SORBED AQUEOUS LIQUID	05 H1 Dri	A U	RB-86	1.500
10 SORBED AQUEOUS LIQUID	05 H1 Dri	A U	S-35	60.000
10 SORBED AQUEOUS LIQUID	05 H1 Dri	A U	U-238	9,322.800
		A U	Totals	9,322.800
		A	Totals	9,322.800
			Solidification/Absorption Totals	
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	C-14	.007
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	H-3	.047
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	I-125	1.446
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	RB-86	.541
10 SORBED AQUEOUS LIQUID	95 Other Sorbent	A U	BR-89	.002
		A U	Totals	2.043
		A	Totals	2.043
			Solidification/Absorption Totals	2.043
10 SORBED AQUEOUS LIQUID	30 Petrosat II	A U	H-3	.680
10 SORBED AQUEOUS LIQUID	30 Petrosat II	A U	P-32	24.064
10 SORBED AQUEOUS LIQUID	30 Petrosat II	A U	S-35	.047
		A U	Totals	24.791
		A	Totals	24.791
			Solidification/Absorption Totals	24.791
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	C-14	22.260
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	CA-45	.170
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	CR-51	2.250
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	H-3	34.335
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	I-125	2.350
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	P-32	1.000
10 SORBED AQUEOUS LIQUID	09 Safe-N-Dri	A U	S-35	.110
		A U	Totals	62.475
		A	Totals	62.475
			Solidification/Absorption Totals	62.475
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	C-14	.150
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	FE-59	.350
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	H-3	.426
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	I-125	4.000
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	P-32	5.230
10 SORBED AQUEOUS LIQUID	08 Safe-T-Sorb	A U	S-35	13.500
		A U	Totals	23.656
		A	Totals	23.656

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Envelope	Activity (pCi)
10	SORBED AQUEOUS LIQUID	A	U C-14	23,456
10	SORBED AQUEOUS LIQUID	A	U CR-51	635
10	SORBED AQUEOUS LIQUID	A	U SR-67	1,490
10	SORBED AQUEOUS LIQUID	A	U H-3	70,000
10	SORBED AQUEOUS LIQUID	A	U I-125	90,942
10	SORBED AQUEOUS LIQUID	A	U I-124	80,000
10	SORBED AQUEOUS LIQUID	A	U I-125	26,000
10	SORBED AQUEOUS LIQUID	A	U I-129	99,093
10	SORBED AQUEOUS LIQUID	A	U IN-111	5,000
10	SORBED AQUEOUS LIQUID	A	U P-32	26,000
10	SORBED AQUEOUS LIQUID	A	U RB-85	6,305
10	SORBED AQUEOUS LIQUID	A	U S-35	33,000
10	SORBED AQUEOUS LIQUID	A	U SE-75	76,660
10	SORBED AQUEOUS LIQUID	A	U TN-63	1,000
10	SORBED AQUEOUS LIQUID	A	U TN-65	1,000
10	SORBED AQUEOUS LIQUID	A	U Totals	52,000
10	SORBED AQUEOUS LIQUID	A	U Totals	517,575
10	SORBED AQUEOUS LIQUID	A	U Totals	517,575
10	SORBED AQUEOUS LIQUID	A	U AB-110M	772
10	SORBED AQUEOUS LIQUID	A	U AU-195	462
10	SORBED AQUEOUS LIQUID	A	U BA-133	704
10	SORBED AQUEOUS LIQUID	A	U C-14	1,270,186
10	SORBED AQUEOUS LIQUID	A	U CA-45	997,030
10	SORBED AQUEOUS LIQUID	A	U CB-109	52,918
10	SORBED AQUEOUS LIQUID	A	U CF-139	120
10	SORBED AQUEOUS LIQUID	A	U CE-141	201
10	SORBED AQUEOUS LIQUID	A	U CL-36	151,979
10	SORBED AQUEOUS LIQUID	A	U CO-57	54,856
10	SORBED AQUEOUS LIQUID	A	U CO-58	1,152
10	SORBED AQUEOUS LIQUID	A	U CR-51	18,565
10	SORBED AQUEOUS LIQUID	A	U CS-134	85,862
10	SORBED AQUEOUS LIQUID	A	U CS-137	2,041
10	SORBED AQUEOUS LIQUID	A	U EU-154	8,458
10	SORBED AQUEOUS LIQUID	A	U EU-155	2,906
10	SORBED AQUEOUS LIQUID	A	U FE-55	98,659
10	SORBED AQUEOUS LIQUID	A	U FE-59	1,792
10	SORBED AQUEOUS LIQUID	A	U FD-151	43,247
10	SORBED AQUEOUS LIQUID	A	U GE-68	19,736
10	SORBED AQUEOUS LIQUID	A	U H-3	35,823,009
10	SORBED AQUEOUS LIQUID	A	U HG-203	639
10	SORBED AQUEOUS LIQUID	A	U I-123	37,000
23	Solid-A-Sorb	A	U C-14	23,456
23	Solid-A-Sorb	A	U CR-51	635
23	Solid-A-Sorb	A	U SR-67	1,490
23	Solid-A-Sorb	A	U H-3	70,000
23	Solid-A-Sorb	A	U I-125	90,942
23	Solid-A-Sorb	A	U I-124	80,000
23	Solid-A-Sorb	A	U I-125	26,000
23	Solid-A-Sorb	A	U I-129	99,093
23	Solid-A-Sorb	A	U IN-111	5,000
23	Solid-A-Sorb	A	U P-32	26,000
23	Solid-A-Sorb	A	U RB-85	6,305
23	Solid-A-Sorb	A	U S-35	33,000
23	Solid-A-Sorb	A	U SE-75	76,660
23	Solid-A-Sorb	A	U TN-63	1,000
23	Solid-A-Sorb	A	U TN-65	1,000
23	Solid-A-Sorb	A	U Totals	52,000
23	Solid-A-Sorb	A	U Totals	517,575
23	Solid-A-Sorb	A	U Totals	517,575
02	Speedi Dr-1	A	U AB-110M	772
02	Speedi Dr-1	A	U AU-195	462
02	Speedi Dr-1	A	U BA-133	704
02	Speedi Dr-1	A	U C-14	1,270,186
02	Speedi Dr-1	A	U CA-45	997,030
02	Speedi Dr-1	A	U CB-109	52,918
02	Speedi Dr-1	A	U CF-139	120
02	Speedi Dr-1	A	U CE-141	201
02	Speedi Dr-1	A	U CL-36	151,979
02	Speedi Dr-1	A	U CO-57	54,856
02	Speedi Dr-1	A	U CO-58	1,152
02	Speedi Dr-1	A	U CR-51	18,565
02	Speedi Dr-1	A	U CS-134	85,862
02	Speedi Dr-1	A	U CS-137	2,041
02	Speedi Dr-1	A	U EU-154	8,458
02	Speedi Dr-1	A	U EU-155	2,906
02	Speedi Dr-1	A	U FE-55	98,659
02	Speedi Dr-1	A	U FE-59	1,792
02	Speedi Dr-1	A	U FD-151	43,247
02	Speedi Dr-1	A	U GE-68	19,736
02	Speedi Dr-1	A	U H-3	35,823,009
02	Speedi Dr-1	A	U HG-203	639
02	Speedi Dr-1	A	U I-123	37,000

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
10	SORBED AQUEOUS LIQUID	A U	I-125	911.269
10	SORBED AQUEOUS LIQUID	A U	I-131	.500
10	SORBED AQUEOUS LIQUID	A U	IN-111	7.900
10	SORBED AQUEOUS LIQUID	A U	IN-114	.003
10	SORBED AQUEOUS LIQUID	A U	IN-114M	.017
10	SORBED AQUEOUS LIQUID	A U	KR-85	2.960
10	SORBED AQUEOUS LIQUID	A U	MN-54	5.017
10	SORBED AQUEOUS LIQUID	A U	NA-22	198.834
10	SORBED AQUEOUS LIQUID	A U	NB-95	.282
10	SORBED AQUEOUS LIQUID	A U	NI-63	1,537.267
10	SORBED AQUEOUS LIQUID	A U	P-32	192.682
10	SORBED AQUEOUS LIQUID	A U	P-33	.100
10	SORBED AQUEOUS LIQUID	A U	PM-147	23.485
10	SORBED AQUEOUS LIQUID	A U	RB-86	.373
10	SORBED AQUEOUS LIQUID	A U	RU-103	.070
10	SORBED AQUEOUS LIQUID	A U	S-35	134,005.707
10	SORBED AQUEOUS LIQUID	A U	SB-125	.600
10	SORBED AQUEOUS LIQUID	A U	SC-46	1.721
10	SORBED AQUEOUS LIQUID	A U	SE-75	5.319
10	SORBED AQUEOUS LIQUID	A U	SN-113	13.982
10	SORBED AQUEOUS LIQUID	A U	SN-119M	4.532
10	SORBED AQUEOUS LIQUID	A U	SR-85	.625
10	SORBED AQUEOUS LIQUID	A U	SR-90	.602
10	SORBED AQUEOUS LIQUID	A U	TC-99	42.130
10	SORBED AQUEOUS LIQUID	A U	TC-99M	.001
10	SORBED AQUEOUS LIQUID	A U	TL-201	.200
10	SORBED AQUEOUS LIQUID	A U	U-238	.200
10	SORBED AQUEOUS LIQUID	A U	Y-88	.201
10	SORBED AQUEOUS LIQUID	A U	ZN-65	3.811
10	SORBED AQUEOUS LIQUID	A U	ZR-95	.949
10	SORBED AQUEOUS LIQUID	A U	Totals	176,509.771
10	SORBED AQUEOUS LIQUID	A U	Totals	176,509.771
10	SORBED AQUEOUS LIQUID	A U	Solidification/Absorption Totals	176,509.771

Waste Description Totals: 413,025.062

SORBED AQUEOUS LIQUID



Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Volume	Activity (mCi)
11 SORBED NON-AQUEOUS LIQUID	26 Chemsl 3030	A U	CO-58	.017
		A U	Totals	.017
		A	Totals	.017
		Solidification/Absorption Totals		
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CM-242	.003
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CO-60	4.635
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CS-134	.034
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CS-137	.134
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	FE-35	5.161
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	I-125	.034
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	MN-54	.003
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	NI-63	.090
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	P-32	4.836
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	PY-241	.003
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	SB-125	.078
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	SR-90	.003
		A U	Totals	13.026
		A	Totals	13.026
		Solidification/Absorption Totals		
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	AG-110M	.244
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	AM-241	.016
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	C-14	1.460
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CE-144	.068
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CM-242	.001
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CM-243	.002
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CM-244	.002
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CO-57	.020
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CO-58	2.210
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CO-60	300.000
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CS-134	3.430
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CS-137	121.000
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	FE-35	75.400
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	H-3	6.090
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	MN-54	.103
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	NI-59	4.950
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	NI-63	309.000
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-238	.017
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-239	.009
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-240	.009
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-241	.703
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	SR-90	.119
		A S	Totals	834.849

Table F-1 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
		A	Totals	834.849
		Solidification/Absorption Totals		834.849
11 SORBED NON-AQUEOUS LIQUID	02 Speed: Dr1	A U	CA-45	5.127
11 SORBED NON-AQUEOUS LIQUID	02 Speed: Dr1	A U	SR-90	5.000
		A U	Totals	5.127
		Solidification/Absorption Totals		5.127
Waste Description Totals				833.019
GRAND TOTALS				99,061,766.869

Table F-2. Richland 1989 Utility Waste Radionuclide Distribution by Solidification and Sorbent Media

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
25 ACTIVATED REACTOR HARDWARE	None Required	C	AM-241	002
25 ACTIVATED REACTOR HARDWARE	None Required	C	C-14	1,500,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	CM-242	020
25 ACTIVATED REACTOR HARDWARE	None Required	C	CM-243	002
26 ACTIVATED REACTOR HARDWARE	None Required	C	CS-137	7,165,929,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	CS-137	428,280,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	CS-137	13,124,680,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	H-3	145,350,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	MB-54	341,140,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	MB-94	13,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	MI-59	6,100,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	MI-63	950,440,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	PO-210	002
25 ACTIVATED REACTOR HARDWARE	None Required	C	PO-210	336
25 ACTIVATED REACTOR HARDWARE	None Required	C	TC-99	13,000
25 ACTIVATED REACTOR HARDWARE	None Required	C	U-235	001
		C	Total:	22,214,436,160
		C	Total:	22,214,436,160
	Solidification/Absorption Total:			22,214,436,160
ACTIVATED REACTOR HARDWARE			Waste Description Total:	22,214,436,160

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	AG-110M	3.370
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	AM-241	842
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	C-14	058
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CE-141	37.600
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CE-144	101.770
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CM-242	8.408
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CM-243	866
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CO-57	4.656
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CO-58	571.560
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CO-60	3,997.000
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CR-51	219.000
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CS-134	110.790
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	CS-137	522.200
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	FE-55	8,199.000
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	FE-59	20.500
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	H-3	230.160
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	I-129	413
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	MN-54	221.500
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	NB-90	36.300
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	NI-63	1,611.400
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PI-238	1.290
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PI-239	369
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PD-241	67.610
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	PI-242	602
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	RI-103	29.300
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	RI-106	42.670
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SB-124	6.490
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SB-125	15.210
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SB-89	4.150
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	SB-90	5.914
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	TC-99	938
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	U-234	001
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	U-235	001
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	U-238	001
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	ZN-65	2.280
23 CARTRIDGE-TYPE FILTER MEDIA	04 Floor Dry/Superfine	C S	ZR-95	22.700
23 CARTRIDGE-TYPE FILTER MEDIA		C S	Total:	16,197.520
		C	Total:	16,197.520
			Solidification/Absorption Total:	16,197.520
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	AG-110M	7.905
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	AM-241	054
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	BE-7	292.490
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	C-14	669.098
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CE-141	15.448

Table F-2 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CE-144	67.534
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CM-242	1.460
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CM-243	0.48
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CM-244	0.48
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CU-57	62.890
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CU-58	13,613.800
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CU-60	11,130.646
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	FR-53	5,383.822
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CS-134	224.321
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	CS-137	316.810
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	RE-55	81,310.705
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	RE-59	836.302
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	H-3	176.887
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	T-129	135
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	MO-54	1,184.124
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	MO-95	1,601.429
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	NI-59	50.896
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	NI-63	4,301.978
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PO-238	0.72
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PO-239	0.83
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PO-240	0.83
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PO-241	15.091
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	PO-242	0.91
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	MO-103	11.738
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	MO-106	9.767
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SR-125	86.804
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SR-113	20.320
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SR-89	8.194
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	SR-90	1.610
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	TC-99	107
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	ZN-65	21.975
23 CARTRIDGE-TYPE FILTER MEDIA	47 LN Technologies Cement	C S	ZR-75	965.093
		C S	Total:	122,388.749
		C	Total:	122,388.749
			Solidification/Absorption Total:	122,388.749
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	AG-110M	0.54
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	AM-241	0.15
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	BE-7	1.508
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	C-14	618.608
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CE-144	3.167
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CM-242	0.62
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CM-243	0.33
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CM-244	0.03
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CU-57	1.92
23 CARTRIDGE-TYPE FILTER MEDIA	98 None Required	A U	CU-58	93.777

Table F-2 (Continued)

Waste Description		Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	CO-60	4,690,006
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	CR-51	14,822
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	CS-134	88,405
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	CS-137	293,350
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	FE-55	8,968,300
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	FE-59	040
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	H-3	992,606
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	I-129	128
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	MN-54	96,759
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	NS-95	991
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	NI-59	097
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	NI-63	865,730
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	NI-65	762,185
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	NF-237	004
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	PU-238	740
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	PU-239	106
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	PU-240	091
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	PU-241	31,063
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	PU-242	003
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	RU-106	5,630
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	SB-125	10,988
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	SR-89	001
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	SK-90	41,129
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	TC-99	075
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	TC-99M	091
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	U-234	003
28	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	ZN-65	190,580
23	CARTRIDGE-TYPE FILTER MEDIA	98	None Required	A U	ZR-95	465
A U Total:						17,771,807
A Total:						17,771,807
Solidification/Absorption Total:						17,771,807
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	AG-110M	031
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	CO-58	018
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	CO-60	1,207
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	CR-51	011
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	CS-137	073
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	FE-55	2,394
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	I-129	001
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	MN-54	076
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	NI-63	012
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	SR-90	010
23	CARTRIDGE-TYPE FILTER MEDIA	96	Other Solidification Media	A U	Total:	3,743
A Total:						3,743



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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
Solidification/Absorption Total:				3.743
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	AM-241	.030
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	FE-7	1,000.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	C-14	39.800
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CM-242	.051
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CM-244	.033
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CO-58	4,950.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CO-60	502.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CR-51	497.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	CS-137	10.100
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	FE-55	6,920.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	FE-59	387.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	H-3	82.700
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	I-129	.001
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	MN-54	569.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	NB-95	217.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	NI-63	145.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	PU-238	.052
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	PU-239	.062
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	PU-241	1.850
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	SN-113	1,880.000
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	SR-90	.276
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	TC-99	.035
23 CARTRIDGE-TYPE FILTER MEDIA	09 Safe-N-Dri	A U	ZR-95	144.000
A U Total:				18,165.990
A Total:				18,165.990
Solidification/Absorption Total:				18,165.990
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	C-14	104.200
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	CO-58	20,980.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	CO-60	22,490.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	CR-51	2,122.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	FE-55	45,400.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	FE-59	1,409.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	H-3	.176
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	MN-54	2,880.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	NB-95	4,720.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	NI-63	2,680.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	SR-124	429.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	B S	ZR-95	3,000.000
B S Total:				106,214.376
B Total:				214.376
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	AG-110M	203.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	C-14	777.000

Table F-2 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CO-58	980.300
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CO-60	8,203.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CS-134	484.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	CS-137	1,940.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	FE-55	21,660.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	H-3	125.700
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	MN-54	743.600
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	NI-63	1,385.000
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	PU-239	248
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	PU-240	247
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	RU-106	802.300
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	SB-124	636.700
23 CARTRIDGE-TYPE FILTER MEDIA	blank	C S	SR-90	5.825
		C S	Total:	40,946.920
		C	Total:	40,946.920
		Solidification/Absorption Total:		147,161.296
CARTRIDGE-TYPE FILTER MEDIA				Waste Description Total: 321,689.105

Table F-2 (Continued)

Waste Description				Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	AG-110	828.976
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	AG-110M	199.317
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	AM-241	1.040
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PA-140	38.193
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	BR-7	4.232
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	C-14	1,503.392
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CE-141	6.836
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CE-144	229.903
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CM-242	1.817
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CM-243	.854
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CM-244	.010
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-57	16.126
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-58	3,042.984
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-60	7,755.554
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CR-51	491.379
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-134	883.081
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-136	6.162
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-137	5,668.871
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	ED-155	.430
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FE-55	14,040.494
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FE-59	27.843
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	H-3	1,191.468
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-129	7.500
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-131	42.797
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-133	10.447
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	LA-140	45.019
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	MN-54	1,042.528
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	MO-99	11.314
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-94	2.675
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-95	1,032.747
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-97	39.003
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NI-59	2.117
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NI-63	2,102.836
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NF-237	.323
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FM-147	3.879
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-238	.971
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-239	1.212
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-240	.058
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-241	85.709
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-242	416
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-106	132.420
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-103	202.903
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-106	6.960
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-122	3.448
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-124	65.134
21	COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-125	165.751

Table F-2 (Continued)

Waste Description				Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	SN-113	83 410	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	SR-89	78 648	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	SR-90	71 628	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	SR-92	17 958	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	TC-99	358 609	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	TC-99M	.005	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	TE-125M	.290	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	U-234	.007	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	U-235	.007	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	U-238	.007	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	ZN-65	517 658	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	ZR-90	.499	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	ZR-95	444 468	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	A U	ZR-97	39 001	
							A U Total:	42,541,518
							A Total:	42,541,518
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	AM-241	2.802	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	C-14	.622	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	CE-144	1,455,400	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	CM-242	.001	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	CO-60	709,140	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	CS-134	14,175,000	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	CS-137	689,280,000	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	KU-155	26,221	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	FE-55	3,050,500	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	H-3	4,167	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	I-129	3,045	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	NI-63	161,500	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	PM 147	304,000	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	FU-238	1,281	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	FU-239	14,842	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	FU-240	3,944	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	FU-241	167,440	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	RU-106	5,429,500	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	SB-125	4,430,100	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	SR-90	314,840,000	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	TC-99	216,940	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	TE-125M	1,019,290	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	U-234	.152	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	U-235	.009	
21	COMPACTED	DRY	ACTIVE WASTE	98 None Required	C S	U-238	.316	
							C S Total:	1,068,295,522
							C Total:	1,068,295,522
							Solidification/Absorption Total:	1,110,837,040
21	COMPACTED	DRY	ACTIVE WASTE	02 Speedi Dri	A U	AM-241	.004	

Table F-2 (Continued)

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Waste Description				Solidification / Absorption Media		Waste Class	Isotope	Activity (mCi)
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	C-14		674	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CM-242		416	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CM-244		080	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CO-57		1,624	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CO-58		17,178	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CO-60		273,500	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CS-134		31,530	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	CS-137		182,260	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	H-3		20,679	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	I-129		007	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	MN-54		30,330	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	NI-63		69,400	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	PU-238		016	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	PU-241		031	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	PU-242		034	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	SR-90		458	
21	COMPACTED DRY ACTIVE WASTE	02	Speedi Dri	A U	TC-99		950	
							A U Total:	628,571
							A Total:	628,571
							Solidification/Absorption Total:	628,571
21	COMPACTED DRY ACTIVE WASTE	blank		A U	AI-110M		108,323	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	C-14		82,824	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CE-141		15,378	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CE-144		75,648	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CO-58		1,389,676	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CO-60		1,781,872	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CR-51		2,343,968	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CS-134		1,052,919	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	CS-137		2,727,555	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	FE-55		2,967,974	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	FE-59		230,213	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	H-3		122,505	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	I-129		041	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	I-131		107,528	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	MN-54		1,141,113	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	NB-95		484,732	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	NI-63		421,670	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	RH-106		051	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	RU-103		30,999	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	SB-124		2,766,744	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	SR-90		1,441	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	TC-99		659	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	ZN-65		247,323	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	ZR-95		89,575	
21	COMPACTED DRY ACTIVE WASTE	blank		A U	Total:		18,193,731	

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
		A	Total:	18.193.731
		Solidification/Absorption	Total:	18.193.731
COMPACTED DRY ACTIVE WASTE			Waste Description Total:	1.129.659.342

Table F-2 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	98 None Required	A U	AC-110M	1,758,663
08 DEWATERED RESINS	98 None Required	A U	AM-241	878
08 DEWATERED RESINS	98 None Required	A U	SA-140	91,895
08 DEWATERED RESINS	98 None Required	A U	C-14	324,647
08 DEWATERED RESINS	98 None Required	A U	CE-141	2,741
08 DEWATERED RESINS	98 None Required	A U	CE-144	36,298
08 DEWATERED RESINS	98 None Required	A U	CM-242	1,300
08 DEWATERED RESINS	98 None Required	A U	CM-243	899
08 DEWATERED RESINS	98 None Required	A U	CM-244	638
08 DEWATERED RESINS	98 None Required	A U	CO-57	25,268
08 DEWATERED RESINS	98 None Required	A U	CO-58	21,342,056
08 DEWATERED RESINS	98 None Required	A U	CO-60	76,746,517
08 DEWATERED RESINS	98 None Required	A U	CR-51	55,799,071
08 DEWATERED RESINS	98 None Required	A U	CS-134	19,062,670
08 DEWATERED RESINS	98 None Required	A U	CS-136	2,745
08 DEWATERED RESINS	98 None Required	A U	CS-137	12,399,813
08 DEWATERED RESINS	98 None Required	A U	EU-154	532
08 DEWATERED RESINS	98 None Required	A U	EU-155	5,053
08 DEWATERED RESINS	98 None Required	A U	FE-55	26,393,565
08 DEWATERED RESINS	98 None Required	A U	FE-59	415,685
08 DEWATERED RESINS	98 None Required	A U	H-3	9,448,713
08 DEWATERED RESINS	98 None Required	A U	HF-181	806
08 DEWATERED RESINS	98 None Required	A U	I-129	23,462
08 DEWATERED RESINS	98 None Required	A U	I-131	88,123
08 DEWATERED RESINS	98 None Required	A U	LA-140	102,925
08 DEWATERED RESINS	98 None Required	A U	MB-54	11,975,367
08 DEWATERED RESINS	98 None Required	A U	NB-95	12,109,850
08 DEWATERED RESINS	98 None Required	A U	NI-59	5,265
08 DEWATERED RESINS	98 None Required	A U	NI-63	3,936,167
08 DEWATERED RESINS	98 None Required	A U	NP-237	692
08 DEWATERED RESINS	98 None Required	A U	PM-147	1,773,575
08 DEWATERED RESINS	98 None Required	A U	PU-238	1,416
08 DEWATERED RESINS	98 None Required	A U	PU-239	3,981
08 DEWATERED RESINS	98 None Required	A U	PU-240	1,553
08 DEWATERED RESINS	98 None Required	A U	PU-241	187,765
08 DEWATERED RESINS	98 None Required	A U	PU-242	622
08 DEWATERED RESINS	98 None Required	A U	RU-106	222,692
08 DEWATERED RESINS	98 None Required	A U	SB-124	113,307
08 DEWATERED RESINS	98 None Required	A U	SB-125	3,778,806
08 DEWATERED RESINS	98 None Required	A U	SN-113	425,531
08 DEWATERED RESINS	98 None Required	A U	SR-89	6,443
08 DEWATERED RESINS	98 None Required	A U	SR-90	1,178,420
08 DEWATERED RESINS	98 None Required	A U	TC-99	30,138
08 DEWATERED RESINS	98 None Required	A U	TE-125M	1,193,851
08 DEWATERED RESINS	98 None Required	A U	U-233	613
08 DEWATERED RESINS	98 None Required	A U	U-234	641
08 DEWATERED RESINS	98 None Required			

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	98 None Required	A U	U-235	.007
08 DEWATERED RESINS	98 None Required	A U	U-238	.025
08 DEWATERED RESINS	98 None Required	A U	XE-131M	1.760
08 DEWATERED RESINS	98 None Required	A U	ZN-65	189,401.160
08 DEWATERED RESINS	98 None Required	A U	ZR-95	7,915.907
		A U	Total:	449,336.687
		A	Total:	449,336.687
08 DEWATERED RESINS	98 None Required	B S	BA-140	295.000
08 DEWATERED RESINS	98 None Required	B S	C-14	347.783
08 DEWATERED RESINS	98 None Required	B S	CR-144	18.500
08 DEWATERED RESINS	98 None Required	B S	CM-242	35.530
08 DEWATERED RESINS	98 None Required	B S	CO-57	859.700
08 DEWATERED RESINS	98 None Required	B S	CO-58	105,081.719
08 DEWATERED RESINS	98 None Required	B S	CO-60	163,446.000
08 DEWATERED RESINS	98 None Required	B S	CR-51	25,000.000
08 DEWATERED RESINS	98 None Required	B S	CS-134	591,470.000
08 DEWATERED RESINS	98 None Required	B S	CS-136	265.000
08 DEWATERED RESINS	98 None Required	B S	CS-137	1,076,900.000
08 DEWATERED RESINS	98 None Required	B S	FE-55	129,680.000
08 DEWATERED RESINS	98 None Required	B S	FE-59	256.000
08 DEWATERED RESINS	98 None Required	B S	H-3	931.140
08 DEWATERED RESINS	98 None Required	B S	I-129	3.122
08 DEWATERED RESINS	98 None Required	B S	I-131	1,230.000
08 DEWATERED RESINS	98 None Required	B S	LA-140	341.000
08 DEWATERED RESINS	98 None Required	B S	MN-54	30,233.000
08 DEWATERED RESINS	98 None Required	B S	NI-59	9.788.750
08 DEWATERED RESINS	98 None Required	B S	NI-59	947.000
08 DEWATERED RESINS	98 None Required	B S	NI-63	128,620.000
08 DEWATERED RESINS	98 None Required	B S	NP-239	12.900
08 DEWATERED RESINS	98 None Required	B S	PU-239	.001
08 DEWATERED RESINS	98 None Required	B S	PU-241	400.920
08 DEWATERED RESINS	98 None Required	B S	SB-114	835.350
08 DEWATERED RESINS	98 None Required	B S	SB-125	4,641.200
08 DEWATERED RESINS	98 None Required	B S	SN-113	236.000
08 DEWATERED RESINS	98 None Required	B S	SR-89	979.400
08 DEWATERED RESINS	98 None Required	B S	SR-90	2,829.260
08 DEWATERED RESINS	98 None Required	B S	TC-99	3.909
08 DEWATERED RESINS	98 None Required	B S	XE-131M	20.690
08 DEWATERED RESINS	98 None Required	B S	ZN-65	61,517.100
08 DEWATERED RESINS	98 None Required	B S	ZR-95	5,964.000
		B S	Total:	2,343,190.875
		B	Total:	2,343,190.875
08 DEWATERED RESINS	98 None Required	C S	AG-110M	5,150.200
08 DEWATERED RESINS	98 None Required	C S	AM-241	18.752
08 DEWATERED RESINS	98 None Required	C S	C-14	251.708
08 DEWATERED RESINS	98 None Required	C S	CE-144	12,840.000
08 DEWATERED RESINS	98 None Required	C S	CM-242	.006

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Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	98 None Required	C S	CO-57	1,434,000
08 DEWATERED RESINS	98 None Required	C S	CO-58	83,666,077
08 DEWATERED RESINS	98 None Required	C S	CO-60	200,510,300
08 DEWATERED RESINS	98 None Required	C S	CS-134	159,706,000
08 DEWATERED RESINS	98 None Required	C S	CS-137	2,476,935,500
08 DEWATERED RESINS	98 None Required	C S	CS-144	2,930
08 DEWATERED RESINS	98 None Required	C S	FE-55	105,937,600
08 DEWATERED RESINS	98 None Required	C S	H-3	87,406
08 DEWATERED RESINS	98 None Required	C S	I-129	7,426
08 DEWATERED RESINS	98 None Required	C S	MN-54	6,588,200
08 DEWATERED RESINS	98 None Required	C S	NB-95	78,400
08 DEWATERED RESINS	98 None Required	C S	NI-59	391,000
08 DEWATERED RESINS	98 None Required	C S	NI-63	225,838,600
08 DEWATERED RESINS	98 None Required	C S	FM-147	656,572,000
08 DEWATERED RESINS	98 None Required	C S	FU-238	24,625
08 DEWATERED RESINS	98 None Required	C S	FU-239	67,928
08 DEWATERED RESINS	98 None Required	C S	FU-240	22,438
08 DEWATERED RESINS	98 None Required	C S	FU-241	1,703,160
08 DEWATERED RESINS	98 None Required	C S	KU-106	17,792,000
08 DEWATERED RESINS	98 None Required	C S	SB-125	10,406,660
08 DEWATERED RESINS	98 None Required	C S	SR-89	274,101
08 DEWATERED RESINS	98 None Required	C S	SR-90	4,827,170,000
08 DEWATERED RESINS	98 None Required	C S	TC-99	1,468,907
08 DEWATERED RESINS	98 None Required	C S	TR-125M	1,922,060
08 DEWATERED RESINS	98 None Required	C S	U-234	135
08 DEWATERED RESINS	98 None Required	C S	U-235	926
08 DEWATERED RESINS	98 None Required	C S	U-238	184
08 DEWATERED RESINS	98 None Required	C S	ZR-95	14,200
08 DEWATERED RESINS		C S	Total:	8,796,882,529
		C	Total:	8,796,882,529
			Solidification/Absorption Total:	11,589,410,091
08 DEWATERED RESINS	09 Safe-N-Dri	A U	AM-241	097
08 DEWATERED RESINS	09 Safe-N-Dri	A U	BE-7	3,870
08 DEWATERED RESINS	09 Safe-N-Dri	A U	C-14	74,430
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CM-242	030
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CM-244	022
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CO-57	7,680
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CO-58	2,896,000
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CO-60	352,900
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CR-51	14,012
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CS-134	128,630
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CS-136	2,090
08 DEWATERED RESINS	09 Safe-N-Dri	A U	CS-137	283,650
08 DEWATERED RESINS	09 Safe-N-Dri	A U	FE-55	1,501,000
08 DEWATERED RESINS	09 Safe-N-Dri	A U	FE-59	19,130

Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	09 Safe-N-Dri	A U	H-3	246.600
08 DEWATERED RESINS	09 Safe-N-Dri	A U	I-129	.023
08 DEWATERED RESINS	09 Safe-N-Dri	A U	I-131	2.480
08 DEWATERED RESINS	09 Safe-N-Dri	A U	LA-140	.026
08 DEWATERED RESINS	09 Safe-N-Dri	A U	MN-54	464.900
08 DEWATERED RESINS	09 Safe-N-Dri	A U	NR-95	32.440
08 DEWATERED RESINS	09 Safe-N-Dri	A U	NI-63	464.700
08 DEWATERED RESINS	09 Safe-N-Dri	A U	PU-238	.034
08 DEWATERED RESINS	09 Safe-N-Dri	A U	PU-239	.041
08 DEWATERED RESINS	09 Safe-N-Dri	A U	PU-241	1.201
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SR-124	.147
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SR-125	.932
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SN-113	1.322
08 DEWATERED RESINS	09 Safe-N-Dri	A U	SR-90	7.637
08 DEWATERED RESINS	09 Safe-N-Dri	A U	TC-99	.963
08 DEWATERED RESINS	09 Safe-N-Dri	A U	TE-125M	.113
08 DEWATERED RESINS	09 Safe-N-Dri	A U	ZN-65	3.628
08 DEWATERED RESINS	09 Safe-N-Dri	A U	ZR-95	12.368
		A U	Total:	6,525.296
		A	Total:	6,525.296
		Solidification/Absorption Total:		6,525.296
08 DEWATERED RESINS	blank	A U	AG-110M	5,502.520
08 DEWATERED RESINS	blank	A U	BA-140	34.360
08 DEWATERED RESINS	blank	A U	C-14	3,461.613
08 DEWATERED RESINS	blank	A U	CE-144	911.057
08 DEWATERED RESINS	blank	A U	CM-242	.202
08 DEWATERED RESINS	blank	A U	CO-58	17,120.808
08 DEWATERED RESINS	blank	A U	CO-60	166,021.139
08 DEWATERED RESINS	blank	A U	CR-51	19,082.530
08 DEWATERED RESINS	blank	A U	CS-134	7,541.595
08 DEWATERED RESINS	blank	A U	CS-137	11,103.214
08 DEWATERED RESINS	blank	A U	FE-55	99,276.173
08 DEWATERED RESINS	blank	A U	FE-59	6,035.820
08 DEWATERED RESINS	blank	A U	H-3	985.644
08 DEWATERED RESINS	blank	A U	I-129	.001
08 DEWATERED RESINS	blank	A U	I-131	456.210
08 DEWATERED RESINS	blank	A U	LA-140	34.360
08 DEWATERED RESINS	blank	A U	MN-54	83,909.891
08 DEWATERED RESINS	blank	A U	NR-95	30,620.000
08 DEWATERED RESINS	blank	A U	NI-59	3.830
08 DEWATERED RESINS	blank	A U	NI-63	4,671.133
08 DEWATERED RESINS	blank	A U	PU-239	.145
08 DEWATERED RESINS	blank	A U	PU-240	.062
08 DEWATERED RESINS	blank	A U	PU-241	24.925
08 DEWATERED RESINS	blank	A U	RU-106	17.750

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Table F-2 (Continued)

F-100

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
08 DEWATERED RESINS	blank	A U	SB-124	2,333.967
08 DEWATERED RESINS	blank	A U	SR-125	30.377
08 DEWATERED RESINS	blank	A U	SR-90	30.753
08 DEWATERED RESINS	blank	A U	TC-99	2.790
08 DEWATERED RESINS	blank	A U	ZN-65	3,390.600
		A U	Total:	462,603.469
		A	Total:	462,603.469
08 DEWATERED RESINS	blank	B S	AM-241	056
08 DEWATERED RESINS	blank	B S	C-14	142.200
08 DEWATERED RESINS	blank	B S	CE-141	2.270
08 DEWATERED RESINS	blank	B S	CE-144	5.700
08 DEWATERED RESINS	blank	B S	CM-242	106
08 DEWATERED RESINS	blank	B S	CM-243	022
08 DEWATERED RESINS	blank	B S	CM-244	022
08 DEWATERED RESINS	blank	B S	CO-57	342
08 DEWATERED RESINS	blank	B S	CO-58	16,457.000
08 DEWATERED RESINS	blank	B S	CO-60	78,830.600
08 DEWATERED RESINS	blank	B S	CR-51	3,140.000
08 DEWATERED RESINS	blank	B S	CS-134	90,148.000
08 DEWATERED RESINS	blank	B S	CS-137	132,450.000
08 DEWATERED RESINS	blank	B S	FE-55	45,784.000
08 DEWATERED RESINS	blank	B S	FE-59	869.000
08 DEWATERED RESINS	blank	B S	H-3	789.870
08 DEWATERED RESINS	blank	B S	I-129	117
08 DEWATERED RESINS	blank	B S	MN-54	21,300.000
08 DEWATERED RESINS	blank	B S	NI-59	22.000
08 DEWATERED RESINS	blank	B S	NI-63	8,215.800
08 DEWATERED RESINS	blank	B S	NP-237	002
08 DEWATERED RESINS	blank	B S	PU-238	1.038
08 DEWATERED RESINS	blank	B S	PU-239	2.431
08 DEWATERED RESINS	blank	B S	PU-240	260
08 DEWATERED RESINS	blank	B S	PU-241	116.200
08 DEWATERED RESINS	blank	B S	PU-242	002
08 DEWATERED RESINS	blank	B S	SB-124	47,485.000
08 DEWATERED RESINS	blank	B S	SB-125	2,428.000
08 DEWATERED RESINS	blank	B S	SR-89	49.400
08 DEWATERED RESINS	blank	B S	SR-90	472.310
08 DEWATERED RESINS	blank	B S	TC-99	504
08 DEWATERED RESINS	blank	B S	ZN-65	272,000.000
		B S	Total:	720,712.352
		B	Total:	720,712.352
08 DEWATERED RESINS	blank	C S	C-14	3,520.000
08 DEWATERED RESINS	blank	C S	CO-58	59,000.000
08 DEWATERED RESINS	blank	C S	CO-60	71,900.000
08 DEWATERED RESINS	blank	C S	CS-134	27,800.000
08 DEWATERED RESINS	blank	C S	CS-137	39,000.000
08 DEWATERED RESINS	blank	C S	FE-55	11,200.000

Table F-2 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Isotopes	Activity (mCi)
08 DEWATERED RESINS	blank	C S	H-3	62.400
08 DEWATERED RESINS	blank	C S	MN-54	5,910.000
08 DEWATERED RESINS	blank	C S	NI-63	8,640.000
08 DEWATERED RESINS	blank	C S	SR-90	3,840.000
08 DEWATERED RESINS	blank	C S	SR-90	4.450
08 DEWATERED RESINS	blank	C S	TC-99	.137
		C S	Total:	181,876.987
		C	Total:	181,876.987
		Solidification/Absorption Total:		1,365,192.908
DEWATERED RESINS				
		Waste Description Total:		12,961,128.195

Table F-2 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	44 Concrete (2500 psi)	A U	C-14	82.400
02 DRY SOLID	44 Concrete (2500 psi)	A U	CE-141	18.900
02 DRY SOLID	44 Concrete (2500 psi)	A U	CO-58	1,780.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	CO-60	162,000.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	CR-51	1,270.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	FE-55	130,000.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	FE-59	308.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	H-3	2.380
02 DRY SOLID	44 Concrete (2500 psi)	A U	MN-54	6,220.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	NB-95	3,150.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	NI-63	10,400.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	SB-124	114.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	SB-125	775.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	SN-113	142.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	TE-125M	167.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	ZN-65	69,500.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	ZR-95	1,550.000
02 DRY SOLID	44 Concrete (2500 psi)	A U	Total:	387,480.680
		A	Total:	387,480.680
		Solidification/Absorption Total:		387,480.680

02 DRY SOLID	15 Envirostone	A U	AG-110M	307.063
02 DRY SOLID	15 Envirostone	A U	AM-241	.014
02 DRY SOLID	15 Envirostone	A U	BA-140	.376
02 DRY SOLID	15 Envirostone	A U	C-14	18.602
02 DRY SOLID	15 Envirostone	A U	CE-141	69.000
02 DRY SOLID	15 Envirostone	A U	CE-144	388.000
02 DRY SOLID	15 Envirostone	A U	CM-242	.005
02 DRY SOLID	15 Envirostone	A U	CM-244	.017
02 DRY SOLID	15 Envirostone	A U	CO-57	26.921
02 DRY SOLID	15 Envirostone	A U	CO-58	10,604.290
02 DRY SOLID	15 Envirostone	A U	CO-60	303.470
02 DRY SOLID	15 Envirostone	A U	CR-51	120.000
02 DRY SOLID	15 Envirostone	A U	CS-134	161.510
02 DRY SOLID	15 Envirostone	A U	CS-137	576.370
02 DRY SOLID	15 Envirostone	A U	FE-55	673.362
02 DRY SOLID	15 Envirostone	A U	H-3	171.710
02 DRY SOLID	15 Envirostone	A U	I-129	.003
02 DRY SOLID	15 Envirostone	A U	I-131	.115
02 DRY SOLID	15 Envirostone	A U	LA-140	.433
02 DRY SOLID	15 Envirostone	A U	MN-54	3.427
02 DRY SOLID	15 Envirostone	A U	NB-95	663.000
02 DRY SOLID	15 Envirostone	A U	NI-63	627.163
02 DRY SOLID	15 Envirostone	A U	PU-238	.022
02 DRY SOLID	15 Envirostone	A U	PU-239	.016

Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	15 Envirostone	A U	FU-241	1.273
02 DRY SOLID	15 Envirostone	A U	RU-103	.279
02 DRY SOLID	15 Envirostone	A U	SB-125	9.844
02 DRY SOLID	15 Envirostone	A U	SN-113	.100
02 DRY SOLID	15 Envirostone	A U	SR-90	1.433
02 DRY SOLID	15 Envirostone	A U	TC-99	.241
02 DRY SOLID	15 Envirostone	A U	TE-125M	.033
02 DRY SOLID	15 Envirostone	A U	XE-131M	.033
02 DRY SOLID	15 Envirostone	A U	ZN-65	.222
02 DRY SOLID	15 Envirostone	A U	ZR-95	334.000
		A U	Total:	15.062.347
		A	Total:	15.062.347
		Solidification/Absorption Total:		15.062.347
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	AG-110M	178.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	AM-241	.141
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	C-14	132.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CE-141	.230
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CE-144	3.380
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CM-242	.024
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CM-244	.110
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CO-57	.420
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CO-58	151.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CO-60	2.490.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CR-51	.553
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CS-134	2.530.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	CS-137	9.940.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	FE-55	7.270.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	H-3	158.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	HN-54	51.800
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	NR-95	5.870
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	NI-59	1.240
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	NI-63	5.650.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	FU-238	.202
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	FU-241	14.500
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	RU-103	.630
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	RU-106	2.770
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	SB-125	222.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	TC-99	9.750
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	TE-125M	51.000
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	ZN-65	.020
02 DRY SOLID	46 Envirostone (U.S. Gypsum Cement)	B S	ZR-95	3.020
		B S	Total:	28.868.660
		B	Total:	28.868.660

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Table F-2 (Continued)

F-104

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
Solidification/Absorption Total:				28,868,660
02 DRY SOLID	04 Floor Dry/Superfine	A U	AG-110M	45,586
02 DRY SOLID	04 Floor Dry/Superfine	A U	BA-140	1,620
02 DRY SOLID	04 Floor Dry/Superfine	A U	C-14	702
02 DRY SOLID	04 Floor Dry/Superfine	A U	CE-144	28,818
02 DRY SOLID	04 Floor Dry/Superfine	A U	CM-242	370
02 DRY SOLID	04 Floor Dry/Superfine	A U	CO-57	10,749
02 DRY SOLID	04 Floor Dry/Superfine	A U	CO-58	2,380,401
02 DRY SOLID	04 Floor Dry/Superfine	A U	CO-60	1,818,748
02 DRY SOLID	04 Floor Dry/Superfine	A U	CR-51	1,097,250
02 DRY SOLID	04 Floor Dry/Superfine	A U	CS-134	325,901
02 DRY SOLID	04 Floor Dry/Superfine	A U	CS-136	1,080
02 DRY SOLID	04 Floor Dry/Superfine	A U	CS-137	404,301
02 DRY SOLID	04 Floor Dry/Superfine	A U	FE-55	4,520,020
02 DRY SOLID	04 Floor Dry/Superfine	A U	FE-59	111,550
02 DRY SOLID	04 Floor Dry/Superfine	A U	H-3	553,657
02 DRY SOLID	04 Floor Dry/Superfine	A U	I-129	317
02 DRY SOLID	04 Floor Dry/Superfine	A U	MN-54	437,231
02 DRY SOLID	04 Floor Dry/Superfine	A U	NB-95	513,455
02 DRY SOLID	04 Floor Dry/Superfine	A U	NI-63	360,161
02 DRY SOLID	04 Floor Dry/Superfine	A U	PU-241	7,392
02 DRY SOLID	04 Floor Dry/Superfine	A U	RU-103	7,170
02 DRY SOLID	04 Floor Dry/Superfine	A U	RU-106	7,080
02 DRY SOLID	04 Floor Dry/Superfine	A U	SB-125	42,180
02 DRY SOLID	04 Floor Dry/Superfine	A U	SR-89	633
02 DRY SOLID	04 Floor Dry/Superfine	A U	SR-90	486
02 DRY SOLID	04 Floor Dry/Superfine	A U	TC-99	323
02 DRY SOLID	04 Floor Dry/Superfine	A U	ZN-65	633,864
02 DRY SOLID	04 Floor Dry/Superfine	A U	ZR-95	191,390
		A U	Total:	13,503,437
		A	Total:	13,503,437
02 DRY SOLID	04 Floor Dry/Superfine	C S	AG-108M	1,000
02 DRY SOLID	04 Floor Dry/Superfine	C S	AG-110M	32,425
02 DRY SOLID	04 Floor Dry/Superfine	C S	AM-241	1,609
02 DRY SOLID	04 Floor Dry/Superfine	C S	BA-140	12,901
02 DRY SOLID	04 Floor Dry/Superfine	C S	C-14	21,038
02 DRY SOLID	04 Floor Dry/Superfine	C S	CE-141	12,052
02 DRY SOLID	04 Floor Dry/Superfine	C S	CE-144	213,774
02 DRY SOLID	04 Floor Dry/Superfine	C S	CM-242	32,636
02 DRY SOLID	04 Floor Dry/Superfine	C S	CM-243	2,994
02 DRY SOLID	04 Floor Dry/Superfine	C S	CM-244	001
02 DRY SOLID	04 Floor Dry/Superfine	C S	CO-57	574,917
02 DRY SOLID	04 Floor Dry/Superfine	C S	CO-58	7,140,973
02 DRY SOLID	04 Floor Dry/Superfine	C S	CO-60	33,193,000
02 DRY SOLID	04 Floor Dry/Superfine	C S	CR-51	4,321,726

Table F-2 (Continued)

F-105

Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	04 Floor Dry/Superfine	C S	CS-134	287.880
02	DRY SOLID	04 Floor Dry/Superfine	C S	CS-136	8.581
02	DRY SOLID	04 Floor Dry/Superfine	C S	CS-137	1,149.700
02	DRY SOLID	04 Floor Dry/Superfine	C S	FE-55	110,490.000
02	DRY SOLID	04 Floor Dry/Superfine	C S	FE-59	255.396
02	DRY SOLID	04 Floor Dry/Superfine	C S	H-3	2,761.250
02	DRY SOLID	04 Floor Dry/Superfine	C S	I-129	3.522
02	DRY SOLID	04 Floor Dry/Superfine	C S	I-131	22.200
02	DRY SOLID	04 Floor Dry/Superfine	C S	MN-54	1,930.800
02	DRY SOLID	04 Floor Dry/Superfine	C S	NB-95	2,116.162
02	DRY SOLID	04 Floor Dry/Superfine	C S	NI-59	15.150
02	DRY SOLID	04 Floor Dry/Superfine	C S	NI-63	11,831.000
02	DRY SOLID	04 Floor Dry/Superfine	C S	PU-238	4.342
02	DRY SOLID	04 Floor Dry/Superfine	C S	PU-239	3.467
02	DRY SOLID	04 Floor Dry/Superfine	C S	PU-240	.001
02	DRY SOLID	04 Floor Dry/Superfine	C S	PU-241	345.250
02	DRY SOLID	04 Floor Dry/Superfine	C S	PU-242	.003
02	DRY SOLID	04 Floor Dry/Superfine	C S	RU-103	77.186
02	DRY SOLID	04 Floor Dry/Superfine	C S	RU-106	34.670
02	DRY SOLID	04 Floor Dry/Superfine	C S	SB-124	33.949
02	DRY SOLID	04 Floor Dry/Superfine	C S	SB-125	443.410
02	DRY SOLID	04 Floor Dry/Superfine	C S	SN-113	6.050
02	DRY SOLID	04 Floor Dry/Superfine	C S	SR-89	282.653
02	DRY SOLID	04 Floor Dry/Superfine	C S	SR-90	141.363
02	DRY SOLID	04 Floor Dry/Superfine	C S	TC-99	7.983
02	DRY SOLID	04 Floor Dry/Superfine	C S	TH-228	.023
02	DRY SOLID	04 Floor Dry/Superfine	C S	U-234	.001
02	DRY SOLID	04 Floor Dry/Superfine	C S	U-238	.001
02	DRY SOLID	04 Floor Dry/Superfine	C S	ZN-65	23.461
02	DRY SOLID	04 Floor Dry/Superfine	C S	ZR-95	1,313.704
			C S	Total:	179,149.304
			C	Total:	179,149.304
				Solidification/Absorption Total:	192,652.741
02	DRY SOLID	98 None Required	A U	AG-110M	8.670
02	DRY SOLID	98 None Required	A U	AM-241	.072
02	DRY SOLID	98 None Required	A U	BA-133	.016
02	DRY SOLID	98 None Required	A U	BA-140	83.564
02	DRY SOLID	98 None Required	A U	C-14	7.948
02	DRY SOLID	98 None Required	A U	CD-109	.455
02	DRY SOLID	98 None Required	A U	CE-139	.005
02	DRY SOLID	98 None Required	A U	CE-141	15.488
02	DRY SOLID	98 None Required	A U	CE-144	.204
02	DRY SOLID	98 None Required	A U	CL-36	.002
02	DRY SOLID	98 None Required	A U	CM-242	.046
02	DRY SOLID	98 None Required	A U	CM-243	.002

Table F-2 (Continued)

F-106

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02 DRY SOLID	98 None Required	A U	CM-244	.010
02 DRY SOLID	98 None Required	A U	CO-57	.087
02 DRY SOLID	98 None Required	A U	CO-58	331.391
02 DRY SOLID	98 None Required	A U	CO-60	7,669.409
02 DRY SOLID	98 None Required	A U	CR-51	242.564
02 DRY SOLID	98 None Required	A U	CS-134	2,387.596
02 DRY SOLID	98 None Required	A U	CS-136	.362
02 DRY SOLID	98 None Required	A U	CS-137	2,485.367
02 DRY SOLID	98 None Required	A U	EU-152	.001
02 DRY SOLID	98 None Required	A U	EU-155	.276
02 DRY SOLID	98 None Required	A U	FE-55	2,566.471
02 DRY SOLID	98 None Required	A U	FE-59	20.083
02 DRY SOLID	98 None Required	A U	H-3	4,280.478
02 DRY SOLID	98 None Required	A U	HG-203	.001
02 DRY SOLID	98 None Required	A U	I-129	.271
02 DRY SOLID	98 None Required	A U	I-131	195.885
02 DRY SOLID	98 None Required	A U	LA-140	96.143
02 DRY SOLID	98 None Required	A U	MN-54	856.498
02 DRY SOLID	98 None Required	A U	NB-95	95.924
02 DRY SOLID	98 None Required	A U	NI-59	.002
02 DRY SOLID	98 None Required	A U	NI-63	471.924
02 DRY SOLID	98 None Required	A U	PM-147	2.665
02 DRY SOLID	98 None Required	A U	PU-238	.072
02 DRY SOLID	98 None Required	A U	PU-239	.165
02 DRY SOLID	98 None Required	A U	PU-240	.057
02 DRY SOLID	98 None Required	A U	PU-241	1.736
02 DRY SOLID	98 None Required	A U	RA-226	.200
02 DRY SOLID	98 None Required	A U	RU-106	.212
02 DRY SOLID	98 None Required	A U	SB-124	7.175
02 DRY SOLID	98 None Required	A U	SB-125	16.182
02 DRY SOLID	98 None Required	A U	SN-113	6.322
02 DRY SOLID	98 None Required	A U	SR-85	.001
02 DRY SOLID	98 None Required	A U	SR-89	.002
02 DRY SOLID	98 None Required	A U	SR-90	124.357
02 DRY SOLID	98 None Required	A U	TC-99	.448
02 DRY SOLID	98 None Required	A U	TE-125M	2.016
02 DRY SOLID	98 None Required	A U	U-233	.007
02 DRY SOLID	98 None Required	A U	U-234	.045
02 DRY SOLID	98 None Required	A U	U-235	.045
02 DRY SOLID	98 None Required	A U	U-238	.052
02 DRY SOLID	98 None Required	A U	XE-131M	4.582
02 DRY SOLID	98 None Required	A U	Y-88	.008
02 DRY SOLID	98 None Required	A U	ZN-65	20,776.104
02 DRY SOLID	98 None Required	A U	ZR-95	45.605
02 DRY SOLID	98 None Required	A U	Total:	42,806.283
		A	Total:	42,806.283

Table F-2 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
Solidification/Absorption Total:				42,806.283
02 DRY SOLID	96 Other Solidification Media	A U	C-14	.061
02 DRY SOLID	96 Other Solidification Media	A U	CO-58	1.078
02 DRY SOLID	96 Other Solidification Media	A U	CO-60	48.599
02 DRY SOLID	96 Other Solidification Media	A U	CR-51	1.577
02 DRY SOLID	96 Other Solidification Media	A U	CS-137	6.778
02 DRY SOLID	96 Other Solidification Media	A U	FE-55	11.878
02 DRY SOLID	96 Other Solidification Media	A U	H-3	3.913
02 DRY SOLID	96 Other Solidification Media	A U	I-129	.008
02 DRY SOLID	96 Other Solidification Media	A U	MN-54	9.182
02 DRY SOLID	96 Other Solidification Media	A U	NI-63	.686
02 DRY SOLID	96 Other Solidification Media	A U	TC-99	.013
02 DRY SOLID	96 Other Solidification Media	A U	ZN-65	.819
02 DRY SOLID		A U	Total:	84.592
		A	Total:	84.592
Solidification/Absorption Total:				84.592
02 DRY SOLID	09 Safe-N-Dri	A U	C-14	43.221
02 DRY SOLID	09 Safe-N-Dri	A U	CM-242	.086
02 DRY SOLID	09 Safe-N-Dri	A U	CM-244	.016
02 DRY SOLID	09 Safe-N-Dri	A U	CO-58	29.510
02 DRY SOLID	09 Safe-N-Dri	A U	CO-60	2,388.445
02 DRY SOLID	09 Safe-N-Dri	A U	CR-51	372.500
02 DRY SOLID	09 Safe-N-Dri	A U	CS-134	5.234
02 DRY SOLID	09 Safe-N-Dri	A U	CS-137	7.104
02 DRY SOLID	09 Safe-N-Dri	A U	FE-55	5,984.299
02 DRY SOLID	09 Safe-N-Dri	A U	FE-59	16.160
02 DRY SOLID	09 Safe-N-Dri	A U	H-3	1.166
02 DRY SOLID	09 Safe-N-Dri	A U	I-129	.234
02 DRY SOLID	09 Safe-N-Dri	A U	MN-54	161.600
02 DRY SOLID	09 Safe-N-Dri	A U	NI-63	271.746
02 DRY SOLID	09 Safe-N-Dri	A U	PU-238	.113
02 DRY SOLID	09 Safe-N-Dri	A U	PU-239	.036
02 DRY SOLID	09 Safe-N-Dri	A U	PU-241	8.440
02 DRY SOLID	09 Safe-N-Dri	A U	TC-99	.234
02 DRY SOLID	09 Safe-N-Dri	A U	ZN-65	8.440
02 DRY SOLID		A U	Total:	9,298.584
		A	Total:	9,298.584
Solidification/Absorption Total:				9,298.584
02 DRY SOLID	blank	A U	AG-110M	21.100
02 DRY SOLID	blank	A U	AM-241	.002
02 DRY SOLID	blank	A U	BA-140	.266

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Table F-2 (Continued)



F-108

Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	blank	A U	C-14	355.075
02	DRY SOLID	blank	A U	CE-141	.077
02	DRY SOLID	blank	A U	CE-144	.058
02	DRY SOLID	blank	A U	CM-242	.118
02	DRY SOLID	blank	A U	CM-244	.026
02	DRY SOLID	blank	A U	CO-58	234.940
02	DRY SOLID	blank	A U	CO-60	12,351.984
02	DRY SOLID	blank	A U	CR-51	575.500
02	DRY SOLID	blank	A U	CS-134	963.284
02	DRY SOLID	blank	A U	CS-136	.329
02	DRY SOLID	blank	A U	CS-137	949.034
02	DRY SOLID	blank	A U	FE-55	32,007.700
02	DRY SOLID	blank	A U	FE-59	22.160
02	DRY SOLID	blank	A U	H-3	1.480
02	DRY SOLID	blank	A U	I-129	.040
02	DRY SOLID	blank	A U	I-131	.231
02	DRY SOLID	blank	A U	LA-140	.306
02	DRY SOLID	blank	A U	MN-54	2,050.600
02	DRY SOLID	blank	A U	NE-95	10.300
02	DRY SOLID	blank	A U	NI-59	9.450
02	DRY SOLID	blank	A U	NI-63	526.820
02	DRY SOLID	blank	A U	PO-238	.158
02	DRY SOLID	blank	A U	PO-239	.057
02	DRY SOLID	blank	A U	PU-241	11.956
02	DRY SOLID	blank	A U	SR-90	45.796
02	DRY SOLID	blank	A U	TC-99	.095
02	DRY SOLID	blank	A U	XE-131M	.046
02	DRY SOLID	blank	A U	ZN-65	8,331.560
			A U	Total:	58,470.548
			A	Total:	58,470.548
			C S	AG-110M	122.000
02	DRY SOLID	blank	C S	C-14	.043
02	DRY SOLID	blank	C S	CE-144	95.000
02	DRY SOLID	blank	C S	CM-242	3.630
02	DRY SOLID	blank	C S	CM-243	.688
02	DRY SOLID	blank	C S	CO-57	44.600
02	DRY SOLID	blank	C S	CO-58	6,890.000
02	DRY SOLID	blank	C S	CO-60	7,300.000
02	DRY SOLID	blank	C S	CR-51	1,720.000
02	DRY SOLID	blank	C S	CS-134	22.700
02	DRY SOLID	blank	C S	CS-136	3.110
02	DRY SOLID	blank	C S	CS-137	35.100
02	DRY SOLID	blank	C S	FE-55	15,900.000
02	DRY SOLID	blank	C S	FE-59	271.000
02	DRY SOLID	blank	C S	H-3	37.000
02	DRY SOLID	blank	C S	I-129	.024
02	DRY SOLID	blank	C S	MN-54	1,350.000

Table F-2 (Continued)

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Table F-2 (Continued)

Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
02	DRY SOLID	blank	C S	NE-95	1.830.000
02	DRY SOLID	blank	C S	NI-59	1.340
02	DRY SOLID	blank	C S	NI-63	2.060.000
02	DRY SOLID	blank	C S	PU-238	643
02	DRY SOLID	blank	C S	PU-241	47.800
02	DRY SOLID	blank	C S	RU-103	22.500
02	DRY SOLID	blank	C S	SB-125	75.900
02	DRY SOLID	blank	C S	SR-89	3.580
02	DRY SOLID	blank	C S	SR-90	4.050
02	DRY SOLID	blank	C S	TC-99	016
02	DRY SOLID	blank	C S	ZR-95	835.000
					38.775.734
C S Total:					38.775.734
Solidification/Absorption Total:					97.246.282
DRY SOLID					773.500.169
Waste Description Total:					773.500.169

F-110

Waste Description	Solidification / Absorption Media	Waste Class	Isotopes	Activity (mCi)
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	AM-241	.051
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	C-14	8 516
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CM-242	1.043
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CM-244	.336
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CO-57	105 681
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CO-58	587 807
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CO-60	1,331.052
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CR-51	.851
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CS-134	314 807
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	CS-137	633 950
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	FE-55	171 100
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	FE-59	.228
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	H-3	1,580 300
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	I-129	2 092
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	I-131	.357
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	MN-54	266 095
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	NB-95	.142
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	NI-63	375 980
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PO-238	.080
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PO-239	.041
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PU-241	5 398
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	PU-242	.160
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	SB-125	18 859
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	SE-75	.535
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	SR-90	6 587
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	TC-99	27 832
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	TK-125M	4 549
20 EVAPORATOR BOTTOMS	36 Bitumen (ATI & Waste Chem)	A U	XE-131M	.010
		A U Total:		5,444.439
		A Total:		5,444.439
		Solidification/Absorption Total:		5,444.439
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	AG-110	315 726
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	AM-241	.026
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	C-14	52 182
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CM-242	.079
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CM-243	.011
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CO-57	3 761
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CO-58	824 061
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CO-60	3,223 513
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	CR-51	58 826
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	FE-55	5,086 426
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	H-3	15 854
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	I-129	.040
20 EVAPORATOR BOTTOMS	12 Concrete (Structural)	A U	MN-54	303 317

Table F-2 (Continued)

Waste Description			Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	NB-95	306.591
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	NB-97	10.432
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	NI-83	1,215.160
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	NP-237	.004
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	PU-238	.019
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	PU-239	.027
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	PU-241	1.617
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	PU-242	.006
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	SB-124	17.314
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	SB-125	37.599
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	SN-113	16.192
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	SR-92	41.897
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	TC-99	.022
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	ZN-65	29.960
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	ZR-95	75.504
20	EVAPORATOR	BOTTOMS	12 Concrete (Structural)	A U	ZR-97	10.432
						11,446.601
						11,446.601
Solidification/Absorption Total:						11,446.601
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	AG-110M	4.083
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	C-14	6.210
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	CO-57	1.447
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	CO-58	349.900
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	CO-60	89.500
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	CS-134	216.900
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	CS-137	864.000
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	FE-55	83.900
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	H-3	879.000
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	MN-54	3.710
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	NI-83	130.100
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	PU-238	.105
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	PU-241	.234
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	SB-125	18.110
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	SR-90	1.800
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	TC-99	.006
20	EVAPORATOR	BOTTOMS	15 Envirostone	A U	TE-125M	.995
						2,650.090
						2,650.090
Solidification/Absorption Total:						2,650.090
20	EVAPORATOR	BOTTOMS	98 None Required	A U	AG-110	.107
20	EVAPORATOR	BOTTOMS	98 None Required	A U	AM-241	.001
20	EVAPORATOR	BOTTOMS	98 None Required	A U	C-14	4.014
20	EVAPORATOR	BOTTOMS	98 None Required	A U	CM-242	.001

Table F-2 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
20 EVAPORATOR BOTTOMS	98 None Required	A U	CM-243	.301
20 EVAPORATOR BOTTOMS	98 None Required	A U	CO-57	.002
20 EVAPORATOR BOTTOMS	98 None Required	A U	CO-58	.230
20 EVAPORATOR BOTTOMS	98 None Required	A U	CO-60	.376
20 EVAPORATOR BOTTOMS	98 None Required	A U	CR-51	.031
20 EVAPORATOR BOTTOMS	98 None Required	A U	FE-55	.593
20 EVAPORATOR BOTTOMS	98 None Required	A U	H-3	1.415
20 EVAPORATOR BOTTOMS	98 None Required	A U	I-129	.001
20 EVAPORATOR BOTTOMS	98 None Required	A U	MN-54	.019
20 EVAPORATOR BOTTOMS	98 None Required	A U	NB-95	.092
20 EVAPORATOR BOTTOMS	98 None Required	A U	NB-97	.005
20 EVAPORATOR BOTTOMS	98 None Required	A U	NI-63	.142
20 EVAPORATOR BOTTOMS	98 None Required	A U	NP-237	.001
20 EVAPORATOR BOTTOMS	98 None Required	A U	PU-238	.091
20 EVAPORATOR BOTTOMS	98 None Required	A U	PU-239	.001
20 EVAPORATOR BOTTOMS	98 None Required	A U	PU-241	.001
20 EVAPORATOR BOTTOMS	98 None Required	A U	PU-242	.001
20 EVAPORATOR BOTTOMS	98 None Required	A U	SB-124	.009
20 EVAPORATOR BOTTOMS	98 None Required	A U	SB-125	.020
20 EVAPORATOR BOTTOMS	98 None Required	A U	SN-113	.008
20 EVAPORATOR BOTTOMS	98 None Required	A U	TC-99	.001
20 EVAPORATOR BOTTOMS	98 None Required	A U	ZN-65	.016
20 EVAPORATOR BOTTOMS	98 None Required	A U	ZR-95	.039
20 EVAPORATOR BOTTOMS	98 None Required	A U	ZR-97	.005
		A U	Total:	7.133
		A	Total:	7.133
			Solidification/Absorption Total:	7.133
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	C-14	125.585
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	CO-58	1.124.800
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	CO-60	359.550
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	CS-134	1.113.055
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	CS-137	1.814.937
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	FE-55	243.659
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	H-3	12.209.440
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	I-129	.002
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	NB-95	9.500
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	NI-63	104.420
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	SB-124	1.212.968
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	SB-125	52.920
20 EVAPORATOR BOTTOMS	96 Other Solidification Media	A U	TC-99	.414
		A U	Total:	18.371.250
		A	Total:	18.371.250
			Solidification/Absorption Total:	18.371.250

Table F-2 (Continued)

F-113

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	AG-110M	242.500
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	AM-241	.070
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	C-14	98.080
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CE-144	7.443
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CM-242	.543
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CM-243	.057
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CO-57	18.070
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CO-58	4.067.000
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CO-60	135.420
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CS-134	1.056.900
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CS-136	289.000
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	CS-137	1.843.000
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	FE-55	242.500
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	FE-59	15.896
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	R-3	3.126.000
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	I-129	.066
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	MN-54	9.759
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	NI-59	8.965
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	NI-63	750.200
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	PU-238	.237
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	PU-239	.107
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	PU-241	7.592
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	SR-89	3.611
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	SR-90	12.647
20 EVAPORATOR BOTTOMS	49 Westinghouse-Hittman Cement	A U	TC-99	.047
		A U	Total:	11.935.710
		A	Total:	11.935.710
			Solidification/Absorption Total:	11.935.710

Table F-2 (Continued)

EVAPORATOR BOTTOMS

Waste Description Total: 49,855.223



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	C-14	6 514
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	CO-58	210 245
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	CO-60	5,063 484
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	CR-51	68 676
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	FE-55	23,636 018
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	FE-59	39 688
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	MN-54	7,118 730
24 NON-CARTRIDGE FILTER MEDIA	36 Bitumen (ATI & Waste Chem)	A U	NI-63	1 800
		A U	Total:	36,145 155
		A	Total:	36,145 155
			Solidification/Absorption Total:	36,145 155
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	AM-241	907
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	C-14	298 270
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CE-144	3 037
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CM-242	023
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CM-243	003
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CM-244	003
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CO-57	16 265
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CO-58	499 197
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CO-60	2,182 006
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CS-134	2,790 567
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	CS-137	4,619 307
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	FE-55	9,154 492
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	H-3	484 443
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	I-129	027
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	MN-54	296 486
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	NB-95	5 629
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	NI-59	14 211
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	NI-63	1,384 369
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-238	007
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-239	012
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-240	012
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	PU-241	1 865
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	SB-125	29 459
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	SR-89	020
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	SR-90	1 045
24 NON-CARTRIDGE FILTER MEDIA	47 LN Technologies Cement	B S	TC-99	007
		B S	Total:	21,780 769
		B	Total:	21,780 769
			Solidification/Absorption Total:	21,780 769
24 NON-CARTRIDGE FILTER MEDIA	blank	A U	C-14	360 143
24 NON-CARTRIDGE FILTER MEDIA	blank	A U	CO-58	22,879 247

Table F-2 (Continued)

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Waste Description		Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	CO-60	173,568.634
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	CR-51	443,563.000
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	CS-134	.489
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	CS-137	1,034.120
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	FE-55	559,059.658
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	FE-59	27,196.000
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	H-3	2,051.829
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	MN-54	101,113.313
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	NB-95	7,010.000
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	NI-63	4,125.648
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	SB-124	.471
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	SB-125	.056
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	SR-90	14.580
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	TC-99	.183
24	NON-CARTRIDGE FILTER MEDIA	blank	A U	ZN-65	1,255.090
			A U	Total:	1,443,232.371
			A	Total:	1,443,232.371
			Solidification/Absorption Total:		1,443,232.371

NON-CARTRIDGE FILTER MEDIA

Waste Description Total: 1,501,158.295

Table F-2 (Continued)

Waste Description				Solidification / Absorp	Media	Waste Class	Isotope	Activity (mCi)
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	AG-110	86.053
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	AG-110M	58.793
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	AM-241	100
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	BA-140	156
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	C-14	171.162
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CE-144	85.542
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CM-242	246
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CM-243	022
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-57	058
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CO-59	530.082
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	S U	CO-60	4,115.424
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CR-51	28.110
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-134	143.236
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-136	089
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	CS-137	1,488.925
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	EU-155	023
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FE-55	6,283.995
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	FE-59	2.617
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	H-3	722.635
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-129	423
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	I-131	1.637
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	MN-54	296.003
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-91	121.282
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NB-97	141
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NI-59	005
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NI-63	1,155.950
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	NP-237	007
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PM-147	335
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-238	501
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-239	433
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-240	501
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-241	94.073
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	PU-242	007
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RA-226	340
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RH-106	32.858
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-103	54.567
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	RU-106	170.819
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-124	232
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SB-125	6.503
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SN-113	218
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SR-09	153.635
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SR-90	20.180
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	SR-92	32.114
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	TC-99	84.896
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	TC-99M	006
22	NON-COMPACTED	DRY	ACTIVE WASTE	98	None Required	A U	TE-125M	030

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Table F-2 (Continued)

Waste Description				Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	H-233	.036
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	U-234	.002
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	U-235	.002
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	U-238	.002
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	ZN-65	91.042
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	ZR-95	30.072
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	A U	ZR-97	141
					A U	Total:	16,065.361
					A	Total:	16,065.361
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	C-14	84.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	CE-144	151.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	CO-58	159.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	CO-60	3,206.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	CS-134	37.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	CS-137	309.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	FE-55	14,940.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	H-3	434.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	MN-54	95.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	NI-63	3,816.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	PU-238	4.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	PU-239	4.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	PU-241	439.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	RU-106	812.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	SB-125	126.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	SR-90	26.000
22	NON-COMPACTED DRY ACTIVE WASTE			98 None Required	C S	U-235	.001
					C S	Total:	24,642.001
					C	Total:	24,642.001
						Solidification/Absorption Total:	40,707.362
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	AM-241	.017
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	C-14	42.202
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CM-242	.029
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CM-244	.019
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CO-57	.975
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CO-58	388.040
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CO-80	152.341
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CR-51	.228
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CS-134	13.236
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	CS-137	39.927
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	FE-55	505.534
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	FE-59	4.430
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	H-3	146.013
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	I-129	.064
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	MN-54	96.128
22	NON-COMPACTED DRY ACTIVE WASTE			09 Safe-N-Dri	A U	NB-95	6.263

Table F-2 (Continued)

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Waste Description					Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	NI-63	105.079
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	PU-238	.030
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	PU-239	.036
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	PU-241	1.070
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	SB-125	.100
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	SN-113	.065
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	SR-90	.984
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	TC-99	.144
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	TE-125M	.006
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	ZN-65	.519
22	NON-COMPACTED	DRY	ACTIVE	WASTE	09 Safe-N-Dri	A U	ZR-95	.231
							A U Total:	1,503.710
							A Total:	1,503.710
							Solidification/Absorption Total:	1,503.710

22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	AG-110	.039
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	AG-110M	17.893
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	AM-241	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	C-14	21.192
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CE-141	45.985
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CE-144	52.855
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CM-242	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CM-244	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CO-58	320.932
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CO-60	525.898
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CR-51	497.954
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CS-134	215.895
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	CS-137	602.420
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	FE-55	2,069.532
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	FE-59	76.025
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	H-3	19.460
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	I-129	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	I-131	8.832
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	MN-54	155.161
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	NB-95	133.053
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	NI-63	99.828
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	PU-238	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	PU-239	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	PU-241	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	RU-103	89.177
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	SB-124	909.420
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	SR-89	.008
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	SR-90	.304
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	TC-99	.107
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	ZR-95	55.720
22	NON-COMPACTED	DRY	ACTIVE	WASTE	blank	A U	Total:	5,917.566

Table F-2 (Continued)



Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
		A	Total:	5,917,566
			Solidification/Absorption Total:	5,917,566
Waste Description Total:				48,128,638

NON-COMPACTED DRY ACTIVE WASTE



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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	C-14	72.030
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CO-58	210.030
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CO-60	5,522.030
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	CR-51	1,117.640
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	FE-55	33,700.000
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	FE-56	217.800
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	H-3	15.675
26 SOLIDIFIED CHELATES	96 Other Solidification Media	A U	MN-54	3,286.300
		A U	Total:	43,178.805
		A	Total:	43,178.805
			Solidification/Absorption Total:	43,178.805
Waste Description Total:				43,178.805
SOLIDIFIED CHELATES				

Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	C-14	20.319
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	CO-58	3,693.950
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	CO-60	2,384.926
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	CR-51	121.700
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	CS-134	1,069.110
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	CS-137	1,801.650
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	FE-55	3,295.200
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	H-3	4,106.907
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	I-131	6.180
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	MN-54	420.272
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	NI-63	1,978.081
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	SB-125	38.690
03 SOLIDIFIED LIQUIDS	12 Concrete (Structural)	A U	TC-99	.087
		A U	Total:	18,937.072
		A	Total:	18,937.072
			Solidification/Absorption Total:	18,937.072
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	C-14	.011
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	CO-57	.002
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	CO-58	.178
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	CO-60	.100
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	CS-137	.005
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	FE-55	.056
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	I-129	.002
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	MN-54	.063
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	NB-95	.001
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	NI-63	.050
03 SOLIDIFIED LIQUIDS	15 Envirostone	A U	TC-99	.002
		A U	Total:	.467
		A	Total:	.467
			Solidification/Absorption Total:	.467
05 SOLIDIFIED LIQUIDS	98 None Required	A U	AG-110M	42.300
03 SOLIDIFIED LIQUIDS	98 None Required	A U	BA-140	.720
03 SOLIDIFIED LIQUIDS	98 None Required	A U	C-14	2.260
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CE-141	.223
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CO-58	188.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CO-60	1,900.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CR-51	469.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CS-134	55.900
03 SOLIDIFIED LIQUIDS	98 None Required	A U	CS-137	66.500
03 SOLIDIFIED LIQUIDS	98 None Required	A U	FE-55	1,130.000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	H-3	1.820
03 SOLIDIFIED LIQUIDS	98 None Required	A U	I-129	.002

Table F-2 (Continued)

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Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
03 SOLIDIFIED LIQUIDS	98 None Required	A U	I-131	118
03 SOLIDIFIED LIQUIDS	98 None Required	A U	LA-140	838
03 SOLIDIFIED LIQUIDS	98 None Required	A U	MM-54	185,000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	NR-95	36,100
03 SOLIDIFIED LIQUIDS	98 None Required	A U	NI-63	86,600
03 SOLIDIFIED LIQUIDS	98 None Required	A U	SR-90	241
03 SOLIDIFIED LIQUIDS	98 None Required	A U	TC-99	006
03 SOLIDIFIED LIQUIDS	98 None Required	A U	XE-131M	005
03 SOLIDIFIED LIQUIDS	98 None Required	A U	ZN-65	6,430,000
03 SOLIDIFIED LIQUIDS	98 None Required	A U	ZR-95	23,800
03 SOLIDIFIED LIQUIDS	98 None Required	A U	Total:	10,622,443
		A	Total:	10,622,443
		Solidification/Absorption Total:		10,622,443
Waste Description Total:				29,559,982

Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	C-14	551
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	CO-60	26,204
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	CS-134	.038
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	CS-137	2,191
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	CS-139	.001
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	FE-55	42,812
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	FE-59	.004
27 SOLIDIFIED OIL	75 Aquaset I and II	A U	H-3	2,018
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	I-129	.543
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	MN-54	1,841
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	NI-63	16,077
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	SR-89	.108
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	SR-90	.102
27 SOLIDIFIED OIL	35 Aquaset I and II	A U	TC-99	.660
		A U	Total:	93,150
		A	Total:	93,150
		Solidification/Absorption Total:		93,150
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	AM-241	.003
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	C-14	1,773
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CM-242	.001
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CM-244	.002
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CO-57	.002
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CO-58	.323
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CO-60	2,844,034
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CS-134	103,114
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	CS-137	628,832
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	FE-55	352,712
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	H-3	39,829
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	I-129	.135
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	MN-54	.007
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	NI-63	19,508
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	PU-238	.004
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	PU-239	.002
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	PU-241	.034
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	SR-89	.001
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	SR-90	3,745
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	TC-99	.632
27 SOLIDIFIED OIL	37 Chem-Nuclear Cement	A U	ZN-65	202,500
		A U	Total:	4,197,193
		A	Total:	4,197,193
		Solidification/Absorption Total:		4,197,193
27 SOLIDIFIED OIL	15 Envirostone	A U	AM-241	.021

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Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
27 SOLIDIFIED OIL	15 Envirostone	A U	C-14	72.531
27 SOLIDIFIED OIL	15 Envirostone	A U	CM-241	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	CM-242	.032
27 SOLIDIFIED OIL	15 Envirostone	A U	CO-60	13.409
27 SOLIDIFIED OIL	15 Envirostone	A U	CS-134	1.271
27 SOLIDIFIED OIL	15 Envirostone	A U	CS-137	7.699
27 SOLIDIFIED OIL	15 Envirostone	A U	FE-55	3.074
27 SOLIDIFIED OIL	15 Envirostone	A U	H-3	223.421
27 SOLIDIFIED OIL	15 Envirostone	A U	I-129	.026
27 SOLIDIFIED OIL	15 Envirostone	A U	MN-54	.621
27 SOLIDIFIED OIL	15 Envirostone	A U	NI-63	.312
27 SOLIDIFIED OIL	15 Envirostone	A U	NP-237	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-238	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-239	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-240	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-241	.121
27 SOLIDIFIED OIL	15 Envirostone	A U	PU-242	.021
27 SOLIDIFIED OIL	15 Envirostone	A U	SR-90	.183
27 SOLIDIFIED OIL	15 Envirostone	A U	TC-99	.982
27 SOLIDIFIED OIL	15 Envirostone	A U	ZN-65	4.146
27 SOLIDIFIED OIL	15 Envirostone	A U	Total:	327.975
		A	Total:	327.975
		Solidification/Absorption Total:		327.975
27 SOLIDIFIED OIL	39 Petroset I and II	A U	AM-241	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	AM-243	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	C-14	1.590
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CE-144	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CM-242	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CM-243	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CM-244	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CO-60	.291
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CS-134	.025
27 SOLIDIFIED OIL	39 Petroset I and II	A U	CS-137	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	FE-55	.495
27 SOLIDIFIED OIL	39 Petroset I and II	A U	H-3	.348
27 SOLIDIFIED OIL	39 Petroset I and II	A U	I-129	.118
27 SOLIDIFIED OIL	39 Petroset I and II	A U	MN-54	.025
27 SOLIDIFIED OIL	39 Petroset I and II	A U	ND-144	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	NI-63	.194
27 SOLIDIFIED OIL	39 Petroset I and II	A U	NP-237	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-238	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-239	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-240	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-241	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	PU-242	.040

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Table F-2 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (#Ci)
27 SOLIDIFIED OIL	39 Petroset I and II	A U	SB-125	.613
27 SOLIDIFIED OIL	39 Petroset I and II	A U	SR-90	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	TC-99	.040
27 SOLIDIFIED OIL	39 Petroset I and II	A U	TE-125M	.013
27 SOLIDIFIED OIL	39 Petroset I and II	A U	U-234	.040
		A U	Total:	3.792
		A U	Total:	3.792
			Solidification/Absorption Total:	3.792
		A U	C-14	1.855
		A U	CO-60	.077
		A U	CS-137	.002
		A U	FE-55	.031
		A U	H-3	16.032
		A U	NI-63	.031
		A U	SR-89	.031
		A U	SR-90	.031
		A U	Total:	18.090
		A U	Total:	18.090
			Solidification/Absorption Total:	18.090
			Waste Description Total:	4.640.200

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Table F-2 (Continued)



Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	C-14	81,505
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CO-58	80,580
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CO-60	1,074,798
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CR-51	12,376
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	CS-137	150
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	FE-55	2,306,871
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	MN-54	1,597,521
09 SOLIDIFIED RESINS	36 Bitumen (ATI & Waste Chem)	A U	NI-63	40,722
09 SOLIDIFIED RESINS		A U	Total:	5,194,523
		A	Total:	5,194,523
		Solidification/Absorption Total:		5,194,523
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	C-14	154,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CO-58	7,180,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CO-60	4,500,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CS-134	32,900,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	CS-137	57,300,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	FE-55	4,430,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	H-3	137,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	MN-54	1,980,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	NI-63	12,000,000
09 SOLIDIFIED RESINS	12 Concrete (Structural)	B S	SR-90	125,000
09 SOLIDIFIED RESINS		B S	Total:	120,706,000
		B	Total:	120,706,000
		Solidification/Absorption Total:		120,706,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	AM-241	721
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	C-14	1,013,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CM-242	418
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CM-244	926
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CO-60	17,140,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CS-134	35,500,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	CS-137	146,900,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	FE-55	39,300,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	H-3	253,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	MN-54	921,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	NI-63	34,300,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	PU-238	1,214
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	PU-239	1,341
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	PU-241	70,300
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	SR-90	368,000
09 SOLIDIFIED RESINS	46 Envirostone (U.S. Gypsum Cement)	B S	TC-99	602
09 SOLIDIFIED RESINS		B S	Total:	275,780,522
		B	Total:	275,780,522

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Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
Solidification/Absorption Total:				275,780,522
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	AM-241	.031
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	C-14	7,309
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CM-242	.076
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CM-243	.006
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CM-244	.006
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CO-57	792,733
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CO-58	17,935,125
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CO-60	90,572,381
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CS-134	45,435,550
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	CS-137	50,367,899
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	FE-55	4,474,276
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	H-3	954,074
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	I-129	.105
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	MN-54	12,689,699
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	NI-59	488,185
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	NI-63	49,543,992
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	NP-237	.001
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-238	.028
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-239	.108
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-240	.108
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-241	8,764
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	PU-242	.001
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	SR-89	31,832
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	SR-90	143,045
09 SOLIDIFIED RESINS	47 LN Technologies Cement	B S	TC-99	.514
B S Total:				273,444,958
B Total:				273,444,958
Solidification/Absorption Total:				273,444,958
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	C-14	1,941
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CO-58	51,633
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CO-60	2,021,348
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CR-51	24,815
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CS-134	.601
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	CS-137	290,279
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	FE-55	504,891
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	H-3	116,155
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	I-129	167
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	MN-54	359,739
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	NI-63	33,892
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	PU-239	.042
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	SR-90	.922
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	TC-99	.345

Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
09 SOLIDIFIED RESINS	96 Other Solidification Media	A U	ZM-65	29,248
		A U	Total:	3,435,918
		A	Total:	3,435,918
			Solidification/Absorption Total:	3,435,918
SOLIDIFIED RESINS			Waste Description Total:	678,561,921

Waste Description	Solidification / Absorption Media	Waste Class	Isotope	Activity (mCi)
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CM-242	.003
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CO-60	4.635
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CS-134	.034
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	CS-137	.134
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	FE-55	3.161
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	MN-54	.055
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	NI-63	.050
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	PU-241	.003
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dr. /Superfine	A U	SB-125	.078
11 SORBED NON-AQUEOUS LIQUID	04 Floor Dry/Superfine	A U	SR-90	.003
				<hr/>
				A U Total: 8.156
				A Total: 8.156
				Solidification/Absorption Total: 8.156
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	AG-110M	.244
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	AM-241	.016
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	C-14	1.460
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CE-144	.068
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CM-242	.001
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CM-243	.002
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CM-244	.002
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CO-17	.020
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CO-58	2.210
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CO-60	300.000
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CS-134	3.430
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	CS-137	131.000
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	FE-55	75.400
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	H-3	6.090
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	MN-54	.103
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	NI-59	4.950
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	NI-63	309.000
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-239	.017
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-239	.009
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-240	.009
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	PU-241	.703
11 SORBED NON-AQUEOUS LIQUID	95 Other Sorbent	A S	SR-90	.115
				<hr/>
				A S Total: 834.849
				A Total: 834.849
				Solidification/Absorption Total: 834.849
SORBED NON-AQUEOUS LIQUID			Waste Description Total:	843.005

Table F-2 (Continued)

Table F-2 (Continued)

Waste Description	Solidification / Absorption Media	Waste Class	Isotopes	Activity (mCi)
GRAND TOTAL:				39,756,339.040

**BIBLIOGRAPHIC DATA SHEET**

(See instructions on the reverse)

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U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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10. SUPPLEMENTARY NOTES

11. ABSTRACT (200 words or less)

This report presents the volume, activity, and radionuclide distributions in low-level radioactive waste (LLW) disposed during 1987 through 1989 at the commercial disposal facilities located near Barnwell, SC, Richland, WA, and Beatty, NV. The report has been entirely assembled from descriptions of waste provided in LLW shipment manifests. Individual radionuclide distributions are listed as a function of waste class, of general industry, and of waste stream. In addition, information is presented about disposal of wastes containing chelating agents, about use of solidification media, about the distribution of radiation levels at the surfaces of waste containers, and about the distribution of waste container sizes. Considerably more information is presented about waste disposed at the Richland and Beatty disposal facilities than at the Barnwell disposal facility.

12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)

Low-level waste	Solidification media
LLW	Radionuclide
Barnwell	Radiation
Richland	
Beatty	
U.S. Ecology, Inc.	
Chem-Nuclear Systems, Inc.	
Waste class	
Waste stream	
Chelating agents	

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