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Information on the Radiological and Chemical Characterization of the Savannah River Site Tank Waste

As of July 5, 2011

N. Rao Pasala

Prepared by:

N Rao Pasala 9/26/11
N. Rao Pasala, LWO Process Chemistry Programs Date

Checked by:

R C Fowler Review by: Document Review 9/26/2011
R. C. Fowler, LWO Process Chemistry Programs Date

Approved by:

A. W. Wiggins, Jr 9/26/11
A. W. Wiggins, Manager, Process Chemistry Programs Date

N Rao Pasala for NFC Per email 9/28/11
N. F. Chapman, Manager, Engineering Programs Date

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Summary of Revisions

September 2011

Revision 0, initial issue

1 Introduction

The purpose of this document is to estimate radioactive and non-radioactive inventories in each waste tank. A combination of WCS data and published technical information are utilized in estimating the tank inventories for the sludge, salt, and liquid phases. The inventories for the waste tanks are provided in **Table A-1 to 16** and reflect the estimated tank farm inventories as of 7/5/2011.

The Waste Characterization System¹ (WCS) is an electronic information system used to support a wide variety of liquid waste management safety and operational decisions. The system consists of two Excel workbooks (Sludge 1.5, WCS 1.5) and tracks selected waste tank data, including radioactive and non-radioactive inventories based on sample analyses, process histories, composition studies and theoretical relationships. WCS is based on a relatively sophisticated model developed in the early nineteen-nineties that estimated the quantity of materials disposed to the tanks using monthly production records from November 1954 through early 1993 as well as average compositions of various waste streams. The main purpose of the model was to provide reasonable estimates on which to base safety analysis evaluations such as criticality in the Tank Farm. The WCS model contains a significant level of conservatism in the estimate of non-radioactive material mass. This conservatism is implemented to ensure that a large margin of safety is maintained in criticality analyses. To assist planning for operations at the Defense Waste Processing Facility (DWPF), improved predictions of the non-radioactive material mass in the sludge phase have been developed. Furthermore, there are a small number of additional radioisotopes, not currently tracked in WCS, which have recently been characterized using alternate methods. Therefore, to provide the most accurate estimates of both the radiological and non-radiological material, this report uses the original WCS model, the improved non-radiological predictions, and the information concerning the newly characterized additional radioisotopes.

The inventories reported in this document are best available information or estimate values which are appropriate for planning. Due to the actual use of the information, the estimates are approximate and may over or underestimate the actual inventories (i.e., may be conservative for safety purposes, but not reflective of actual lower or higher inventories). The values in this report are not intended for use in the formation of safety analysis documents. For safety analysis purposes, refer to the latest WCS information.

2 Discussion

A snapshot of the WCS workbook was taken on 7/5/2011 (referred to in this document as the July 2011 WCS) and used as the basis for the July 2011 Curie and Volume Inventory Report². The tank sludge, salt, and liquid volumes used for calculations in this document are obtained from the July 2011 WCS. The electronic workbooks used to generate the July 2011 WCS are referred to as the July 2011 Sludge 1.5 and WCS 1.5 source files² and they are utilized to project radioactive and non-radioactive tank inventories contained in this document.

The WCS was developed mainly to assist the tank farm criticality analysis with a significant level of conservatism built in for sludge non-radioactive material mass. A study³ concluded that the current WCS model prediction was underestimating the non-radioactive sludge mass. Better predictions of non-radioactive mass were developed and are documented in the SRS Sludge Characterization Model Using Dial-up Factors report⁴. The electronic file reference used in the sludge characterization modeling was a snapshot of the Sludge 1.5 workbook as of 5/30/2005 and referred to in this document as the Dial-up Sludge workbook. Since then, additional Tank Farm waste transfers were incorporated in the Information on the Radiological and Chemical Characterization of the Savannah River Site Tank Waste as of January 3, 2011⁵ (referred to in this document as the January 2011 Characterization document). Therefore, the sludge non-radioactive material mass reported in this document (see Section 2.2.1) is the integration of the July 2011 Sludge 1.5 workbook and the January 2011 Characterization document.

Methods and computations used to generate radioactive and non-radioactive inventory projections (see Section 2.1 and Section 2.2) are discussed separately for sludge, salt, and liquid phases. Unique tanks, such as those that have been operationally closed are addressed in Section 2.3.

In this report, the following definitions are used. The sludge phase consists of insoluble sludge solids. The sludge interstitial liquid inventory is accounted for in the liquid phase. The salt phase consists of crystallized salts and entrained sludge solids. The salt interstitial liquid inventory is accounted for in the liquid phase. Thus, the liquid phase consists of three portions: free supernatant, salt interstitial liquid and sludge interstitial liquid.

Radioactive and non-radioactive inventories for each tank are listed from **Table A-1** through **Table A-16**. Note that some tanks do not have all phases and are reflected by absence of any data for that phase in that tank.

2.1 Tank Radioactive Inventories

Waste tank radioactive inventories reported in this section are addressed for the three phases: sludge, salt, and liquid. Besides reporting the WCS tracked radioactive inventories for each waste phase, inventories of selected additional radioisotopes⁶ estimated for tank closure purposes are included where developed to date. The additional radioisotopes are Na-22, Al-26, Te-125m, Sb-126, Sb-126m, Sm-151, Eu-152, Eu-155, Ra-226, Ra-228, Ac-227, Th-229, Th-230, Pa-231, Pu-244, Am-243, Cm-242, Cm-243, Cm-247, Cm-248, Bk-249, Cf-249, Cf-251, and Cf-252. Computation methods for the additional radioisotopes are addressed specifically in Section 2.1.4 and phase partitions are based on solubility factors reported in Section 2.1.3.3.

The inventories of radionuclides in sludge, salt, and liquid phases for each waste tank are outlined from **Table A-1** to **Table A-10**.

2.1.1 Sludge Phase Radioactive Inventory

The insoluble sludge inventories of H-3, C-14, Co-60, Ni-59, Ni-63, Se-79, Sr-90, Y-90, Nb-94, Tc-99, Ru-106, Rh-106, Sb-125, Sn-126, I-129, Cs-134, Cs-135, Cs-137, Ba-137m, Ce-144, Pr-144, Pm-147, Eu-154, Th-232, U-232, U-233, U-234, U-235, U-236, U-238, Np-237, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, total Am-241, Am-242m, Cm-244, and Cm-245 for each waste tank are taken directly from the July 2011 WCS 1.5 (Pred Sludge Ci tab).

Further, isolated Am/Cm additions⁷ to the waste tanks have been documented and the additional inventories of Am-241, Am-243, Cm-244, and Cm-245 are adjusted accordingly in the July 2011 Sludge 1.5 workbook.

Inventories of the additional radioisotopes, determined by methods described in Section 2.1.4 (Additional Radioisotopes) and Section 2.1.3.3 (solubility factor listed in Table 3), are included in the sludge phase for each tank. The sludge phase radioactive inventory is listed in **Table A-1**.

2.1.2 Salt Phase Radioactive Inventory

Concentrations of C-14, Sr-90, Y-90, Cs-137, Ba-137m, U-235, U-238, Pu-238, and Pu-239 in the salt phase are reported in the July 2011 WCS (Pred Salt Ci tab). These concentrations are multiplied by the total salt volume in each tank to obtain salt radioactive inventories. With the exception of C-14 and Cs-137/Ba-137m, the radioisotopes are considered entrained sludge which will settle from the supernatant phase following salt dissolution. The C-14 and Cs-137/Ba-137m are soluble and will dissolve during the dissolution of the salt phase.

Also, tank radioactive inventories of Na-22, Al-26, Ac-227, and Pa-231 are determined for the salt phase based on the algorithms described in Section 2.1.4. The Na-22 and Al-26 are assumed to dissolve during bulk salt dissolution. Ac-227 and Pa-231 are present in entrained sludge and will settle from the

supernatant phase following dissolution of the salt phase. The salt phase tank radioactive inventory is listed in **Table A-2**.

2.1.3 Liquid Phase Radioactive Inventory

In general, the tank liquid phase inventory for each radioisotope is determined by multiplying the tank total liquid volume by soluble radioisotope concentrations. The soluble concentrations used in this document are determined from available WCS data, supernate algorithms, and Cs-137 activity inventories (specified in the worksheets). The tank total liquid phase inventory is then divided into free supernatant, sludge interstitial liquid, and salt interstitial liquid inventories. The liquid phase radionuclide inventories are listed from **Table A-3** to **Table A-10**.

2.1.3.1 Available WCS data

WCS tracks liquid inventories of Cs-137, Ba-137m, Th-232, U-232, U-233, U-234, U-235, U-236, U-238, Np-237, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Am-241, Am-242m, Cm-244, and Cm-245. The tank Cs/Ba data came from the latest liquid samples while inventories of others are based on the tank entrained sludge radiological contents, radiological alpha constant, and surrogate tank designation. In some cases, a surrogate tank was designated to represent the liquid actinide concentrations of non-sludge tank. This is due to the fact that WCS contains comprehensive data on the surrogate tank's liquid actinide concentrations and the documented transfer history between the tanks justifies the use of surrogate tank information in lieu of other historical data.

The liquid phase contains a small amount of entrained sludge solids and details of the sludge radiological contents algorithms can be found in the July 2011 WCS 1.5 (Formula 04, Columns BO-CF). The alpha concentrations reported in the July 2011 WCS 1.5 (Main Input 01, Column HM) are 0.00021 (Ci/gal) for Tanks 1-24, 0.0071 (Ci/gal) for Tanks 25-47, 51, 0.000386 (Ci/gal) for Tank 49 and 0.0000025 (Ci/gal) for Tanks 48 and 50. The surrogate tank designations reported in the July 2011 WCS 1.5 (Formula 04, column EA) are reproduced in Table 1.

Table 1: Surrogate Tank Designations

| Tank | Surrogate Tank | Tank | Surrogate Tank | Tank | Surrogate Tank |
|------|----------------|------|----------------|------|----------------|
| 1 | 7 | 19 | 19 | 37 | 32 |
| 2 | 7 | 21 | 21 | 38 | 43 |
| 3 | 7 | 22 | 22 | 39 | 39 |
| 4 | 4 | 23 | 23 | 40 | 40 |
| 5 | 5 | 24 | 43 | 41 | 43 |
| 6 | 6 | 25 | 26 | 42 | 42 |
| 7 | 7 | 26 | 26 | 43 | 43 |
| 8 | 8 | 27 | 26 | 44 | 26 |
| 9 | 13 | 28 | 26 | 45 | 26 |
| 10 | 13 | 29 | 13 | 46 | 26 |
| 11 | 11 | 30 | 32 | 47 | 26 |
| 12 | 12 | 31 | 13 | 48 | 48 |
| 13 | 13 | 32 | 32 | 49 | 43 |
| 14 | 14 | 33 | 33 | 50 | 50 |
| 15 | 15 | 34 | 34 | 51 | 51 |
| 16 | 16 | 35 | 35 | | |
| 18 | 18 | 36 | 13 | | |

Even though liquid phase inventories of Am-241, Am-242m, Cm-244, and Cm-245 are tracked in WCS using the methodology described above, it is chosen not to report those values due to isolated Am/Cm additions⁷. Instead, their liquid phase inventories are determined by utilizing solubility factor of 0.001 and ratio of the soluble Cs-137 (Section 2.1.3.3).

The liquid phase inventories of Cs-137, Ba-137m, Th-232, U-232, U-233, U-234, U-235, U-236, U-238, Np-237, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Am-241, Am-242m, Cm-244, and Cm-245 are reported in **Table A-3** through **Table A-6**.

2.1.3.1.1 Alternate Actinide Supernatant Inventory for Type III/IIIA Tanks

Even though the liquid phase actinide inventory of Type III/IIIA tanks are reported in WCS, an alternate method of estimating actinides in the liquid phase for planning purposes utilized liquid sample data to determine an alternate actinide supernatant inventory for type III/IIIA tanks. The alternate liquid alpha algorithm⁸ of 0.00041 (Ci/gal) (1.09E+05 pCi/mL) is based on recent actinide analyses of thirteen tanks. Surrogate tank designation (Table 1) is maintained the same in the estimation of alternate actinide liquid phase inventory as it was for the actinide liquid phase reported in WCS (Section 2.1.3.1). This lower alpha constant will reduce the dissolved actinide inventories in these affected Type III/IIIA tanks. Resulting liquid phase actinide inventories based on the alternate algorithm are reported in **Table A-7** through **Table A-10**, which are recommended for use in flowsheet type evaluations.

2.1.3.2 Supernatant Algorithms

Algorithms⁹ are used to estimate the liquid phase inventories of C-14, Co-60, Ni-63, and Sr-90 (except for certain tanks as discussed in Section 2.3). I-129 liquid phase inventory is determined by multiplying the tank liquid phase Cs-137 activity by a constant value of 1.5E-07¹⁰. These algorithms listed in Table 2 project estimates for total liquid phase inventory of these radioisotopes.

Table 2: Liquid Phase Radionuclide Algorithms

| Radionuclide | Constant | Algorithms |
|--------------|----------|---|
| C-14 | 1.76E+03 | Recommended C-14 concentration (pCi/mL) in liquid. |
| Co-60 | 1.03E+03 | Recommended Co-60 concentration (pCi/mL) in liquid. |
| Ni-63 | 2.50E+03 | Recommended Ni-63 concentration (pCi/mL) in liquid. |
| Sr-90 | 2.60E-04 | Multiplying constant by liquid Rad Gamma (Ci/gal) |
| I-129 | 1.50E-07 | Multiplying constant by liquid Cs-137 (Ci/gal) |

H-3 inventories for each tank are calculated using reported concentrations¹¹.

The liquid phase inventories of H-3, C-14, Co-60, Ni-63, Sr-90, and I-129 are reported in **Table A-3** through **Table A-6**.

2.1.3.3 Distribution of Radionuclides Based on Estimated Cs-137 Inventory

Liquid phase inventories of Ni-59, Nb-94, Ru-106, Rh-106, Sb-125, Cs-134, Cs-135, Ce-144, Pr-144, Pm-147, Eu-154, Am-241, Am-242m, Cm-244, and Cm-245, reported in **Table A-3** through **Table A-6**, are determined based on reported solubility factors in Ref. 12 and/or ratios of the liquid and sludge inventories of similar elements. The solubility factor for each radioisotope is listed in Table 3 along with sludge, liquid, and total inventories. To determine the liquid radioactive inventories for each tank, total liquid inventory for each radioisotope is needed and calculated by multiplying the solubility factor by total activity inventory in sludge then dividing by 1 minus the corresponding factor as listed in Table 3. With this, individual tank liquid radioactive inventory is determined by multiplying the total liquid radioactive inventory with the ratio of the individual tank's liquid Cs-137 to the total liquid Cs-137 because Cs-137 provides a good indication of partitioning of liquid phase radionuclide inventories due to its ubiquitous nature.

The equation for liquid phase inventory is as follows:

$$A_{i,k}(\text{Liquid} - \text{Ci}) = A_{\text{Sludge total},i} \times \frac{f_i}{1-f_i} \times \frac{A_{\text{Liquid Cs-137},k}(\text{Ci})}{A_{\text{Liquid Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 1}]$$

Where:

- A: activity, Ci
- i: radioisotope
- f: solubility factor
- k: tank

Total tank farm liquid phase inventories of Se-79 (89 Ci), Tc-99 (3.3E+04 Ci), and Sn-126 (450 Ci) have been estimated¹³. Individual tank liquid phase radionuclide inventories are determined by multiplying the radioisotope's total liquid inventory with the ratio of the tank's liquid Cs-137 to the total liquid Cs-137 inventory.

Inventories of additional radioisotopes⁶ Sm-151, Eu-152, Eu-155, Am-243 (includes 934 Ci from Am/Cm additions⁷), Cm-243, Cm-247, Cm-248, Bk-249, Cf-249, Cf-251, and Cf-252 as listed in Table 3 are determined in a similar manner. To determine these liquid phase inventories for each tank, total liquid phase inventory for each radioisotope is needed and calculated by multiplying the solubility factor by the corresponding total tank farm radioactive inventory. The chemistry of the transcurium elements is very similar to the rare earths (Promethium)¹⁴; therefore, their solubility factor of 0.001 is considered the same as of Pm-147. Equations [2, 3] are used with the solubility factors listed in Table 3 to compute the additional radioactive inventories in sludge and liquid phases because inventories of these radionuclides are not tracked in WCS either in sludge or liquid phases. The liquid phase inventories of the additional radioisotopes are reported in **Table A-3** through **Table A-6**.

The equations for sludge and liquid phases are as follows:

$$A_{i,k}(\text{Sludge} - \text{Ci}) = A_{\text{total}-i} \times (1-f_i) \times \frac{A_{\text{Sludge Cs-137},k}(\text{Ci})}{A_{\text{Sludge Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 2}]$$

$$A_{i,k}(\text{Liquid} - \text{Ci}) = A_{\text{total}-i} \times f_i \times \frac{A_{\text{Liquid Cs-137},k}(\text{Ci})}{A_{\text{Liquid Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 3}]$$

Table 3: Liquid Phase Inventory Estimates Based on Solubility

| Nuclide | Solubility Factor, f (a) | Dry Sludge Total, Ci | Liquid Inventory, Ci | Total Inventory, Ci |
|------------|--------------------------|----------------------|----------------------|---------------------|
| Ni-59 | 1.09E-03* | 2.54E+03 | 2.77E+00 | 2.54E+03 |
| Nb-94 | 1.00E-03 | 6.88E-01 | 6.88E-04 | 6.88E-01 |
| Ru-106 | 2.50E-01 | 5.10E+02 | 1.70E+02 | 6.80E+02 |
| Rh-106 | 2.50E-01 (b) | 4.75E+02 | 1.58E+02 | 6.33E+02 |
| Sb-125 | 5.00E-02 | 4.15E+04 | 2.19E+03 | 4.37E+04 |
| Cs-134 | 9.50E-01** | 3.94E+03 | 7.82E+04 | 8.22E+04 |
| Cs-135 | 9.50E-01** | 1.72E+01 | 3.42E+02 | 3.59E+02 |
| Ce-144 | 1.00E-03 | 6.21E+02 | 6.21E-01 | 6.21E+02 |
| Pr-144 | 1.00E-03 (c) | 5.98E+02 | 5.99E-01 | 5.99E+02 |
| Pm-147 | 1.00E-03 | 9.69E+05 | 9.70E+02 | 9.70E+05 |
| Eu-154 | 1.00E-03*** | 5.15E+05 | 5.16E+02 | 5.16E+05 |
| Sm-151 | 1.00E-03*** | 4.30E+06 | 4.30E+03 | 4.30E+06 |
| Eu-152 | 1.00E-03*** | 2.08E+04 | 2.08E+01 | 2.08E+04 |
| Eu-155 | 1.00E-03*** | 2.43E+05 | 2.43E+02 | 2.43E+05 |
| Am-241(d) | 1.00E-03*** | 3.58E+05 | 3.58E+02 | 3.58E+05 |
| Am-242m | 1.00E-03*** | 2.10E+02 | 2.10E-01 | 2.10E+02 |
| Am-243 (d) | 1.00E-03*** | 1.00E+03 | 1.00E+00 | 1.00E+03 |
| Cm-243 | 1.00E-03*** | 4.07E+01 | 4.07E-02 | 4.07E+01 |
| Cm-244 (d) | 1.00E-03*** | 2.01E+05 | 2.01E+02 | 2.01E+05 |
| Cm-245 (d) | 1.00E-03*** | 1.09E+02 | 1.09E-01 | 1.09E+02 |
| Cm-247 | 1.00E-03*** | 7.83E-09 | 7.84E-12 | 7.84E-09 |
| Cm-248 | 1.00E-03*** | 8.16E-09 | 8.17E-12 | 8.17E-09 |
| Bk-249 | 1.00E-03*** | 5.96E-16 | 5.97E-19 | 5.97E-16 |
| Cf-249 | 1.00E-03*** | 4.53E-08 | 4.53E-11 | 4.53E-08 |
| Cf-251 | 1.00E-03*** | 1.55E-09 | 1.55E-12 | 1.55E-09 |
| Cf-252 | 1.00E-03*** | 5.02E-11 | 5.03E-14 | 5.03E-11 |

Note:

- (a) Ref. 12, p. 27
- (b) Assumed same as Ru-106
- (c) Assumed same as Ce-144
- (d) Included Am/Cm discards to the tank farms, Ref. 7
- * Based on Ni-63 ratio between sludge and supernate inventories
- ** Based on Cs-137 ratio between sludge and supernate inventories
- *** Based on rare earths solubility (Pm-147)

2.1.4 Additional Radioisotopes

2.1.4.1 Na-22

Na-22 is not tracked in WCS 1.5 because it is a very minor contributor to total activity. The total Na-22 in high level waste is very conservatively estimated to be 5,060 Ci¹⁵. The partitions of Na between the liquid, sludge and salt phases have been estimated based on the ratios of elemental sodium mass in the different phases as calculated by WCS and are 45.3%, 0.2%, and 54.5%, respectively. Therefore, the Na-22 inventory in each phase is established by multiplying the total tank farm inventory of Na-22 by the appropriate partition value. In order to distribute the total amount to each phase in various tanks, the

ratio of Cs-137 in each tank to the total amount of Cs-137 in the appropriate phase is used. The equations have been entered directly into the spreadsheet for each of the waste tanks.

The equations for sludge, liquid and salt phases are as follows:

$$A_{\text{Na-22}}(\text{Sludge} - \text{Ci}) = 0.2\% \times 5,060 \text{ Ci} \times \frac{A_{\text{Sludge Cs-137}}(\text{Ci})}{A_{\text{Sludge Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 4}]$$

$$A_{\text{Na-22}}(\text{Liquid} - \text{Ci}) = 45.3\% \times 5,060 \text{ Ci} \times \frac{A_{\text{Liquid Cs-137}}(\text{Ci})}{A_{\text{Liquid Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 5}]$$

$$A_{\text{Na-22}}(\text{Salt} - \text{Ci}) = 54.5\% \times 5,060 \text{ Ci} \times \frac{A_{\text{Salt Cs-137}}(\text{Ci})}{A_{\text{Salt Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 6}]$$

2.1.4.2 Al-26

Al-26 is not tracked in Sludge 1.5 because it is a minor contributor to total activity. The entire amount of Al-26 in high level waste is very conservatively estimated to be 29.4 Ci¹⁶. The partitions of Al-26 between the liquid, sludge, and salt phases have been estimated based on the ratios of elemental aluminum mass in the different phases as calculated by WCS and are 43.5%, 19.3%, and 37.2%, respectively. Therefore, the amount of the Al-26 in each phase is found by multiplying the total inventory by the appropriate partition value. In order to apportion this amount to each phase in a specific waste tank, the ratio of Cs-137 in each tank to the total amount of Cs-137 in the applicable phase is used. The equations have been entered directly into the spreadsheet for each of the waste tanks.

The equations for sludge, liquid and salt phases are as follows:

$$A_{\text{Al-26}}(\text{Sludge} - \text{Ci}) = 19.3\% \times 29.4 \text{ Ci} \times \frac{A_{\text{Sludge Cs-137}}(\text{Ci})}{A_{\text{Sludge Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 7}]$$

$$A_{\text{Al-26}}(\text{Liquid} - \text{Ci}) = 43.5\% \times 29.4 \text{ Ci} \times \frac{A_{\text{Liquid Cs-137}}(\text{Ci})}{A_{\text{Liquid Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 8}]$$

$$A_{\text{Al-26}}(\text{Salt} - \text{Ci}) = 37.2\% \times 29.4 \text{ Ci} \times \frac{A_{\text{Salt Cs-137}}(\text{Ci})}{A_{\text{Salt Cs-137 Total}}(\text{Ci})} \quad [\text{Eq. 9}]$$

2.1.4.3 *Te-125m, Sb-126 and Sb-126m*

The Te-125m, Sb-126, and Sb-126m are not tracked in WCS 1.5 because they are minor contributors to the total activity. Inventories of these radioisotopes have been developed based on the activity of other radionuclides⁶. The basis is as follows: Sb-126m is in secular equilibrium with Sn-126, 14% of Sb-126m decays to Sb-126 and approximately 25% of the Sb-125 decays to Te-125m. The equations for the activity of each of these radionuclides have been entered directly into the spreadsheet for each of the waste tanks. The equations are as follows:

$$A_{\text{Sb-126m}} = A_{\text{Sn-126}} \quad [\text{Eq. 10}]$$

$$A_{\text{Sb-126}} = 0.14 \times A_{\text{Sb-126m}} \quad [\text{Eq. 11}]$$

$$A_{\text{Te-125m}} = \frac{A_{\text{Sb-125}}}{4.095} \quad [\text{Eq. 12}]$$

2.1.4.4 *Cm-242*

Cm-242 is not tracked in WCS 1.5 because it is a minor contributor to the total activity. Based on decay chain information⁶, the Cm-242 inventory is set equal to 82% of the Am-242m inventory. The equations for the sludge and liquid phase estimates have been entered directly into the spreadsheet for each of the waste tanks.

$$A_{\text{Cm-242}} (\text{Ci}) = 0.82 \times A_{\text{Am-242m}} (\text{Ci}) \quad [\text{Eq. 13}]$$

2.1.4.5 *Actinides from Decay Chains*

Actinide inventories for Ra-226, Ra-228, Ac-227, Th-229, Th-230, and Pa-231 are not currently tracked in WCS 1.5 because they are minor contributors to the total activity. The equations for the appropriate radioactive decay are utilized to estimate the inventories of these actinides¹⁷. The equations for daughter and granddaughter products are written in terms of the appropriate parent radionuclide. The age of the waste, t , is assumed to be 30 years old for the purpose of this estimate. The equations for the activity of each of these radionuclides have been entered directly into the spreadsheet for each of the waste tanks.

Th-230 and Ra-226

Th-230 and Ra-226 are respectively the daughter and granddaughter of U-234 which is tracked in WCS. The inventories of these progeny are estimated by using the following equations and the activity of U-234 in each waste phase.

$$A_{\text{Th-230}}(t) = 1.442A_{\text{U-234}}(t) \left[1 - \left(\frac{1}{2} \right)^{9.1976 \times 10^{-6} t} \right] \quad [\text{Eq. 14}]$$

$$A_{\text{Ra-226}}(t) = 1.4514A_{\text{U-234}}(t) \left[1 - 1.015 \left(\frac{1}{2} \right)^{9.1976 \times 10^{-6} t} + 0.015 \left(\frac{1}{2} \right)^{6.2133 \times 10^{-4} t} \right] \quad [\text{Eq. 15}]$$

Ra-228

Ra-228 is in secular equilibrium with Th-232 which is tracked in WCS. The Ra-228 activity is set to equal the Th-232 activity.

$$A_{\text{Ra-228}}(t) = A_{\text{Th-232}}(t) \quad [\text{Eq. 16}]$$

Th-229

Th-229 is the daughter of U-233 which is tracked in WCS. The inventory is estimated by using the following equation:

$$A_{\text{Th-229}}(t) = 1.0481A_{\text{U-233}}(t) \left[1 - \left(\frac{1}{2} \right)^{1.307 \times 10^{-4} t} \right] \quad [\text{Eq. 17}]$$

Pa-231 and Ac-227

Pa-231 and Ac-227 are, respectively, the daughter and granddaughter of U-235 which is tracked in WCS. The inventories are estimated using the following equations:

$$A_{\text{Pa-231}}(t) = A_{\text{U-235}}(t) \left[1 - \left(\frac{1}{2} \right)^{3.0488 \times 10^{-5} t} \right] \quad [\text{Eq. 18}]$$

$$A_{\text{Ac-227}}(t) = A_{\text{U-235}}(t) \left[1 - 1.00066 \left(\frac{1}{2} \right)^{3.0488 \times 10^{-5} t} + 6.6 \times 10^{-4} \left(\frac{1}{2} \right)^{4.5926 \times 10^{-2} t} \right] \quad [\text{Eq. 19}]$$

Pu-244

The Pu-244 predicted sludge inventory is bound (on a mass basis) by the Pu-242 sludge inventory¹⁸. The inventory is determined using the following equation:

$$A_{\text{Pu-244}}(t) = A_{\text{Pu-242}}(t) \times \frac{\text{kg}_{\text{Pu-242}}}{3.82 \text{Ci}_{\text{Pu-242}}} \times \frac{1 \text{kg}_{\text{Pu-242}}}{1 \text{kg}_{\text{Pu-244}}} \times \frac{1.81 \times 10^{-2} \text{Ci}_{\text{Pu-244}}}{\text{kg}_{\text{Pu-244}}} \quad [\text{Eq. 20}]$$

2.2 Tank Non-radioactive Mass Inventories

2.2.1 Sludge Phase Non-radioactive Inventory

The sludge solids inventories of AgOH, Al(OH)₃, BaSO₄, Ca₃(PO₄)₂, CaC₂O₄, CaCO₃, CaF₂, CaSO₄, Ce(OH)₃, Co(OH)₃, Cr(OH)₃, Cu(OH)₂, Fe(OH)₃, HgO, KNO₃, La(OH)₃, Mg(OH)₂, MnO₂, Na₂SO₄, Na₃PO₄, NaCl, NaF, NaI, NaNO₃, NaOH, Ni(OH)₂, PbCO₃, PbSO₄, Pr(OH)₃, RuO₂, SiO₂, SrCO₃, ThO₂, TiO₂, UO₂(OH)₂, Zn(OH)₂, ZrO(OH)₂, and Integral Zeolite for each of the waste tanks are projected based on the two workbooks: January 2011 Characterization Sludge workbook⁵ and the July 2011 Sludge 1.5 workbook. The sludge mass inventory of each tank shown in **Table A-11** is obtained from the July 2011 Characterization Sludge workbook [Pred Sludge (New) Tab, Columns BW-DH] with modifications as follows:

- Since the publication of the January 2011 Characterization document, additional sludge transfers to/from Tanks 4, 7, 12, 40, 42, and 51, as well as rebaseline of Tanks 4, and 7 are recorded in the July 2011 Sludge 1.5 workbook. The additional transfers are incorporated into the July 2011 Characterization Sludge workbook so that current sludge inventories can be projected for these tanks. Adjusted entries made to the January 2011 Characterization Sludge workbook are listed in Table 4.
- Non-radioactive inventories for the tanks with no transfer activity are extracted directly from the July 2011 Characterization Sludge workbook.

Table 4: January 2011 Characterization Sludge Workbook Adjustment

| Adjustments Made to January 2011 Dial-up Sludge Workbook | | | |
|--|---------------|--------------|-------------------|
| Date | Transfer Tank | Receipt Tank | Transfer Fraction |
| 11/8/2010 | 4 | 7 | 0.91 |
| 12/19/2010 | 51 | 42 | 0.0205 |
| 12/21/2010 | 12 | 7 | 0.341 |
| 1/9/2011 | 51 | 7 | 0.0218 |
| 2/10/2011 | 4 | 7 | 0.0498 |
| 3/3/2011 | 12 | 7 | -0.341 |
| 3/10/2011 | Rebaseline | 4 | -0.873 |
| 3/10/2011 | 12 | 7 | 0.055 |
| 3/10/2011 | 12 | 7 | -0.055 |
| 3/11/2011 | Dummy | 7 | |
| 3/11/2011 | Rebaseline | 7 | |
| 3/30/2011 | 40 | DWPF | -0.420 |
| 4/23/2011 | 51 | 7 | 0.018 |
| 4/23/2011 | 51 | 7 | -0.018 |
| 5/10/2011 | 51 | 7 | 0.013 |
| 5/10/2011 | 51 | 7 | -0.013 |
| 5/16/2011 | 51 | 40 | 0.328 |
| 5/16/2011 | 51 | 40 | -0.328 |
| 5/22/2011 | 51 | 40 | 0.757 |
| 5/22/2011 | 51 | 40 | -0.757 |
| 6/5/2011 | 4 | 7 | -0.379 |
| 6/5/2011 | 4 | 7 | 0.379 |
| 6/14/2011 | 7 | 51 | 0.873 |
| 6/14/2011 | 7 | 51 | -0.873 |
| 6/19/2011 | 7 | 51 | -1.000 |
| 6/19/2011 | 7 | 51 | 1.000 |
| 6/21/2011 | 12 | 51 | -0.694 |
| 6/21/2011 | 12 | 51 | 0.694 |
| 6/24/2011 | 4 | 7 | -0.621 |
| 6/24/2011 | 4 | 7 | 0.621 |

2.2.2 Salt Phase Non-radioactive Inventory

Crystallized salt solids inventories of Na₂C₂O₄, Na₂CO₃, Na₂SO₄, Na₃PO₄, NaAlO₂-2H₂O, NaCl, NaF, NaNO₂, NaNO₃, and NaOH for each of the waste tanks are extracted from the July 2011 WCS 1.5 Workbook. The salt phase inventory of each tank shown in **Table A-12** is taken from the July 2011 WCS 1.5 [Formula02, Columns BR-CK].

2.2.3 Liquid Phase Non-radioactive Inventory

Total liquid (free supernatant, salt interstitial liquid and sludge interstitial liquid) inventories of Ag, Al, As, B, Ba, Benzene, Ca, Cd, Co, Cr, Cs, Cu, Fe, Hg, K, Mg, Mn, Mo, Nd, Ni, Pb, Pu, Ru, Se, Si, Sr, Ti, TPB, U, Zn, Zr, AlOH_4^- , Cl^- , CO_3^{-2} , $\text{C}_2\text{O}_4^{-2}$, F^- , Na, NO_2^- , NO_3^- , OH^- , PO_4^{-3} , and SO_4^{-2} for each waste tank are taken from the July 2011 WCS 1.5 Workbook. The liquid phase mass inventory of each tank shown in **Table A-13** through **Table A-16** is taken from the July 2011 WCS 1.5 [Formula04, Columns CL-DZ].

2.3 Tanks 17, 20, 23, 48, 49 and 50

WCS does track some data for these tanks, however, better and more detailed waste characterizations of these tanks are available in other works, and therefore, they are addressed separately. Generally, these are unique tanks due to the nature of the waste in the tanks and/or their strategic uses in liquid waste operations.

Operationally Closed Tanks

Tanks 17 and 20: Characterizations of the tank residual materials for Tanks 17 and 20 can be found in references 19 and 20, respectively.

In-Tank Precipitation Process Product Slurry tank

Tank 48: Tank 48 contains 238,000 gal of slurry which is the product of the tetraphenyl borate in-tank-precipitation process operated in the 1990s. The slurry is different from the typical sludge found in other tanks. Inventories of Sr-90/Y-90, Cs-137/Ba-137m, U-233, U-234, U-235, U-236, U-238, Np-237, Pu-238, and Pu-239 as reported in July 2011 Sludge 1.5 are based on slurry sample analysis. Slurry concentrations have not been analyzed for Tc-99, Pu-240, and Pu-241²¹. The analyzed Cs-137, U-233, U-234, and U-235 concentrations are used for computing (as described in 2.1.3 and 2.1.4.5) the slurry inventory for additional radionuclides. The slurry inventory is divided into solid phase and liquid phase as reported in **Table A-1** and **Table A-3**.

Non-radioactive inventories reported in the liquid phase tables are taken directly from the Tank 48 Best Estimate Chemical Characterization²². The reported values are the tank total non-radioactive inventory.

Tanks with Detailed Waste Characterization

In general, the tank liquid phase radioactive and non-radioactive inventories reported are based on more detailed waste characterization. Inventories of unreported radioisotopes are determined in a similar fashion as described in the Section 2.1.3.

Tank 23: This tank contains DWPF recycle material and the solution generated from the dissolution of salt in Tank 41 and Tank 25. WCS reports zero inventories of major sludge radioisotopes in Tank 23

except for Co-60, Cs-134, and Cs-137/Ba-137m. Data from Tank 23 sample analyses^{23, 24} are utilized in estimating the tank liquid phase radioactive inventory. Predicted liquid phase radioactive inventory based on WCS reported Cs-137 value is selected when it is smaller than the inventory of constituents with sample data reported as less-than-detectable. Sample data of U-233 and Pu-242 are not utilized due to very large less-than-detectable values. For the unanalyzed radioisotopes, predicted liquid phase radioactive inventory is based on the latest sample Cs-137 inventory.

Data from Tank 23 sample analysis are utilized in estimating the tank liquid phase non-radioactive inventory^{23, 24}. WCS predicted inventories of liquid phase non-radioactive constituents are based on theoretical relationships. WCS predicted liquid phase non-radioactive inventory is selected when it is smaller than the less-than-detectable sample data. The tank sludge phase inventory of some non-radioactive constituents reported in this document is tracked in WCS (Pred Sludge Ci tab, AR27-CC27).

Tank 49: This tank contains the solution generated from DWPF recycle and the dissolution of salt in Tank 41 and Tank 25. Data from the Blend Evaluation for Tank 49 Feed²⁵ (with the exception of Am-242m, Cm-245, Th-230 and Am-243) are utilized in estimating the tank liquid inventories. Am-242m inventory is based on radioactive decay with Cm-242. Cm-245, Th-230 and Am-243 inventories are based on WCS. Predicted liquid phase radioactive inventory based on the sample Cs-137 inventory is selected when it is smaller than the less-than-detectable sample data. WCS predicted inventories of liquid phase non-radioactive constituents are based on theoretical relationships. The WCS predicted liquid non-radioactive constituent inventory is selected when it is smaller than the less-than-detectable sample data. Tank 49 contains some amount of insoluble solids²⁶ and inventories of analyzed constituents are included in the liquid inventories.

Tank 50: This tank is the feed tank to the Saltstone Production Facility. The tank material balance is separately tracked in WCS (Tank 50 Material Balance tab) based on the sample data and the tank transfer activity. All radioactive and non-radioactive concentrations listed in the Tank 50 material balance are utilized in this document. The WCS reported Cs-137 value is utilized to project inventories of additional radioactive constituents using the methodology described in Section 2.1.3. For other constituents in the liquid phase, data from the Tank 50 WAC sample analysis reports²⁷ are utilized in estimating the tank liquid phase inventories. When sample data are reported as less-than-detectable values, WCS predicted values are selected when they are smaller than the less-than-detectable values. Sample data of Th-229 and Th-230 are not utilized due to very large less-than-detectable values. Tank 50 contains some amount of unsuspendable insoluble solids, mostly Potassium Tetrphenylborate²⁸, and this phase is not tracked in the WCS. Therefore, the unsuspendable insoluble solids inventories are not accounted for in this document. Tank 50 has an Isopar[®]L concentration that is significantly low compared to the limit. A blend strategy²⁹ was devised in order to ensure Tank 50 maintained compliance with the Saltstone Production Facility WAC limit. The blend strategy defines how Tank 50 Isopar[®]L concentration is controlled to remain below 11ppm.

3 Reference

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Table A-1: Sludge Phase Radionuclide Inventory

| Tank | Sludge Volume, gal | H-3 (Ci) | C-14 (Ci) | Co-60 (Ci) | Ni-59 (Ci) | Ni-63 (Ci) | Se-79 (Ci) | Sr-90 (Ci) | Y-90 (Ci) | Nb-94 (Ci) | Tc-99 (Ci) | Ru-106 (Ci) | Rh-106 (Ci) | Sb-125 (Ci) | Sr-126 (Ci) | I-129 (Ci) | Cs-134 (Ci) | Cs-135 (Ci) | Cs-137 (Ci) | |
|--------------|--------------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|---------|
| 1 | 7.0E+03 | | 1.2E-02 | 8.3E+01 | 2.2E+01 | 1.7E+03 | 1.5E+01 | 4.5E+05 | 4.5E+05 | 1.1E-02 | 2.6E+02 | 6.7E-08 | 6.7E-08 | 2.4E+00 | 2.8E+01 | 1.2E-03 | 1.3E-03 | 1.7E-01 | 3.2E+04 | |
| 2 | 4.1E+03 | | 2.9E-03 | 6.0E+00 | 3.4E+00 | 2.6E+02 | 2.3E+00 | 6.1E+04 | 6.1E+04 | 1.7E-03 | 4.0E+01 | 4.6E-11 | 4.6E-11 | 7.0E-02 | 4.3E+00 | 1.9E-04 | 2.0E-05 | 2.7E-02 | 4.4E+03 | |
| 3 | 4.1E+03 | | 2.4E-03 | 6.6E+00 | 2.8E+00 | 2.2E+02 | 1.9E+00 | 5.4E+04 | 5.4E+04 | 1.4E-03 | 3.3E+01 | 3.1E-10 | 3.1E-10 | 1.0E-01 | 3.6E+00 | 1.6E-04 | 3.8E-05 | 2.2E-02 | 3.8E+03 | |
| 4 | 8.0E+03 | | | | | | | | | | | | | | | | | | | |
| 5 | 1.9E+03 | | 4.3E-03 | 2.7E+02 | 9.6E+00 | 7.7E+02 | 6.7E+00 | 1.4E+05 | 1.4E+05 | 5.0E-03 | 5.0E-02 | 3.1E-07 | 3.1E-07 | 2.5E+00 | 1.2E+01 | 5.5E-04 | 1.9E-03 | 7.7E-02 | 1.0E+03 | |
| 6 | 2.0E+03 | | 4.3E-03 | 8.6E+02 | 2.3E+01 | 1.8E+03 | 1.6E+01 | 2.1E+05 | 2.1E+05 | 1.2E-02 | 1.4E+00 | 3.0E-06 | 3.0E-06 | 3.0E+00 | 3.0E+01 | 3.0E-03 | 8.7E-03 | 1.9E-01 | 2.9E+03 | |
| 7 | 2.5E+04 | 4.6E-02 | 6.6E-02 | 4.9E+02 | 4.7E+01 | 3.9E+03 | 3.1E+01 | 9.3E+05 | 9.3E+05 | 1.9E-02 | 2.6E+02 | 1.5E+01 | 1.5E+01 | 4.5E+01 | 5.0E+01 | 3.2E-02 | 1.1E+02 | 3.5E-01 | 4.6E+04 | |
| 8 | 1.8E+04 | | 5.0E-02 | 8.7E+02 | 5.4E+01 | 4.4E+03 | 3.1E+01 | 1.3E+06 | 1.3E+06 | 1.0E-02 | 5.3E+02 | 1.5E-04 | 1.5E-04 | 3.3E-04 | 3.3E+01 | 1.9E-03 | 3.7E-01 | 3.5E-01 | 7.6E+04 | |
| 9 | 2.7E+03 | | 3.1E-03 | 6.5E+00 | 2.8E+02 | 2.3E+00 | 6.6E+04 | 6.6E+04 | 1.9E-01 | 1.9E-01 | 4.9E-11 | 4.9E-11 | 7.5E-02 | 4.6E+00 | 2.1E-04 | 2.1E-05 | 2.9E-02 | 4.7E+03 | | |
| 10 | 2.7E+03 | | 3.2E-04 | 7.3E-01 | 3.7E-01 | 2.8E+01 | 2.5E-01 | 6.9E+03 | 6.9E+03 | 1.9E-04 | 4.4E+00 | 9.3E-12 | 9.3E-12 | 9.3E-01 | 4.7E-01 | 2.1E-05 | 2.9E-06 | 3.0E-03 | 4.9E+02 | |
| 11 | 9.5E+03 | | 1.8E-02 | 5.3E+02 | 2.1E+01 | 1.7E+03 | 1.1E+01 | 5.5E+05 | 5.5E+05 | 2.9E-03 | 1.9E+02 | 4.5E-05 | 4.5E-05 | 1.1E+01 | 1.0E+01 | 6.7E-04 | 3.0E-01 | 1.3E-01 | 3.1E+04 | |
| 12 | 1.4E+04 | | 7.6E-03 | 1.2E+03 | 8.4E+00 | 6.9E+02 | 4.7E+00 | 2.0E+05 | 2.0E+05 | 1.5E-03 | 8.0E+01 | 4.8E-07 | 4.8E-07 | 1.5E+00 | 4.9E+00 | 2.9E-04 | 2.7E-02 | 5.4E-02 | 1.2E+04 | |
| 13 | 2.8E+05 | | 1.7E-01 | 2.3E+02 | 2.6E+02 | 2.1E+04 | 1.6E+02 | 6.0E+06 | 6.0E+06 | 7.6E-02 | 2.8E+03 | 7.9E-06 | 7.9E-06 | 2.6E+01 | 2.2E+02 | 1.1E-02 | 4.1E-01 | 1.9E+00 | 3.6E+05 | |
| 14 | 2.8E+04 | | 1.2E-03 | 2.5E+01 | 7.3E+00 | 5.7E+02 | 5.1E+00 | 1.5E+05 | 1.5E+05 | 3.4E-03 | 8.7E+01 | 1.1E-09 | 1.1E-09 | 3.0E-01 | 8.6E+00 | 4.0E-04 | 4.9E-04 | 5.8E-02 | 1.0E+04 | |
| 15 | 1.6E+05 | | 2.2E-01 | 3.1E+03 | 2.5E+02 | 2.0E+04 | 1.4E+02 | 5.8E+06 | 5.8E+06 | 3.5E-02 | 2.3E+03 | 2.5E-05 | 2.5E-05 | 3.1E+01 | 1.3E+02 | 8.1E-03 | 5.6E-01 | 1.6E+00 | 3.3E+05 | |
| 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | 4.0E+03 | | 2.4E-03 | 2.9E-01 | 1.4E-01 | 1.2E+01 | 4.7E-02 | 1.3E+03 | 1.3E+03 | -6.2E-06 | 1.4E+00 | 8.4E-08 | 8.4E-08 | 3.0E-02 | 2.2E-02 | 9.7E-07 | 4.1E-05 | 1.4E-04 | 1.1E+04 | |
| 19 | 2.0E+03 | | 1.8E-03 | 9.4E-01 | 1.1E-01 | 9.9E+00 | 7.2E-03 | 5.2E+00 | 5.2E+00 | 4.7E-06 | 8.3E-01 | 3.5E-05 | 3.5E-05 | 3.4E-01 | 1.7E-02 | 7.3E-07 | 9.7E-04 | 1.0E-03 | 6.3E+03 | |
| 21 | 5.3E+04 | | 3.0E-03 | 6.0E+01 | 1.0E+00 | 9.1E+01 | 7.8E-01 | 4.7E+04 | 4.7E+04 | 1.0E-04 | 1.3E+01 | 2.1E-01 | 2.1E-01 | 2.7E+00 | 7.1E-01 | 4.8E-05 | 5.7E-01 | 8.8E-03 | 2.7E+03 | |
| 22 | 7.2E+04 | | | 1.2E+02 | 2.1E+00 | 1.9E+02 | 1.7E+00 | 9.2E+04 | 9.2E+04 | 3.0E-04 | 2.8E+01 | 3.7E-05 | 3.7E-05 | 4.6E+00 | 1.5E+00 | 9.7E-05 | 1.6E-01 | 1.9E-02 | 5.0E+03 | |
| 23 | 1.3E+05 | | 1.7E-01 | | | | | | | | | | | | | | | | | 3.7E+02 |
| 24 | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | |
| 26 | 2.9E+05 | | 5.5E-01 | 4.1E+02 | 3.2E+01 | 3.0E+03 | 2.7E+00 | 1.5E+05 | 1.5E+05 | 1.4E-03 | 4.6E+01 | 9.9E-01 | 9.9E-01 | 2.6E+02 | 4.9E+00 | 2.2E-04 | 1.2E+00 | 3.1E-02 | 1.0E+04 | |
| 27 | 3.9E+03 | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | |
| 30 | 6.2E+02 | | 7.8E-04 | 1.4E+02 | 8.6E-01 | 8.1E+01 | 4.7E-01 | 3.3E+04 | 3.3E+04 | 1.2E-04 | 8.0E+00 | 2.9E-03 | 2.9E-03 | 1.3E+01 | 4.3E-01 | 2.8E-05 | 9.1E-01 | 5.3E-03 | 1.8E+03 | |
| 31 | | | | | | | | | | | | | | | | | | | | |
| 32 | 1.0E+05 | | 2.4E-01 | 1.6E+04 | 2.7E+02 | 2.4E+04 | 1.5E+02 | 8.2E+06 | 8.2E+06 | 3.8E-02 | 2.5E+03 | 1.8E-01 | 1.8E-01 | 8.7E+02 | 1.4E+02 | 8.7E-03 | 5.4E+01 | 1.7E+00 | 4.5E+05 | |
| 33 | 7.4E+04 | | 1.3E-01 | 2.6E+04 | 1.9E+02 | 1.8E+04 | 1.3E+02 | 7.4E+06 | 7.4E+06 | 9.6E-02 | 2.2E+03 | 9.7E+01 | 9.7E+01 | 2.2E+04 | 2.4E+02 | 1.1E-02 | 1.2E+02 | 1.5E+00 | 5.1E+05 | |
| 34 | 1.3E+04 | | | 1.4E+04 | 1.7E+02 | 1.5E+04 | 1.2E+02 | 6.3E+06 | 6.3E+06 | 8.9E-02 | 2.1E+03 | 3.3E+00 | 3.3E+00 | 6.7E+03 | 2.2E+02 | 9.8E-03 | 2.5E+01 | 1.4E+00 | 4.4E+05 | |
| 35 | 8.9E+04 | | 2.0E-01 | 1.8E+04 | 2.2E+02 | 2.0E+04 | 1.2E+02 | 7.4E+06 | 7.4E+06 | 3.1E-02 | 2.1E+03 | 2.1E-01 | 2.1E-01 | 1.0E+03 | 1.1E+02 | 7.2E-03 | 5.8E+01 | 1.4E+00 | 4.0E+05 | |
| 36 | 1.9E+02 | | 2.3E-04 | 1.5E+01 | 2.6E-01 | 2.3E+01 | 1.4E-01 | 8.1E+03 | 8.1E+03 | 3.6E-05 | 2.4E+00 | 4.2E-06 | 4.2E-06 | 5.3E-01 | 1.3E-01 | 8.3E-06 | 2.0E-02 | 1.6E-03 | 4.5E+02 | |
| 37 | | | | | | | | | | | | | | | | | | | | |
| 38 | 1.3E+05 | | 2.4E-01 | 5.6E+04 | 2.7E+02 | 2.5E+04 | 1.5E+02 | 1.0E+07 | 1.0E+07 | 3.7E-02 | 2.5E+03 | 5.8E+01 | 5.8E+01 | 9.2E+03 | 1.3E+02 | 8.6E-03 | 1.1E+03 | 1.7E+00 | 5.7E+05 | |
| 39 | 6.3E+05 | 3.0E+00 | 8.8E-01 | 1.5E+03 | 3.8E+02 | 3.0E+04 | 2.3E+02 | 7.6E+06 | 7.6E+06 | 1.2E-01 | 6.9E+01 | 2.7E+02 | 2.7E+02 | 9.8E+01 | 3.3E+02 | 5.7E-01 | 2.0E+03 | 2.6E+00 | 1.7E+05 | |
| 40 | 2.7E+03 | | | 2.1E+01 | 1.9E+01 | 1.9E+01 | 1.6E-01 | 1.0E+04 | 1.0E+04 | 2.9E-05 | 2.7E+00 | 4.7E-05 | 4.7E-05 | 1.4E+00 | 1.5E-01 | 9.4E-06 | 6.9E-02 | 1.8E-03 | 5.5E+02 | |
| 41 | 1.8E+04 | 6.7E-02 | 8.1E-02 | 2.0E+02 | 3.5E+01 | 2.8E+03 | 2.0E+01 | 6.9E+05 | 6.9E+05 | 7.8E-03 | 1.0E+02 | 1.2E+01 | 1.2E+01 | 7.0E+00 | 2.4E+01 | 2.9E-02 | 6.2E+01 | 2.3E-01 | 2.3E+04 | |
| 42 | 2.4E+05 | | 2.0E-02 | 8.2E+03 | 3.4E+01 | 3.3E+03 | 2.2E+01 | 1.6E+06 | 1.6E+06 | 4.8E-03 | 3.7E+02 | 1.5E+00 | 1.5E+00 | 1.2E+03 | 2.0E+01 | 1.3E-03 | 1.1E+02 | 2.5E-01 | 8.6E+04 | |
| 43 | | | | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | |
| 46 | 2.5E+05 | | 4.3E-01 | 2.4E+02 | 2.5E+01 | 2.3E+03 | 2.1E+00 | 1.1E+05 | 1.1E+05 | 1.1E-03 | 3.6E+01 | 1.8E-02 | 1.8E-02 | 9.6E+01 | 3.9E+00 | 1.7E-04 | 3.1E-01 | 2.4E-02 | 7.7E+03 | |
| 47 | 1.8E+04 | | | | | | | 7.5E+01 | 7.5E+01 | | 2.2E+01 | | | | | | | | | 4.0E+05 |
| 48 | | | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | |
| 51 | 1.8E+05 | 1.7E-01 | 1.9E-01 | 2.7E+03 | 2.0E+02 | 1.6E+04 | 1.3E+02 | 4.1E+06 | 4.1E+06 | 7.6E-02 | 1.2E+03 | 4.7E+01 | 4.7E+01 | 2.0E+02 | 2.0E+02 | 1.1E-01 | 3.4E+02 | 1.5E+00 | 2.1E+05 | |
| Phase Totals | 2.9E+06 | 3.3E+00 | 3.5E+00 | 1.5E+05 | 2.5E+03 | 2.2E+05 | 1.5E+03 | 7.0E+07 | 7.0E+07 | 6.9E-01 | 2.0E+04 | 5.1E+02 | 4.7E+02 | 4.2E+04 | 2.0E+03 | 8.1E-01 | 3.9E+03 | 1.7E+01 | 4.2E+06 | |

Table A-1: Sludge Phase Radionuclide Inventory, Continued

| Tank | Ba-137m (Ci) | Ce-144 (Ci) | Pr-144 (Ci) | Pm-147 (Ci) | Eu-154 (Ci) | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) | |
|--------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| 1 | 3.0E+04 | 1.9E-11 | 1.9E-11 | 3.1E+01 | 5.3E+02 | 1.1E-02 | 1.1E-02 | 1.9E+00 | 1.8E-02 | 8.6E-04 | 1.5E-02 | 4.4E-01 | 6.4E-01 | 5.0E+02 | 1.3E+02 | 3.0E+01 | 1.2E+02 | 6.1E-03 | |
| 2 | 4.2E+03 | 1.8E-15 | 2.9E-14 | 8.4E-01 | 5.4E+01 | 1.6E-03 | 1.6E-03 | 2.5E+00 | 8.1E-04 | 1.3E-03 | 3.4E-02 | 2.0E-02 | 2.1E-01 | 2.0E+02 | 2.0E+01 | 4.4E+00 | 1.4E+01 | 9.1E-04 | |
| 3 | 3.6E+03 | 2.9E-14 | 2.9E-14 | 1.3E+00 | 5.3E+01 | 1.4E-03 | 1.4E-03 | 1.6E+00 | 2.0E-03 | 1.6E-02 | 1.6E-02 | 5.1E-02 | 3.8E-01 | 1.7E+02 | 2.4E+01 | 5.3E+00 | 2.0E+01 | 1.1E-03 | |
| 4 | 9.8E+02 | 1.7E-10 | 1.7E-10 | 3.4E+02 | 7.7E+02 | 4.9E-03 | 4.9E-03 | 1.9E+00 | 8.6E-04 | 1.2E-02 | 1.5E-02 | 1.5E-02 | 3.5E-01 | 6.8E+01 | 1.8E+02 | 2.6E+02 | 3.2E+02 | 3.3E-03 | |
| 5 | 2.7E+03 | 2.9E-09 | 2.9E-09 | 1.4E+02 | 1.8E+03 | 1.2E-02 | 1.2E-02 | 2.5E+00 | 1.3E-03 | 3.4E-02 | 3.4E-02 | 3.4E-02 | 4.9E-01 | 2.0E+02 | 2.8E+02 | 4.4E+02 | 6.4E+02 | 2.8E-02 | |
| 6 | 4.4E+04 | 2.2E+01 | 2.2E+01 | 6.0E+03 | 1.9E+03 | 5.4E-02 | 1.8E-02 | 1.6E+00 | 3.9E-02 | 1.6E-02 | 1.6E-02 | 1.1E-02 | 1.3E+00 | 4.4E+02 | 4.4E+02 | 1.4E+02 | 2.1E+03 | 5.0E-01 | |
| 7 | 7.2E+04 | -2.5E-05 | 3.3E-05 | 3.4E+02 | 7.0E+03 | 2.4E-01 | 3.9E-03 | 6.7E+00 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 2.5E-01 | 1.5E+00 | 2.6E+04 | 5.5E+02 | 2.7E+02 | 5.3E+03 | 3.7E-01 | |
| 8 | 4.5E+03 | 1.9E-15 | 1.9E-15 | 8.9E-01 | 5.8E+01 | 1.7E-03 | 1.7E-03 | 6.7E+00 | 6.7E-01 | 1.2E-03 | 2.9E-02 | 2.9E-02 | 2.0E-01 | 6.2E+00 | 1.4E+00 | 1.4E+00 | 4.3E+00 | 2.9E-04 | |
| 9 | 4.7E+02 | 4.7E-16 | 4.7E-16 | 1.1E-01 | 6.3E+00 | 1.8E-04 | 1.8E-04 | 2.3E-04 | 2.3E-04 | 2.3E-04 | 5.7E-03 | 5.7E-03 | 4.4E-02 | 3.2E+00 | 7.1E-01 | 2.3E+00 | 2.3E+00 | 1.5E-04 | |
| 10 | 2.9E+04 | 1.1E-06 | 1.1E-06 | 2.6E+02 | 3.8E+03 | 1.8E-03 | 1.8E-03 | 2.6E-01 | 4.0E-03 | 4.0E-03 | 3.3E-02 | 7.5E-03 | 1.4E-01 | 1.8E+04 | 1.9E+02 | 1.2E+02 | 5.1E+03 | 2.5E-01 | |
| 11 | 1.1E+04 | 2.3E-09 | 2.3E-09 | 3.3E+01 | 1.1E+03 | 4.1E-02 | 3.9E-04 | 1.2E+00 | 1.1E-01 | 1.1E-01 | 8.6E-03 | 2.1E-02 | 2.4E-01 | 4.0E+03 | 7.0E+01 | 3.9E+01 | 7.3E+02 | 5.6E-02 | |
| 12 | 3.4E+05 | 4.4E-08 | 4.4E-08 | 5.3E+02 | 2.2E+04 | 2.0E-01 | 5.0E-02 | 5.7E+00 | 1.6E-01 | 1.6E-01 | 8.6E-03 | 1.8E+00 | 1.5E-01 | 1.5E+03 | 6.0E+02 | 6.0E+02 | 7.9E+03 | 4.0E-01 | |
| 13 | 9.8E+03 | 5.5E-13 | 5.5E-13 | 4.1E+00 | 2.4E+02 | 1.1E-02 | 3.0E-03 | 3.7E-01 | 5.1E-02 | 4.1E-03 | 4.4E-03 | 7.9E-02 | 5.5E-01 | 2.3E+02 | 6.0E+01 | 2.0E+01 | 7.3E+01 | 3.6E-03 | |
| 14 | 3.1E+05 | 5.3E-07 | 5.3E-07 | 7.0E+02 | 2.9E+04 | 1.1E+00 | 1.1E+00 | 1.4E+01 | 3.8E+00 | 6.1E-02 | 3.6E-01 | 1.4E-03 | 3.6E+00 | 5.4E+04 | 1.2E+03 | 5.9E+02 | 9.1E+03 | 4.4E-01 | |
| 15 | 1.1E+04 | 2.3E-10 | 2.3E-10 | 4.4E-01 | 1.0E+00 | 3.2E-05 | 3.2E-05 | 5.0E-01 | 6.7E-03 | 6.7E-03 | 6.9E-03 | 1.7E-01 | 7.8E-02 | 6.5E+01 | 1.2E+02 | 2.8E+01 | 2.5E+02 | 2.9E-01 | |
| 16 | 6.0E+03 | 4.8E-07 | 4.8E-07 | 5.4E+00 | 1.9E+00 | 2.7E-05 | 2.7E-05 | 1.2E-01 | 1.6E-03 | 1.6E-03 | 3.7E-04 | 5.5E-03 | 1.4E-03 | 3.0E+00 | 3.9E+00 | 1.4E+00 | 7.0E+00 | 4.7E-02 | |
| 17 | 2.6E+03 | 3.1E-01 | 7.8E-07 | 3.3E+03 | 4.1E+02 | 5.7E-06 | 5.7E-06 | 1.8E-01 | 1.9E-01 | 3.0E-03 | 3.5E-02 | 1.8E-02 | 1.6E-01 | 9.1E+02 | 1.4E+01 | 4.8E+00 | 7.8E+01 | 5.3E-04 | |
| 18 | 4.8E+03 | 8.2E-07 | 8.2E-07 | 1.1E+02 | 8.2E+02 | 1.1E+00 | 1.1E+00 | 1.1E+00 | 3.9E-01 | 5.9E-03 | 6.4E-02 | 1.3E-01 | 2.3E-01 | 1.5E+03 | 1.4E+01 | 4.8E+00 | 7.8E+01 | 5.3E-04 | |
| 19 | 3.5E+02 | | | | | | | | | | | | | | | | | | |
| 20 | 9.6E+03 | 1.3E-01 | 1.3E-01 | 4.4E+03 | 7.0E+02 | 8.3E-03 | 8.3E-03 | 2.7E-08 | 8.6E-08 | 2.5E-02 | 3.3E-03 | 3.0E+00 | 7.9E-03 | 1.6E+04 | 2.5E+03 | 5.7E+02 | 9.9E+03 | 1.1E-01 | |
| 21 | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | |
| 23 | 1.7E+03 | 2.8E-04 | 2.8E-04 | 3.5E+02 | 4.9E+02 | 1.2E-01 | 1.2E-01 | 1.8E-02 | 3.2E-04 | 3.2E-04 | 3.4E-03 | 1.2E-05 | 8.2E-03 | 3.4E+03 | 3.1E+01 | 2.2E+01 | 1.7E+03 | 5.3E-02 | |
| 24 | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | |
| 30 | 4.3E+05 | 2.0E-02 | 2.0E-02 | 2.3E+04 | 7.7E+04 | 1.2E-01 | 1.2E-01 | 2.8E+00 | 4.0E-02 | 6.2E-01 | 6.2E-01 | 1.9E-02 | 1.1E+00 | 3.8E+05 | 3.5E+03 | 2.6E+03 | 1.3E+05 | 5.5E+00 | |
| 31 | 4.8E+05 | 9.9E+00 | 9.9E+00 | 3.8E+05 | 3.9E+04 | 3.8E+05 | 3.8E+05 | 2.1E-02 | 2.1E-02 | 2.2E-01 | 1.2E-01 | 3.1E+01 | 9.8E+00 | 1.6E+04 | 8.5E+03 | 1.5E+03 | 3.3E+04 | 1.1E-01 | |
| 32 | 4.2E+05 | 1.2E-01 | 1.2E-01 | 1.1E+05 | 2.7E+04 | 1.1E-01 | 1.1E-01 | 2.7E+00 | 4.7E-02 | 8.0E-01 | 8.0E-01 | 2.8E-02 | 9.8E-01 | 3.9E+05 | 3.3E+03 | 2.9E+02 | 4.5E+03 | 6.0E-02 | |
| 33 | 3.8E+05 | 3.0E-02 | 3.0E-02 | 2.6E+04 | 8.0E+04 | 1.3E+01 | 1.3E+01 | 7.3E-03 | 7.3E-03 | 1.4E-04 | 2.6E-03 | 4.6E-05 | 2.0E-03 | 6.0E+02 | 4.9E+00 | 3.9E+00 | 1.9E+02 | 8.4E-03 | |
| 34 | 4.2E+02 | 7.9E-08 | 7.9E-08 | 1.3E+01 | 7.9E+01 | 1.3E+01 | 1.3E+01 | 7.3E-03 | 7.3E-03 | 1.4E-04 | 2.6E-03 | 4.6E-05 | 2.0E-03 | 6.0E+02 | 4.9E+00 | 3.9E+00 | 1.9E+02 | 8.4E-03 | |
| 35 | 5.4E+05 | 4.3E+01 | 4.3E+01 | 2.6E+05 | 1.7E+05 | 2.2E+01 | 2.2E+01 | 2.2E+01 | 3.4E-01 | 3.4E-01 | 3.7E+00 | 4.0E-02 | 1.3E+01 | 6.1E+05 | 7.9E+03 | 4.9E+03 | 4.2E+05 | 1.0E+01 | |
| 36 | 1.6E+05 | 4.3E+02 | 4.3E+02 | 9.3E+03 | 8.5E+03 | 7.3E-01 | 7.3E-01 | 2.7E+01 | 3.2E-01 | 3.2E-01 | 2.4E-01 | 7.4E+00 | 1.7E+01 | 7.8E+04 | 6.6E+03 | 2.4E+03 | 3.8E+04 | 7.4E+00 | |
| 37 | 5.2E+02 | 1.8E-06 | 1.8E-06 | 3.6E+01 | 1.2E+02 | 1.2E-02 | 1.2E-02 | 1.2E-02 | 1.4E-04 | 1.4E-04 | 3.5E-03 | 9.8E-06 | 3.7E-02 | 1.9E+02 | 6.6E+03 | 2.4E+03 | 3.8E+04 | 7.4E+00 | |
| 38 | 2.2E+04 | 1.9E+01 | 1.9E+01 | 5.6E+03 | 1.8E+03 | 4.4E-03 | 4.4E-03 | 1.8E+00 | 1.9E-02 | 1.9E-02 | 6.5E-01 | 3.7E-01 | 6.9E-01 | 4.5E-02 | 3.3E+02 | 1.7E+02 | 2.5E+03 | 3.1E-01 | |
| 39 | 8.1E+04 | 3.7E-01 | 3.7E-01 | 3.3E+04 | 2.7E+04 | 3.4E+03 | 3.4E+03 | 3.4E+00 | 4.7E-02 | 4.7E-02 | 6.5E-01 | 3.8E-03 | 3.6E+00 | 2.8E+02 | 2.8E+02 | 2.8E+02 | 5.3E+04 | 4.1E+00 | |
| 40 | | | | | | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | |
| 47 | 7.3E+03 | 3.4E-04 | 3.4E-04 | 1.6E+03 | 4.7E+02 | 6.5E-03 | 6.5E-03 | 1.3E+00 | 1.9E-02 | 1.9E-02 | 1.6E+04 | 1.5E+00 | 2.1E-01 | 1.6E+04 | 2.3E+03 | 5.1E+02 | 7.3E+03 | 1.0E-01 | |
| 48 | 3.8E+05 | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | |
| 51 | 2.0E+05 | 7.2E+01 | 7.2E+01 | 2.1E+04 | 1.2E+04 | 6.8E-02 | 6.8E-02 | 2.1E+01 | 7.1E+00 | 1.1E-01 | 8.5E-02 | 3.2E+00 | 4.7E+00 | 3.1E+04 | 1.2E+03 | 4.5E+02 | 1.0E+04 | 1.8E+00 | |
| Phase Totals | 4.0E+06 | 6.2E+02 | 6.0E+02 | 9.7E+05 | 5.2E+05 | 5.2E-01 | 5.2E-01 | 2.2E+02 | 8.5E+01 | 1.6E+00 | 7.5E+00 | 5.9E+01 | 8.2E+01 | 1.8E+06 | 4.3E+04 | 1.9E+04 | 9.0E+05 | 3.8E+01 | |

Table A-1: Sludge Phase Radionuclide Inventory, Continued

| Tank | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Ni-22 (Ci) | Al-26 (Ci) | Te-125m (Ci) | Sb-126 (Ci) | Sb-126m (Ci) | Sm-151 (Ci) | Eu-152 (Ci) | Eu-155 (Ci) | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) |
|--------------|-------------|--------------|-------------|-------------|------------|------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 2.0E+03 | 2.4E+00 | 2.8E-01 | 4.3E-07 | 7.7E-02 | 4.3E-02 | 5.8E-01 | 3.9E+00 | 2.8E+01 | 3.2E+04 | 1.6E+02 | 1.8E+03 | 4.0E+06 | 4.0E+06 | 1.9E-07 | 1.9E-07 | 1.1E-05 | 1.1E-05 |
| 2 | 3.0E+02 | 3.5E-01 | 3.5E-02 | 6.6E-08 | 1.1E-02 | 5.9E-03 | 1.7E-02 | 6.0E-01 | 4.3E+00 | 4.3E+03 | 2.2E+01 | 2.5E+02 | 1.9E-07 | 1.9E-07 | 4.6E-07 | 4.6E-07 | 5.1E-07 | 5.1E-07 |
| 3 | 2.5E+02 | 3.0E-01 | 3.2E-02 | 5.5E-08 | 9.3E-03 | 5.2E-03 | 2.3E-02 | 5.0E-01 | 3.6E+00 | 3.9E+03 | 1.9E+01 | 2.2E+02 | 4.6E-07 | 4.6E-07 | | | 1.3E-06 | 1.3E-06 |
| 4 | 1.6E+03 | 4.2E+00 | 1.0E+02 | 1.4E+01 | 2.5E-03 | 1.4E-03 | 6.2E-01 | 1.7E+00 | 1.2E+01 | 1.1E+03 | 5.1E+00 | 5.9E+01 | 4.2E-06 | 4.2E-06 | 5.2E-04 | 5.2E-04 | 5.2E-04 | 5.2E-04 |
| 5 | 5.0E+03 | 9.1E+00 | 3.5E+03 | 3.3E+01 | 6.9E-03 | 3.9E-03 | 2.4E+00 | 4.2E+00 | 3.0E+01 | 2.9E+03 | 1.4E+01 | 1.7E+02 | 3.0E-07 | 3.0E-07 | 6.9E-04 | 6.9E-04 | 8.2E-07 | 8.2E-07 |
| 6 | 2.9E+03 | 4.1E+00 | 2.8E+03 | 4.6E+00 | 1.1E-01 | 6.2E-02 | 1.1E+01 | 7.0E+00 | 5.0E+01 | 4.7E+04 | 2.3E+02 | 2.6E+03 | 5.4E-02 | 5.4E-02 | 4.5E-04 | 4.5E-04 | 2.5E-05 | 2.5E-05 |
| 7 | 3.7E+03 | 3.2E+00 | 6.9E+02 | 3.0E-02 | 1.8E-01 | 1.0E-01 | 3.7E+00 | 4.7E+00 | 3.3E+01 | 7.8E+04 | 3.8E+02 | 4.4E+03 | 2.4E-01 | 2.4E-01 | 1.9E-02 | 1.9E-02 | 1.9E-04 | 1.9E-04 |
| 8 | 3.2E+02 | 3.8E-01 | 3.8E-02 | 7.1E-08 | 1.8E-02 | 6.8E-03 | 1.8E-02 | 6.5E-01 | 4.6E+01 | 4.8E+03 | 2.3E+01 | 2.7E+02 | 7.5E-07 | 7.5E-07 | 3.8E-06 | 3.8E-06 | 7.5E-07 | 7.5E-07 |
| 9 | 3.3E+01 | 3.9E-02 | 4.0E-03 | 7.2E-09 | 1.2E-03 | 6.6E-04 | 2.3E-03 | 6.6E-02 | 4.7E-01 | 5.0E+02 | 2.4E+00 | 2.8E+01 | 5.2E-08 | 5.2E-08 | 2.0E-07 | 2.0E-07 | 1.4E-07 | 1.4E-07 |
| 10 | 1.7E+03 | 1.0E+00 | 1.1E+02 | 6.8E-04 | 7.4E-02 | 4.1E-02 | 2.6E+00 | 1.5E+00 | 1.0E+01 | 3.1E+04 | 1.5E+02 | 1.8E+03 | 1.8E-03 | 1.8E-03 | 7.4E-04 | 7.4E-04 | 5.9E-05 | 5.9E-05 |
| 11 | 5.4E+02 | 4.6E-01 | 6.5E+01 | 2.5E-04 | 2.8E-02 | 1.5E-02 | 3.6E-01 | 6.8E-01 | 4.9E+00 | 1.2E+04 | 5.7E+01 | 6.6E+02 | 4.1E-02 | 4.1E-02 | 3.3E-03 | 3.3E-03 | 3.0E-05 | 3.0E-05 |
| 12 | 1.8E+04 | 1.9E+01 | 2.6E+03 | 5.6E-03 | 8.7E-01 | 4.9E-01 | 6.3E+00 | 3.1E+01 | 2.2E+02 | 3.7E+05 | 1.8E+03 | 2.1E+04 | 2.0E-01 | 2.0E-01 | 1.2E-01 | 1.2E-01 | 1.6E-03 | 1.6E-03 |
| 13 | 6.3E+02 | 7.3E-01 | 2.8E-01 | 4.9E-05 | 2.5E-02 | 1.4E-02 | 7.4E-02 | 1.2E+00 | 8.6E+00 | 1.1E+04 | 5.1E+01 | 5.9E+02 | 1.1E-02 | 1.1E-02 | 1.4E-05 | 1.4E-05 | 2.6E-06 | 2.6E-06 |
| 14 | 1.3E+04 | 1.2E+01 | 8.7E+02 | 8.3E-03 | 7.9E-01 | 4.4E-01 | 7.6E+00 | 1.8E+01 | 1.3E+02 | 3.3E+02 | 1.6E+03 | 1.9E+04 | 1.1E+00 | 1.1E+00 | 3.9E-02 | 3.9E-02 | 1.0E-03 | 1.0E-03 |
| 15 | 7.4E+01 | 4.5E+01 | 3.4E-10 | 2.7E-02 | 1.5E-02 | 7.4E-03 | 3.1E-03 | 2.2E-02 | 2.2E-02 | 1.1E+04 | 5.6E+01 | 6.5E+02 | 1.1E-06 | 1.1E-06 | 1.5E-06 | 1.5E-06 | 4.2E-06 | 4.2E-06 |
| 16 | 2.2E+00 | 4.0E-04 | 2.5E-10 | 1.5E-02 | 8.5E-03 | 8.2E-02 | 2.3E-03 | 1.7E-02 | 1.7E-02 | 6.4E+03 | 3.1E+01 | 3.6E+02 | 1.4E-08 | 1.4E-08 | 3.7E-08 | 3.7E-08 | 1.0E-07 | 1.0E-07 |
| 17 | 5.9E+01 | 4.0E-01 | 1.4E+02 | 1.8E-02 | 6.5E-03 | 6.6E-01 | 1.0E-01 | 7.1E-01 | 7.1E-01 | 2.7E+03 | 1.3E+01 | 1.6E+02 | 4.3E-07 | 4.3E-07 | 6.9E-07 | 6.9E-07 | 5.3E-05 | 5.3E-05 |
| 18 | 9.3E+01 | 1.1E-01 | 7.8E-01 | 9.9E-05 | 1.2E-02 | 6.8E-03 | 1.1E+00 | 2.1E-01 | 1.5E+00 | 5.1E+03 | 2.5E+01 | 2.9E+02 | 8.7E-07 | 8.7E-07 | 1.3E-06 | 1.3E-06 | 1.1E-04 | 1.1E-04 |
| 19 | 6.9E+02 | 1.3E-01 | 1.3E-01 | 7.6E-08 | 2.5E-02 | 1.4E-02 | 6.3E+01 | 6.9E-01 | 4.9E+00 | 1.0E+04 | 5.0E+01 | 5.9E+02 | 1.9E-13 | 1.9E-13 | 5.8E-06 | 5.8E-06 | 2.4E-11 | 2.4E-11 |
| 20 | 1.7E+02 | 4.6E-02 | 3.2E-01 | 2.8E-05 | 4.3E-03 | 2.4E-03 | 3.2E+00 | 6.0E-02 | 4.3E-01 | 1.8E+03 | 8.8E+00 | 1.0E+02 | 4.1E-08 | 4.1E-08 | 7.4E-08 | 7.4E-08 | 5.0E-06 | 5.0E-06 |
| 21 | 2.8E+04 | 1.4E+01 | 7.1E+01 | 9.0E-03 | 1.1E+00 | 6.1E-01 | 2.1E+02 | 1.9E+01 | 1.4E+02 | 4.6E+05 | 2.2E+03 | 2.6E+04 | 9.1E-06 | 9.1E-06 | 7.6E-04 | 7.6E-04 | 2.5E-05 | 2.5E-05 |
| 22 | 2.6E+04 | 2.3E+01 | 1.4E+03 | 6.2E-02 | 1.2E+00 | 6.8E-01 | 5.3E+03 | 3.3E+01 | 2.4E+02 | 5.2E+05 | 2.5E+03 | 2.9E+04 | 4.8E-08 | 4.8E-08 | 5.0E-05 | 5.0E-05 | 1.4E-04 | 1.4E-04 |
| 23 | 1.5E+05 | 2.1E+01 | 5.5E+00 | 3.4E-06 | 1.1E+00 | 5.9E-01 | 1.6E+03 | 3.1E+01 | 2.2E+02 | 4.5E+05 | 2.2E+03 | 2.5E+04 | 2.6E-05 | 2.6E-05 | 1.6E-09 | 1.6E-09 | 5.9E-06 | 5.9E-06 |
| 24 | 2.6E+04 | 1.2E+01 | 6.6E+01 | 7.4E-03 | 9.7E-01 | 5.4E-01 | 2.5E+02 | 1.6E+01 | 1.1E+02 | 4.1E+05 | 2.0E+03 | 2.3E+04 | 6.1E-06 | 6.1E-06 | 2.6E-05 | 2.6E-05 | 7.2E-05 | 7.2E-05 |
| 25 | 3.5E+01 | 1.3E-02 | 7.1E-02 | 8.5E-06 | 1.1E-03 | 6.0E-04 | 1.3E-01 | 1.8E-02 | 1.3E-01 | 4.5E+02 | 2.2E+00 | 2.6E+01 | 1.6E-08 | 1.6E-08 | 3.2E-08 | 3.2E-08 | 7.5E-04 | 7.5E-04 |
| 26 | 3.8E+04 | 1.4E+01 | 1.6E+05 | 1.8E+01 | 1.4E+00 | 7.6E-01 | 2.2E+03 | 1.9E+01 | 1.3E+02 | 5.8E+05 | 2.8E+03 | 3.3E+04 | 7.8E-05 | 7.8E-05 | 6.0E-03 | 6.0E-03 | 2.2E-04 | 2.2E-04 |
| 27 | 2.1E+04 | 4.6E+01 | 9.9E+03 | 6.6E+00 | 4.0E-01 | 2.2E-01 | 2.4E+01 | 4.7E+01 | 3.3E+02 | 1.7E+05 | 8.2E+02 | 9.6E+03 | 7.3E-01 | 7.3E-01 | 7.3E-05 | 7.3E-05 | 2.0E-04 | 2.0E-04 |
| 28 | 9.1E+00 | 1.1E-02 | 9.2E-02 | 9.7E-06 | 1.3E-03 | 7.4E-04 | 3.5E-01 | 2.1E-02 | 1.5E-01 | 5.6E+02 | 2.7E+00 | 3.2E+01 | 3.3E-08 | 3.3E-08 | 3.4E-06 | 3.4E-06 | 9.1E-08 | 9.1E-08 |
| 29 | 1.7E+03 | 1.0E+00 | 5.2E+02 | 4.4E-02 | 5.6E-02 | 3.1E-02 | 1.7E+00 | 3.3E+00 | 2.4E+01 | 2.4E+04 | 1.1E+02 | 1.3E+03 | 1.2E-01 | 1.2E-01 | 4.9E-04 | 4.9E-04 | 1.2E-05 | 1.2E-05 |
| 30 | 3.2E+03 | 1.9E+00 | 1.6E+01 | 1.3E-03 | 2.1E-01 | 1.2E-01 | 2.9E+02 | 2.8E+00 | 2.0E+01 | 8.7E+04 | 4.2E+02 | 4.9E+03 | 7.7E-06 | 7.7E-06 | 1.1E-05 | 1.1E-05 | 9.4E-04 | 9.4E-04 |
| 31 | 6.5E+02 | 9.5E-02 | 6.0E-08 | 6.0E-08 | 1.9E-02 | 1.0E-02 | 2.4E+01 | 5.5E-01 | 3.9E+00 | 7.9E+03 | 3.8E+01 | 4.4E+02 | 4.3E-06 | 4.3E-06 | 1.6E-03 | 1.6E-03 | 3.5E-04 | 3.5E-04 |
| 32 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 33 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 34 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 35 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 36 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 37 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 38 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 39 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 40 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 41 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 42 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 43 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 44 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 45 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 46 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 47 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 48 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 49 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| 50 | 1.1E+04 | 2.0E+02 | 2.0E+05 | 1.4E+04 | 3.1E+01 | 2.8E-01 | 4.9E+01 | 2.8E+01 | 2.0E+02 | 2.1E+05 | 1.0E+03 | 1.2E+04 | 3.4E-01 | 3.4E-01 | 2.5E-05 | 2.5E-05 | 1.9E-03 | 1.9E-03 |
| 51 | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| Phase Totals | 3.6E+05 | 2.1E+02 | 2.0E+05 | 1.1E+02 | 1.0E+01 | 5.7E+00 | 1.0E+04 | 2.8E+02 | 2.0E+03 | 4.3E+06 | 2.1E+04 | 2.4E+05 | 2.9E+00 | 2.9E+00 | 3.7E-04 | 3.7E-04 | 2.4E-02 | 2.4E-02 |
| </ | | | | | | | | | | | | | | | | | | |

Table A-1: Sludge Phase Radionuclide Inventory, Continued

| Tank | Sludge Volume, gal | Pu-244 (Ci) | Am-243 (Ci) | Cm-242 (Ci) | Cm-243 (Ci) | Cm-247 (Ci) | Cm-248 (Ci) | Bk-249 (Ci) | Cf-249 (Ci) | Cf-251 (Ci) | Cf-252 (Ci) | Sludge_ action | Sludge_ Interstitial_Fr |
|--------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|----------------------------|
| 1 | 7.0E+03 | 2.8E-05 | 7.6E+00 | 1.9E+00 | 3.1E-01 | 5.9E-11 | 6.2E-11 | 4.5E-18 | 3.4E-10 | 1.2E-11 | 3.8E-13 | 0.70 | |
| 2 | 4.1E+03 | 4.2E-06 | 1.0E+00 | 2.9E-01 | 4.2E-02 | 8.2E-12 | 8.5E-12 | 6.2E-19 | 4.7E-11 | 1.6E-12 | 5.2E-14 | 0.70 | |
| 3 | 4.1E+03 | 5.0E-06 | 9.1E-01 | 2.5E-01 | 3.7E-02 | 7.1E-12 | 7.4E-12 | 5.4E-19 | 4.1E-11 | 1.4E-12 | 4.6E-14 | 0.70 | |
| 4 | 8.0E+03 | | | | | | | | | | | 0.70 | |
| 5 | 1.9E+03 | 1.5E-05 | 2.5E-01 | 3.4E+00 | 1.0E-02 | 1.9E-12 | 2.0E-12 | 1.5E-19 | 1.1E-11 | 3.8E-13 | 1.2E-14 | 0.70 | |
| 6 | 2.0E+03 | 1.3E-04 | 6.8E-01 | 7.5E+00 | 2.8E-02 | 5.3E-12 | 5.6E-12 | 4.1E-19 | 3.1E-11 | 1.1E-12 | 3.4E-14 | 0.70 | |
| 7 | 2.5E+04 | 2.3E-03 | 1.1E+01 | 3.4E+00 | 4.4E-01 | 8.5E-11 | 8.9E-11 | 6.5E-18 | 4.9E-10 | 1.7E-11 | 5.5E-13 | 0.70 | |
| 8 | 1.8E+04 | 1.7E-03 | 1.8E+01 | 2.6E+00 | 7.3E-01 | 1.4E-10 | 1.5E-10 | 1.1E-17 | 8.2E-10 | 2.8E-11 | 9.1E-13 | 0.70 | |
| 9 | 2.7E+03 | 1.3E-06 | 1.1E+00 | 3.1E-01 | 4.6E-02 | 8.8E-12 | 9.2E-12 | 6.7E-19 | 5.1E-11 | 1.7E-12 | 5.6E-14 | 0.70 | |
| 10 | 2.7E+03 | 6.6E-07 | 1.2E-01 | 3.2E-02 | 4.7E-03 | 9.1E-13 | 9.5E-13 | 7.0E-20 | 5.3E-12 | 1.8E-13 | 5.9E-15 | 0.70 | |
| 11 | 9.5E+03 | 1.8E-03 | 7.3E+00 | 8.4E-01 | 2.9E-01 | 5.7E-11 | 5.9E-11 | 4.3E-18 | 3.3E-10 | 1.1E-11 | 3.6E-13 | 0.70 | |
| 12 | 1.4E+04 | 2.6E-04 | 2.7E+00 | 3.8E-01 | 1.1E-01 | 2.1E-11 | 2.2E-11 | 1.6E-18 | 1.2E-10 | 4.2E-12 | 1.4E-13 | 0.70 | |
| 13 | 2.8E+05 | 1.8E-03 | 8.6E+01 | 1.5E+01 | 3.5E+00 | 6.7E-10 | 7.0E-10 | 5.1E-17 | 3.9E-09 | 1.3E-10 | 4.3E-12 | 0.70 | |
| 14 | 2.8E+04 | 1.6E-05 | 2.5E+00 | 6.0E-01 | 1.0E-01 | 1.9E-11 | 2.0E-11 | 1.5E-18 | 1.1E-10 | 3.8E-12 | 1.2E-13 | 0.70 | |
| 15 | 1.6E+05 | 2.0E-03 | 7.7E+01 | 1.0E+01 | 3.1E+00 | 6.1E-10 | 6.3E-10 | 4.6E-17 | 3.5E-09 | 1.2E-10 | 3.9E-12 | 0.48 | |
| 16 | | | | | | | | | | | | 0.70 | |
| 18 | 4.0E+03 | 1.3E-03 | 2.7E+00 | 1.1E-01 | 1.1E-01 | 2.1E-11 | 2.2E-11 | 1.6E-18 | 1.2E-10 | 4.1E-12 | 1.3E-13 | 0.70 | |
| 19 | 2.0E+03 | 2.2E-04 | 1.5E+00 | 6.1E-02 | 6.1E-02 | 1.2E-11 | 1.2E-11 | 9.0E-19 | 6.8E-11 | 2.3E-12 | 7.5E-14 | 0.70 | |
| 21 | 5.3E+04 | 2.4E-06 | 6.4E-01 | 3.2E-01 | 2.6E-02 | 5.0E-12 | 5.2E-12 | 3.8E-19 | 2.9E-11 | 9.9E-13 | 3.2E-14 | 0.70 | |
| 22 | 7.2E+04 | 1.2E+00 | 9.0E-02 | 9.0E-02 | 4.8E-02 | 9.3E-12 | 9.7E-12 | 7.1E-19 | 5.4E-11 | 1.8E-12 | 6.0E-14 | 0.70 | |
| 23 | 1.3E+05 | 8.7E-02 | | | 3.5E-03 | 6.8E-13 | 7.1E-13 | 5.2E-20 | 3.9E-12 | 1.3E-13 | 4.4E-15 | 0.70 | |
| 24 | 3.5E+03 | | | | | | | | | | | 0.70 | |
| 25 | | | | | | | | | | | | 0.70 | |
| 26 | 2.9E+05 | 5.2E-04 | 2.4E+00 | 9.8E-02 | 9.8E-02 | 1.9E-11 | 2.0E-11 | 1.4E-18 | 1.1E-10 | 3.7E-12 | 1.2E-13 | 0.70 | |
| 27 | 3.9E+03 | | | | | | | | | | | 0.70 | |
| 28 | | | | | | | | | | | | 0.70 | |
| 29 | | | | | | | | | | | | 0.70 | |
| 30 | | | | | | | | | | | | 0.70 | |
| 31 | 6.2E+02 | 2.4E-04 | 4.2E-01 | 3.7E-02 | 1.7E-02 | 3.3E-12 | 3.4E-12 | 2.5E-19 | 1.9E-11 | 6.5E-13 | 2.1E-14 | 0.70 | |
| 32 | 1.0E+05 | 2.5E-02 | 1.1E+02 | 1.1E+01 | 4.4E+00 | 8.4E-10 | 8.8E-10 | 6.4E-17 | 4.9E-09 | 1.7E-10 | 5.4E-12 | 0.70 | |
| 33 | 7.4E+04 | 5.2E-04 | 1.2E+02 | 1.9E+01 | 4.9E+00 | 9.4E-10 | 9.8E-10 | 7.2E-17 | 5.5E-09 | 1.9E-10 | 6.1E-12 | 0.70 | |
| 34 | 1.3E+04 | 2.8E-04 | 1.0E+02 | 1.7E+01 | 4.2E+00 | 8.1E-10 | 8.5E-10 | 6.2E-17 | 4.7E-09 | 1.6E-10 | 5.2E-12 | 0.70 | |
| 35 | 8.9E+04 | 2.6E-02 | 9.6E+01 | 9.5E+00 | 3.9E+00 | 7.5E-10 | 7.8E-10 | 5.7E-17 | 4.3E-09 | 1.5E-10 | 4.8E-12 | 0.70 | |
| 36 | 1.9E+02 | 3.8E-05 | 1.1E-01 | 1.1E-02 | 4.3E-03 | 8.3E-13 | 8.6E-13 | 6.3E-20 | 4.8E-12 | 1.6E-13 | 5.3E-15 | 0.70 | |
| 37 | | | | | | | | | | | | 0.70 | |
| 38 | | | | | | | | | | | | 0.70 | |
| 39 | 1.3E+05 | 4.8E-02 | 1.3E+02 | 1.2E+01 | 5.5E+00 | 1.1E-09 | 1.1E-09 | 8.0E-17 | 6.1E-09 | 2.1E-10 | 6.7E-12 | 0.70 | |
| 40 | 6.3E+05 | 3.4E-02 | 3.9E+01 | 3.8E+01 | 1.6E+00 | 3.1E-10 | 3.2E-10 | 2.3E-17 | 1.8E-09 | 6.1E-11 | 2.0E-12 | 0.70 | |
| 41 | 2.7E+03 | 1.4E-03 | 1.3E-01 | 8.9E-03 | 5.3E-03 | 1.0E-12 | 1.1E-12 | 7.8E-20 | 5.9E-12 | 2.0E-13 | 6.5E-15 | 0.70 | |
| 42 | 1.8E+04 | 1.4E-03 | 5.5E+00 | 8.2E-01 | 2.2E-01 | 4.3E-11 | 4.5E-11 | 3.3E-18 | 2.5E-10 | 8.6E-12 | 2.8E-13 | 0.80 | |
| 43 | 2.4E+05 | 1.9E-02 | 2.0E+01 | 1.5E+00 | 8.3E-01 | 1.6E-10 | 1.7E-10 | 1.2E-17 | 9.2E-10 | 3.1E-11 | 1.0E-12 | 0.70 | |
| 44 | | | | | | | | | | | | 0.70 | |
| 45 | | | | | | | | | | | | 0.70 | |
| 46 | | | | | | | | | | | | 0.70 | |
| 47 | 2.5E+05 | 4.8E-04 | 1.8E+00 | 9.6E+01 | 7.4E-02 | 1.4E-11 | 1.5E-11 | 1.1E-18 | 8.3E-11 | 2.8E-12 | 9.2E-14 | 0.70 | |
| 48 | 1.8E+04 | | | | 3.9E+00 | 7.5E-10 | 7.8E-10 | 5.7E-17 | 4.3E-09 | 1.5E-10 | 4.8E-12 | 0.70 | |
| 49 | | | | | | | | | | | | 0.70 | |
| 50 | | | | | | | | | | | | 0.70 | |
| 51 | 1.8E+05 | 8.1E-03 | 5.0E+01 | 1.6E+01 | 2.0E+00 | 3.9E-10 | 4.1E-10 | 3.0E-17 | 2.3E-09 | 7.7E-11 | 2.5E-12 | 0.80 | |
| Phase Totals | 2.9E+06 | 1.7E-01 | 1.0E+03 | 1.7E+02 | 4.1E+01 | 7.8E-09 | 8.2E-09 | 6.0E-16 | 4.5E-08 | 1.5E-09 | 5.0E-11 | | |

Table A-2: Salt Phase Radionuclide Inventory

| Tank | Salt Volume, gal. | C-14 (Ci) | Sr-90 (Ci) | Y-90 (Ci) | Cs-137 (Ci) | Ba-137m (Ci) | U-235 (Ci) | U-238 (Ci) | Pu-238 (Ci) | Pu-239 (Ci) | Na-22 (Ci) | Al-26 (Ci) | Ac-227 (Ci) | Pa-231 (Ci) |
|---------------------|-------------------|-----------|------------|-----------|-------------|--------------|------------|------------|-------------|-------------|------------|------------|-------------|-------------|
| 1 | 4.8E+05 | 1.1E+01 | 1.7E+05 | 1.7E+05 | 7.6E+03 | 7.2E+03 | 6.7E-03 | 1.5E-01 | 2.2E+03 | 7.3E+01 | 8.4E+01 | 3.3E-01 | 1.5E-06 | 4.3E-06 |
| 2 | 5.4E+05 | 1.2E+01 | 1.9E+05 | 1.9E+05 | 8.5E+03 | 8.1E+03 | 7.5E-03 | 1.7E-01 | 2.4E+03 | 8.1E+01 | 9.3E+01 | 3.7E-01 | 1.7E-06 | 4.8E-06 |
| 3 | 5.4E+05 | 1.2E+01 | 1.9E+05 | 1.9E+05 | 8.5E+03 | 8.1E+03 | 7.5E-03 | 1.7E-01 | 2.4E+03 | 8.1E+01 | 9.3E+01 | 3.7E-01 | 1.7E-06 | 4.8E-06 |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | 5.3E+05 | 1.2E+01 | 1.9E+05 | 1.9E+05 | 8.5E+03 | 8.0E+03 | 7.5E-03 | 1.7E-01 | 2.4E+03 | 8.1E+01 | 9.3E+01 | 3.7E-01 | 1.7E-06 | 4.7E-06 |
| 9 | 2.1E+05 | 4.8E+00 | 7.5E+04 | 7.5E+04 | 3.4E+03 | 3.2E+03 | 3.0E-03 | 6.6E-02 | 9.6E+02 | 3.2E+01 | 3.7E+01 | 1.5E-01 | 6.8E-07 | 1.9E-06 |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | 1.3E+05 | 3.0E+00 | 4.6E+04 | 4.6E+04 | 2.1E+03 | 1.9E+03 | 1.8E-03 | 4.1E-02 | 5.9E+02 | 2.0E+01 | 2.3E+01 | 8.9E-02 | 4.1E-07 | 1.1E-06 |
| 15 | 7.6E+04 | 1.7E+00 | 2.7E+04 | 2.7E+04 | 1.2E+03 | 1.1E+03 | 1.1E-03 | 2.4E-02 | 3.5E+02 | 1.2E+01 | 1.3E+01 | 5.3E-02 | 2.4E-07 | 6.8E-07 |
| 16 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | 5.0E+05 | 1.1E+01 | 1.8E+05 | 1.8E+05 | 8.0E+03 | 7.6E+03 | 7.0E-03 | 1.6E-01 | 2.3E+03 | 7.6E+01 | 8.8E+01 | 3.5E-01 | 1.6E-06 | 4.5E-06 |
| 26 | | | | | | | | | | | | | | |
| 27 | 1.2E+06 | 2.6E+01 | 4.1E+05 | 4.1E+05 | 1.8E+04 | 1.7E+04 | 1.6E-02 | 3.6E-01 | 5.3E+03 | 1.8E+02 | 2.0E+02 | 8.0E-01 | 3.7E-06 | 1.0E-05 |
| 28 | 1.0E+06 | 2.4E+01 | 3.7E+05 | 3.7E+05 | 1.6E+04 | 1.5E+04 | 1.4E-02 | 3.2E-01 | 4.7E+03 | 1.6E+02 | 1.8E+02 | 7.1E-01 | 3.3E-06 | 9.1E-06 |
| 29 | 1.0E+06 | 2.3E+01 | 3.6E+05 | 3.6E+05 | 1.6E+04 | 1.5E+04 | 1.4E-02 | 3.2E-01 | 4.6E+03 | 1.5E+02 | 1.8E+02 | 7.1E-01 | 3.3E-06 | 9.1E-06 |
| 30 | 3.0E+05 | 6.8E+00 | 1.1E+05 | 1.1E+05 | 4.7E+03 | 4.5E+03 | 4.2E-03 | 9.4E-02 | 1.4E+03 | 4.5E+01 | 5.2E+01 | 2.1E-01 | 9.5E-07 | 2.6E-06 |
| 31 | 1.1E+06 | 2.6E+01 | 4.1E+05 | 4.1E+05 | 1.8E+04 | 1.7E+04 | 1.6E-02 | 3.6E-01 | 5.2E+03 | 1.7E+02 | 2.0E+02 | 7.9E-01 | 3.7E-06 | 1.0E-05 |
| 32 | 1.4E+05 | 3.1E+00 | 4.9E+04 | 4.9E+04 | 2.2E+03 | 2.1E+03 | 1.9E-03 | 4.3E-02 | 6.2E+02 | 2.1E+01 | 2.4E+01 | 9.5E-02 | 4.4E-07 | 1.2E-06 |
| 33 | 2.9E+05 | 6.7E+00 | 1.0E+05 | 1.0E+05 | 4.7E+03 | 4.4E+03 | 4.1E-03 | 9.2E-02 | 1.3E+03 | 4.4E+01 | 5.1E+01 | 2.0E-01 | 9.4E-07 | 2.6E-06 |
| 34 | 1.9E+05 | 4.4E+00 | 6.8E+04 | 6.8E+04 | 3.0E+04 | 2.9E+03 | 2.7E-03 | 6.0E-02 | 8.7E+02 | 2.9E+01 | 3.3E+01 | 1.3E-01 | 6.1E-07 | 1.7E-06 |
| 35 | | | | | | | | | | | | | | |
| 36 | 1.0E+06 | 2.4E+01 | 3.7E+05 | 3.7E+05 | 1.6E+04 | 1.6E+04 | 1.5E-02 | 3.3E-01 | 4.7E+03 | 1.6E+02 | 1.8E+02 | 7.2E-01 | 3.3E-06 | 9.2E-06 |
| 37 | 1.1E+06 | 2.4E+01 | 3.8E+05 | 3.8E+05 | 1.7E+04 | 1.6E+04 | 1.5E-02 | 3.4E-01 | 4.9E+03 | 1.6E+02 | 1.9E+02 | 7.4E-01 | 3.4E-06 | 9.5E-06 |
| 38 | 8.1E+05 | 1.8E+01 | 2.9E+05 | 2.9E+05 | 1.3E+04 | 1.2E+04 | 1.1E-02 | 2.5E-01 | 3.7E+03 | 1.2E+02 | 1.4E+02 | 5.6E-01 | 2.6E-06 | 7.2E-06 |
| 39 | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |
| 41 | 5.9E+05 | 1.4E+01 | 2.1E+05 | 2.1E+05 | 9.4E+03 | 8.9E+03 | 8.3E-03 | 1.9E-01 | 2.7E+03 | 9.0E+01 | 1.0E+02 | 4.1E-01 | 1.9E-06 | 5.3E-06 |
| 42 | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | |
| 44 | 1.0E+06 | 2.3E+01 | 3.6E+05 | 3.6E+05 | 1.6E+04 | 1.5E+04 | 1.4E-02 | 3.2E-01 | 4.6E+03 | 1.5E+02 | 1.8E+02 | 7.0E-01 | 3.2E-06 | 9.0E-06 |
| 45 | 1.1E+06 | 2.5E+01 | 3.9E+05 | 3.9E+05 | 1.8E+04 | 1.7E+04 | 1.5E-02 | 3.5E-01 | 5.0E+03 | 1.7E+02 | 1.9E+02 | 7.6E-01 | 3.5E-06 | 9.8E-06 |
| 46 | 1.2E+06 | 2.6E+01 | 4.1E+05 | 4.1E+05 | 1.8E+04 | 1.7E+04 | 1.6E-02 | 3.6E-01 | 5.3E+03 | 1.8E+02 | 2.0E+02 | 8.0E-01 | 3.7E-06 | 1.0E-05 |
| 47 | 7.7E+05 | 1.8E+01 | 2.8E+05 | 2.8E+05 | 1.2E+04 | 1.2E+04 | 1.1E-02 | 2.4E-01 | 3.5E+03 | 1.2E+02 | 1.3E+02 | 5.3E-01 | 2.5E-06 | 6.9E-06 |
| 48 | | | | | | | | | | | | | | |
| 49 | 3.0E+02 | 6.8E-03 | 1.1E+02 | 1.1E+02 | 4.8E+00 | 4.5E+00 | 4.2E-06 | 9.4E-05 | 1.4E+00 | 4.5E-02 | 5.2E-02 | 2.1E-04 | 9.6E-10 | 2.7E-09 |
| 50 | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | |
| Phase Totals | 1.6E+07 | 3.6E+02 | 5.6E+06 | 5.6E+06 | 2.5E+05 | 2.4E+05 | 2.2E-01 | 5.0E+00 | 7.2E+04 | 2.4E+03 | 2.8E+03 | 1.1E+01 | 5.1E-05 | 1.4E-04 |

Table A-3: Total Liquid Phase Radionuclide Inventory

| Tank | Total Supernate Volume, gal | H-3 (Ci) | C-14 (Ci) | Co-60 (Ci) | Ni-59 (Ci) | Ni-63 (Ci) | Se-79 (Ci) | Sr-90 (Ci) | Y-90 (Ci) | Nb-94 (Ci) | Tc-99 (Ci) | Ru-106 (Ci) | Rh-106 (Ci) | Sb-125 (Ci) | Sn-126 (Ci) | I-129 (Ci) |
|--------------|-----------------------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-------------|-------------|-------------|-------------|------------|
| 1 | 1.5E+05 | 5.7E+01 | 1.0E+00 | 5.8E-01 | 9.8E-02 | 1.4E+00 | 3.1E+00 | 7.3E+02 | 7.3E+02 | 2.4E-05 | 1.2E+03 | 6.0E+00 | 5.6E+00 | 7.7E+01 | 1.6E+01 | 4.7E-01 |
| 2 | 1.6E+05 | 6.2E+01 | 1.1E+00 | 6.4E-01 | 4.0E-02 | 1.5E+00 | 1.3E+00 | 3.0E+02 | 3.0E+02 | 9.9E-06 | 4.7E+02 | 2.4E+00 | 2.3E+00 | 3.1E+01 | 6.5E+00 | 1.9E-01 |
| 3 | 1.6E+05 | 6.2E+01 | 1.1E+00 | 6.4E-01 | 4.0E-02 | 1.5E+00 | 1.3E+00 | 3.0E+02 | 3.0E+02 | 1.0E-05 | 4.8E+02 | 2.5E+00 | 2.3E+00 | 3.2E+01 | 6.5E+00 | 1.9E-01 |
| 4 | 2.9E+05 | 9.5E+01 | 1.9E+00 | 1.1E+00 | 6.6E-03 | 2.7E+00 | 2.1E-01 | 4.9E+01 | 4.9E+01 | 1.6E-06 | 7.8E+01 | 4.0E-01 | 3.8E-01 | 5.2E+00 | 1.1E+00 | 3.1E-02 |
| 5 | 1.6E+03 | 7.0E-04 | 1.1E-02 | 6.1E-03 | 2.3E-14 | 1.5E-02 | 7.3E-13 | 1.7E-10 | 1.7E-10 | 5.6E-18 | 2.7E-10 | 1.4E-12 | 1.3E-12 | 1.8E-11 | 3.7E-12 | 1.1E-13 |
| 6 | 1.6E+03 | 7.4E-02 | 1.0E-02 | 6.1E-03 | 2.1E-14 | 1.5E-02 | 6.9E-13 | 1.6E-10 | 1.6E-10 | 5.3E-18 | 2.6E-10 | 1.3E-12 | 1.2E-12 | 1.7E-11 | 3.5E-12 | 1.0E-13 |
| 7 | 4.3E+05 | 2.8E+02 | 2.9E+00 | 1.7E+00 | 1.1E-02 | 4.1E+00 | 3.5E-01 | 8.2E+01 | 8.2E+01 | 2.7E-06 | 1.3E+02 | 6.7E-01 | 6.3E-01 | 8.6E+00 | 1.8E+00 | 5.2E-02 |
| 8 | 4.4E+05 | 1.6E+02 | 2.9E+00 | 1.7E+00 | 9.9E-03 | 4.1E+00 | 3.2E-01 | 7.4E+01 | 7.4E+01 | 2.5E-06 | 1.2E+02 | 2.6E+00 | 2.4E+00 | 7.8E+00 | 1.6E+00 | 4.7E-02 |
| 9 | 1.8E+05 | 6.6E+01 | 1.2E+00 | 6.8E-01 | 4.2E-02 | 1.7E+00 | 1.3E+00 | 3.1E+02 | 3.1E+02 | 1.0E-05 | 5.0E+02 | 2.6E+00 | 2.4E+00 | 3.3E+01 | 6.8E+00 | 2.0E-01 |
| 10 | 6.5E+04 | 2.5E+01 | 4.4E-01 | 2.5E-01 | 2.7E-03 | 6.2E-01 | 8.7E-02 | 2.0E+01 | 2.0E+01 | 6.7E-07 | 3.2E+01 | 1.7E-01 | 1.5E-01 | 2.1E+00 | 4.4E-01 | 1.3E-02 |
| 11 | 3.4E+05 | 1.3E+02 | 2.3E+00 | 1.3E+00 | 8.1E-04 | 3.2E+00 | 2.6E-02 | 6.0E+00 | 6.0E+00 | 2.0E-07 | 9.6E+00 | 5.0E-02 | 4.6E-02 | 6.4E-01 | 1.3E-01 | 3.9E-03 |
| 12 | 1.8E+05 | 6.7E+01 | 1.2E+00 | 6.9E-01 | 3.5E-03 | 1.7E+00 | 1.1E-01 | 2.6E+01 | 2.6E+01 | 8.7E-07 | 4.2E+01 | 2.1E-01 | 2.0E-01 | 2.8E+00 | 5.7E-01 | 1.7E-02 |
| 13 | 7.1E+05 | 2.8E+02 | 4.7E+00 | 2.8E+00 | 2.9E-01 | 6.7E+00 | 9.3E+00 | 2.2E+03 | 2.2E+03 | 7.2E-05 | 3.5E+03 | 1.8E+01 | 1.7E+01 | 2.3E+02 | 4.7E+01 | 1.4E+00 |
| 14 | 5.8E+04 | 2.2E+01 | 3.9E-01 | 2.3E-01 | 3.2E-02 | 5.5E-01 | 1.0E+00 | 2.4E+02 | 2.4E+02 | 8.0E-06 | 3.8E+02 | 2.0E+00 | 1.8E+00 | 2.5E+01 | 5.2E+00 | 1.5E-01 |
| 16 | 2.8E+03 | 1.1E+00 | 1.9E-02 | 1.1E-02 | 2.7E-09 | 2.7E-02 | 8.5E-08 | 2.0E-05 | 2.0E-05 | 6.6E-13 | 3.2E-05 | 1.6E-07 | 1.5E-07 | 2.1E-06 | 4.3E-07 | 1.3E-08 |
| 18 | 2.2E+03 | 8.5E-01 | 1.5E-02 | 8.7E-03 | 3.2E-08 | 2.1E-02 | 1.0E-06 | 2.4E-04 | 2.4E-04 | 8.0E-12 | 3.8E-04 | 2.0E-06 | 1.8E-06 | 2.5E-05 | 5.2E-06 | 1.5E-07 |
| 19 | 1.3E+06 | 1.1E+01 | 8.6E+00 | 5.0E+00 | 9.9E-03 | 1.2E+01 | 3.2E-01 | 7.3E+01 | 7.3E+01 | 2.4E-06 | 1.2E+02 | 6.0E-01 | 5.6E-01 | 7.8E+00 | 1.6E+00 | 4.7E-02 |
| 21 | 1.2E+06 | 1.0E+01 | 7.9E+00 | 4.6E+00 | 2.3E-04 | 1.1E+01 | 7.3E-03 | 1.7E+00 | 1.7E+00 | 5.7E-08 | 2.7E+00 | 1.4E-02 | 1.4E-02 | 1.8E+01 | 3.7E-02 | 1.1E-03 |
| 22 | 1.3E+06 | 1.1E+01 | 8.4E+00 | 4.9E+00 | 8.5E-03 | 1.2E+01 | 2.7E-01 | 1.5E+01 | 1.5E+01 | 2.1E-06 | 3.1E+01 | 5.2E-01 | 4.9E-01 | 6.7E+00 | 1.4E+00 | 4.0E-02 |
| 23 | 1.3E+06 | 1.1E+01 | 8.4E+00 | 4.9E+00 | 8.5E-03 | 1.2E+01 | 2.7E-01 | 1.5E+01 | 1.5E+01 | 2.1E-06 | 3.1E+01 | 5.2E-01 | 4.9E-01 | 6.7E+00 | 1.4E+00 | 4.0E-02 |
| 24 | 1.0E+06 | 3.9E+02 | 6.8E+00 | 4.0E+00 | 2.4E-01 | 9.7E+00 | 7.7E+00 | 1.8E+03 | 1.8E+03 | 5.9E-05 | 2.8E+03 | 1.5E+01 | 1.4E+01 | 1.9E+02 | 3.9E+01 | 1.1E+00 |
| 25 | 8.3E+05 | 3.1E+02 | 5.5E+00 | 3.2E+00 | 4.3E-02 | 7.8E+00 | 1.4E+00 | 3.2E+02 | 3.2E+02 | 1.1E-05 | 5.2E+02 | 2.7E+00 | 2.5E+00 | 3.4E+01 | 7.1E+00 | 2.1E-01 |
| 26 | 1.2E+06 | 1.7E+02 | 7.7E+00 | 4.5E+00 | 7.4E-02 | 1.1E+01 | 2.4E+00 | 5.5E+02 | 5.5E+02 | 1.8E-05 | 8.8E+02 | 4.3E+00 | 4.2E+00 | 5.8E+01 | 1.2E+01 | 3.5E-01 |
| 27 | 4.3E+05 | 6.2E+01 | 2.9E+00 | 1.7E+00 | 5.4E-02 | 4.1E+00 | 1.7E+00 | 4.0E+02 | 4.0E+02 | 1.3E-05 | 6.4E+02 | 3.5E+00 | 3.1E+00 | 4.5E+01 | 8.8E+00 | 2.6E-01 |
| 28 | 5.0E+05 | 1.9E+02 | 3.4E+00 | 2.0E+00 | 7.0E-02 | 4.8E+00 | 2.2E+00 | 5.2E+02 | 5.2E+02 | 1.7E-05 | 8.3E+02 | 4.3E+00 | 4.0E+00 | 5.3E+01 | 1.1E+01 | 3.3E-01 |
| 29 | 5.3E+05 | 2.0E+02 | 3.6E+00 | 2.1E+00 | 1.1E-02 | 5.1E+00 | 3.5E-01 | 8.0E+01 | 8.0E+01 | 2.7E-06 | 1.3E+02 | 6.6E-01 | 6.2E-01 | 8.5E+00 | 1.8E+00 | 5.1E-02 |
| 30 | 1.1E+06 | 3.6E+01 | 7.0E+00 | 4.1E+00 | 2.4E-01 | 1.0E+01 | 7.8E+00 | 1.8E+03 | 1.8E+03 | 6.0E-05 | 2.9E+03 | 1.5E+01 | 1.4E+01 | 1.9E+02 | 3.9E+01 | 1.2E+00 |
| 31 | 7.5E+05 | 3.1E+01 | 5.0E+00 | 2.9E+00 | 1.4E-01 | 7.1E+00 | 4.3E+00 | 1.0E+03 | 1.0E+03 | 4.2E-05 | 1.6E+03 | 1.0E+01 | 9.6E+00 | 1.3E+02 | 2.7E+01 | 8.0E-01 |
| 32 | 7.8E+05 | 6.2E+01 | 5.2E+00 | 3.0E+00 | 6.7E-02 | 7.4E+00 | 2.1E+00 | 5.0E+02 | 5.0E+02 | 1.7E-05 | 7.9E+02 | 4.1E+00 | 3.8E+00 | 5.2E+01 | 1.1E+01 | 3.2E-01 |
| 33 | 1.1E+06 | 4.3E+02 | 7.6E+00 | 4.5E+00 | 1.2E-01 | 1.1E+01 | 3.8E+00 | 8.9E+02 | 8.9E+02 | 3.0E-05 | 1.4E+03 | 7.3E+00 | 6.8E+00 | 9.4E+01 | 1.9E+01 | 5.7E-01 |
| 34 | 9.7E+05 | 2.1E+02 | 3.6E+00 | 2.1E+00 | 2.6E-01 | 5.2E+00 | 8.4E+00 | 2.0E+03 | 2.0E+03 | 6.5E-05 | 3.1E+03 | 1.6E+01 | 1.5E+01 | 2.1E+02 | 4.3E+01 | 1.2E+00 |
| 35 | 5.5E+05 | 4.4E+05 | 2.9E+00 | 1.7E+00 | 1.5E-02 | 4.1E+00 | 4.7E-01 | 1.1E+02 | 1.1E+02 | 3.7E-06 | 1.8E+02 | 9.1E-01 | 8.4E-01 | 1.2E+01 | 2.4E+00 | 7.0E-02 |
| 36 | 4.4E+05 | 1.8E+01 | 3.2E+00 | 1.9E+00 | 3.5E-03 | 4.6E+00 | 1.1E-01 | 2.6E+01 | 2.6E+01 | 8.7E-07 | 4.2E+01 | 2.2E-01 | 2.0E-01 | 2.8E+00 | 5.7E-01 | 1.7E-02 |
| 37 | 4.9E+05 | 8.3E-01 | 6.2E+00 | 3.6E+00 | 9.6E-03 | 8.8E+00 | 3.1E-01 | 7.1E+01 | 7.1E+01 | 2.4E-06 | 1.1E+02 | 5.9E-01 | 5.5E-01 | 7.6E+00 | 1.6E+00 | 4.6E-02 |
| 38 | 5.4E+05 | 2.2E+00 | 3.6E+00 | 2.1E+00 | 2.7E-03 | 5.1E+00 | 8.7E-02 | 2.0E+01 | 2.0E+01 | 6.7E-07 | 3.2E+01 | 1.7E-01 | 1.5E-01 | 2.1E+00 | 4.4E-01 | 1.3E-02 |
| 39 | 5.7E+05 | 2.2E+02 | 3.8E+00 | 2.2E+00 | 1.0E-03 | 5.4E+00 | 3.3E-02 | 7.7E+00 | 7.7E+00 | 2.6E-07 | 1.2E+01 | 6.3E-02 | 5.9E-02 | 8.1E-01 | 1.7E-01 | 4.9E-03 |
| 40 | 5.4E+05 | 4.5E+02 | 7.9E+00 | 4.6E+00 | 1.2E-01 | 1.1E+01 | 3.8E+00 | 8.9E+02 | 8.9E+02 | 3.0E-05 | 1.4E+03 | 7.3E+00 | 6.8E+00 | 9.4E+01 | 1.9E+01 | 5.7E-01 |
| 41 | 1.2E+06 | 1.9E+00 | 7.6E+00 | 4.4E+00 | 6.7E-03 | 1.1E+01 | 2.1E-01 | 5.0E+01 | 5.0E+01 | 1.7E-06 | 7.9E+01 | 4.1E-01 | 3.8E-01 | 5.2E+00 | 1.1E+00 | 3.2E-02 |
| 42 | 5.6E+05 | 2.1E+02 | 3.7E+00 | 2.2E+00 | 6.5E-02 | 5.3E+00 | 2.1E+00 | 4.8E+02 | 4.8E+02 | 1.6E-05 | 7.7E+02 | 4.0E+00 | 3.7E+00 | 5.1E+01 | 1.0E+01 | 3.1E-01 |
| 43 | 4.8E+05 | 4.4E+01 | 3.0E+00 | 1.8E+00 | 1.0E-01 | 4.3E+00 | 3.3E+00 | 7.5E+02 | 7.5E+02 | 1.8E-05 | 8.6E+02 | 4.4E+00 | 4.1E+00 | 5.7E+01 | 1.2E+01 | 3.4E-01 |
| 44 | 4.5E+05 | 2.3E+01 | 4.2E+00 | 2.5E+00 | 1.1E-01 | 6.0E+00 | 3.4E+00 | 7.9E+02 | 7.9E+02 | 2.5E-05 | 1.2E+03 | 6.2E+00 | 5.8E+00 | 8.0E+01 | 1.6E+01 | 4.8E-01 |
| 45 | 6.3E+05 | 4.4E+01 | 1.5E+00 | 8.8E-01 | 3.3E-04 | 2.1E+00 | 1.1E-02 | 2.5E+00 | 2.5E+00 | 8.2E-08 | 3.3E+01 | 2.0E-02 | 1.9E-02 | 2.6E-01 | 5.4E-02 | 1.6E-03 |
| 46 | 2.3E+05 | 8.5E+01 | 2.4E+00 | 1.5E+00 | 4.0E-01 | 1.3E-01 | 5.9E-02 | 2.6E+02 | 2.6E+02 | 5.9E-07 | 5.0E+01 | 2.4E-02 | 2.4E-02 | 2.6E-01 | 2.5E-01 | 1.3E-02 |
| 47 | 9.8E+05 | 2.2E+00 | 1.2E+00 | 1.2E-03 | 1.2E+00 | 1.2E-03 | 5.0E-01 | 2.0E+02 | 2.0E+02 | 3.1E-07 | 1.1E+01 | 2.6E-02 | 2.6E-02 | 5.0E+00 | 3.2E-01 | 2.1E-02 |
| 48 | 4.0E+05 | 1.6E+00 | 2.7E+00 | 1.6E+00 | 1.1E-02 | 3.8E+00 | 3.7E-01 | 8.5E+01 | 8.5E+01 | 2.8E-06 | 1.4E+02 | 7.0E-01 | 6.5E-01 | 9.0E+00 | 1.9E+00 | 5.4E-02 |
| 49 | 2.6E+07 | 4.9E+03 | 1.7E+02 | 9.8E+01 | 3.2E+00 | 2.4E+02 | 8.9E+01 | 2.1E+04 | 2.1E+04 | 6.9E-04 | 3.3E+04 | 1.7E+02 | 1.6E+02 | 2.2E+03 | 4.5E+02 | 1.3E+01 |
| 50 | 2.6E+07 | 4.9E+03 | 1.7E+02 | 9.8E+01 | 3.2E+00 | 2.4E+02 | 8.9E+01 | 2.1E+04 | 2.1E+04 | 6.9E-04 | 3.3E+04 | 1.7E+02 | 1.6E+02 | 2.2E+03 | 4.5E+02 | 1.3E+01 |
| 51 | 2.6E+07 | 4.9E+03 | 1.7E+02 | 9.8E+01 | 3.2E+00 | 2.4E+02 | 8.9E+01 | 2.1E+04 | 2.1E+04 | 6.9E-04 | 3.3E+04 | 1.7E+02 | 1.6E+02 | 2.2E+03 | 4.5E+02 | 1.3E+01 |
| Phase Totals | | | | | | | | | | | | | | | | |

Table A-3: Total Liquid Phase Radionuclide Inventory, Continued

| Tank | Total Supernate Volume, gal | Cs-134 (Ci) | Cs-135 (Ci) | Cs-137 (Ci) | Ba-137m (Ci) | Ce-144 (Ci) | Pr-144 (Ci) | Pm-147 (Ci) | Eu-154 (Ci) | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) |
|--------------|-----------------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|
| 1 | 1.5E+05 | 2.8E+03 | 1.2E+01 | 3.0E+06 | 2.8E+06 | 2.2E-02 | 2.1E-02 | 3.4E+01 | 1.8E+01 | 1.5E-04 | 4.8E-05 | 1.8E-02 | 4.4E-03 | 1.1E-04 | 4.2E-05 | 3.0E-03 | 3.6E-03 |
| 2 | 1.6E+05 | 1.1E+03 | 4.9E+00 | 1.2E+06 | 1.1E+06 | 8.9E-03 | 8.6E-03 | 1.4E+01 | 7.4E+00 | 1.6E-04 | 5.3E-05 | 2.0E-02 | 4.8E-03 | 1.2E-04 | 4.6E-05 | 3.3E-03 | 3.9E-03 |
| 3 | 1.6E+05 | 1.1E+03 | 5.0E+00 | 1.2E+06 | 1.2E+06 | 9.0E-03 | 8.7E-03 | 1.4E+01 | 7.5E+00 | 1.6E-04 | 5.3E-05 | 2.0E-02 | 4.8E-03 | 1.2E-04 | 4.6E-05 | 3.3E-03 | 3.9E-03 |
| 4 | 2.9E+05 | 1.9E+02 | 8.1E-01 | 2.0E+05 | 1.9E+05 | 1.5E-03 | 1.4E-03 | 2.3E+00 | 1.2E+00 | | | | | | | | |
| 5 | 1.6E+03 | 6.4E-10 | 2.8E-12 | 6.8E-07 | 6.5E-07 | 5.1E-15 | 4.9E-15 | 7.9E-12 | 4.2E-12 | | | | | | | | |
| 6 | 1.6E+03 | 6.0E-10 | 2.6E-12 | 6.5E-07 | 6.1E-07 | 4.8E-15 | 4.6E-15 | 7.5E-12 | 4.0E-12 | | | | | | | | |
| 7 | 4.3E+05 | 3.1E+02 | 1.4E+00 | 3.3E+05 | 3.1E+05 | 2.5E-03 | 2.4E-03 | 3.8E+00 | 2.0E+00 | 4.2E-04 | 1.4E-04 | 5.2E-02 | 1.3E-02 | 4.5E-08 | 1.2E-04 | 8.6E-03 | 1.0E-02 |
| 8 | 4.4E+05 | 2.8E+02 | 1.2E+00 | 3.0E+05 | 2.8E+05 | 2.2E-03 | 2.1E-03 | 3.5E+00 | 1.8E+00 | 7.1E-04 | 1.2E-05 | 2.0E-02 | 2.0E-02 | 4.9E-05 | 1.6E-04 | 7.5E-04 | 4.4E-03 |
| 9 | 1.8E+05 | 1.2E+03 | 5.1E+00 | 1.3E+06 | 1.2E+06 | 9.3E-03 | 9.0E-03 | 1.5E+01 | 7.8E+00 | 9.8E-05 | 2.5E-05 | 2.0E-02 | 2.8E-03 | 7.8E-05 | 2.9E-04 | 9.1E-04 | 7.3E-03 |
| 10 | 6.5E+04 | 7.7E+01 | 3.3E-01 | 8.2E+04 | 7.8E+04 | 6.1E-04 | 5.9E-04 | 9.5E-01 | 5.0E-01 | 3.7E-05 | 9.2E-06 | 7.5E-03 | 1.1E-03 | 2.9E-05 | 1.1E-04 | 3.4E-04 | 2.7E-03 |
| 11 | 3.4E+05 | 2.3E+01 | 1.0E-01 | 2.5E+04 | 2.3E+04 | 1.8E-04 | 1.7E-04 | 2.8E-01 | 1.5E-01 | 6.4E-06 | | | | | | | |
| 12 | 1.8E+05 | 9.8E+01 | 4.3E-01 | 1.1E+05 | 1.0E+05 | 7.8E-04 | 7.5E-04 | 1.2E+00 | 6.5E-01 | 3.3E-04 | 3.1E-06 | 9.2E-03 | 8.6E-04 | 1.6E-05 | 1.2E-04 | 2.6E-05 | 5.0E-04 |
| 13 | 7.1E+05 | 8.2E+03 | 3.6E+01 | 8.8E+06 | 8.3E+06 | 6.5E-02 | 6.3E-02 | 1.0E+02 | 5.4E+01 | 4.0E-04 | 1.0E-04 | 8.2E-02 | 1.2E-02 | 3.2E-04 | 1.2E-03 | 3.7E-03 | 3.0E-02 |
| 14 | 5.8E+04 | 9.1E+02 | 4.0E+00 | 9.8E+05 | 9.2E+05 | 7.2E-03 | 7.0E-03 | 1.1E+01 | 6.0E+00 | 1.4E-04 | 3.8E-05 | 4.9E-03 | 6.7E-04 | 5.4E-05 | 5.7E-05 | 1.0E-03 | 7.1E-03 |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 7.5E-05 | 3.3E-07 | 8.0E-02 | 7.6E-02 | 5.9E-10 | 5.7E-10 | 9.3E-07 | 4.9E-07 | | | | | | | | |
| 19 | 2.2E+03 | 9.1E-04 | 4.0E-06 | 9.7E-01 | 9.2E-01 | 7.2E-09 | 6.9E-09 | 1.1E-05 | 6.0E-06 | | | | | | | | |
| 21 | 1.3E+06 | 2.8E+02 | 1.2E+00 | 3.0E+05 | 2.8E+05 | 2.2E-03 | 2.1E-03 | 3.4E+00 | 1.8E+00 | 1.4E-06 | | | | | | | |
| 22 | 1.2E+06 | 6.4E+00 | 2.8E-02 | 6.9E+03 | 6.5E+03 | 5.1E-05 | 4.9E-05 | 8.0E-02 | 4.2E-02 | | | | | | | | |
| 23 | 1.3E+06 | 2.4E+02 | 1.0E+00 | 2.6E+05 | 2.4E+05 | 1.9E-03 | 1.8E-03 | 3.0E+00 | 1.6E+00 | | | | | | | | |
| 24 | 1.0E+06 | 6.7E+03 | 2.9E+01 | 7.2E+06 | 6.8E+06 | 5.4E-02 | 5.2E-02 | 8.3E+01 | 4.4E+01 | | | | | | | | |
| 25 | 8.3E+05 | 1.2E+03 | 5.1E+00 | 1.3E+06 | 1.2E+06 | 9.7E-03 | 9.4E-03 | 1.5E+01 | 8.1E+00 | | | | | | | | |
| 26 | 1.2E+06 | 2.1E+03 | 9.4E+00 | 2.2E+06 | 2.1E+06 | 1.7E-02 | 1.6E-02 | 2.6E+01 | 1.4E+01 | | | | | | | | |
| 27 | 4.3E+05 | 1.5E+03 | 6.7E+00 | 1.6E+06 | 1.6E+06 | 1.2E-02 | 1.2E-02 | 1.9E+01 | 1.0E+01 | | | | | | | | |
| 28 | 5.0E+05 | 2.0E+03 | 8.6E+00 | 2.1E+06 | 2.0E+06 | 1.6E-02 | 1.5E-02 | 2.4E+01 | 1.3E+01 | | | | | | | | |
| 29 | 5.3E+05 | 3.0E+02 | 1.3E+00 | 3.3E+05 | 3.1E+05 | 2.4E-03 | 2.3E-03 | 3.8E+00 | 2.0E+00 | | | | | | | | |
| 30 | 1.1E+06 | 6.8E+03 | 3.0E+01 | 7.3E+06 | 6.9E+06 | 5.4E-02 | 5.2E-02 | 8.5E+01 | 4.5E+01 | | | | | | | | |
| 31 | 4.6E+05 | 4.8E+03 | 2.1E+01 | 5.1E+06 | 4.8E+06 | 3.8E-02 | 3.6E-02 | 5.9E+01 | 3.1E+01 | | | | | | | | |
| 32 | 7.5E+05 | 3.8E+03 | 1.7E+01 | 4.1E+06 | 3.9E+06 | 3.0E-02 | 2.9E-02 | 4.7E+01 | 2.5E+01 | | | | | | | | |
| 33 | 7.8E+05 | 1.9E+03 | 8.2E+00 | 2.0E+06 | 1.9E+06 | 1.5E-02 | 1.4E-02 | 2.3E+01 | 1.2E+01 | | | | | | | | |
| 34 | 9.7E+05 | 5.0E+03 | 2.2E+01 | 5.3E+06 | 5.0E+06 | 3.9E-02 | 3.8E-02 | 6.2E+01 | 3.3E+01 | | | | | | | | |
| 35 | 1.1E+06 | 3.4E+03 | 1.5E+01 | 3.6E+06 | 3.4E+06 | 2.7E-02 | 2.6E-02 | 4.2E+01 | 2.2E+01 | | | | | | | | |
| 36 | 5.5E+05 | 7.4E+03 | 3.2E+01 | 7.9E+06 | 7.5E+06 | 5.9E-02 | 5.7E-02 | 9.2E+01 | 4.9E+01 | | | | | | | | |
| 37 | 4.4E+05 | 4.2E+02 | 1.8E+00 | 4.5E+05 | 4.2E+05 | 3.3E-03 | 3.2E-03 | 5.2E+00 | 2.8E+00 | | | | | | | | |
| 38 | 4.9E+05 | 9.9E+01 | 4.3E-01 | 1.1E+05 | 1.0E+05 | 7.9E-04 | 7.6E-04 | 1.2E+00 | 6.5E-01 | | | | | | | | |
| 39 | 9.3E+05 | 2.7E+02 | 1.2E+00 | 2.9E+05 | 2.7E+05 | 2.1E-03 | 2.1E-03 | 3.4E+00 | 1.8E+00 | | | | | | | | |
| 40 | 5.4E+05 | 7.7E+01 | 3.3E-01 | 8.2E+04 | 7.8E+04 | 6.1E-04 | 5.9E-04 | 9.5E-01 | 5.0E-01 | | | | | | | | |
| 41 | 5.7E+05 | 2.9E+01 | 1.3E-01 | 3.1E+04 | 3.0E+04 | 2.3E-04 | 2.2E-04 | 3.6E-01 | 1.9E-01 | | | | | | | | |
| 42 | 1.2E+06 | 3.4E+03 | 1.5E+01 | 3.6E+06 | 3.4E+06 | 2.7E-02 | 2.6E-02 | 4.2E+01 | 2.2E+01 | | | | | | | | |
| 43 | 1.1E+06 | 1.9E+02 | 8.2E-01 | 2.0E+05 | 1.9E+05 | 1.5E-03 | 1.4E-03 | 2.3E+00 | 1.2E+00 | | | | | | | | |
| 44 | 5.6E+05 | 1.8E+03 | 8.0E+00 | 2.0E+06 | 1.9E+06 | 1.4E-02 | 1.4E-02 | 2.3E+01 | 1.2E+01 | | | | | | | | |
| 45 | 4.8E+05 | 2.0E+03 | 8.9E+00 | 2.2E+06 | 2.1E+06 | 1.6E-02 | 1.6E-02 | 2.5E+01 | 1.3E+01 | | | | | | | | |
| 46 | 4.5E+05 | 2.9E+03 | 1.3E+01 | 3.1E+06 | 2.9E+06 | 2.3E-02 | 2.2E-02 | 3.5E+01 | 1.9E+01 | | | | | | | | |
| 47 | 6.3E+05 | 3.0E+03 | 1.3E+01 | 3.2E+06 | 3.0E+06 | 2.4E-02 | 2.3E-02 | 3.7E+01 | 2.0E+01 | | | | | | | | |
| 48 | 2.3E+05 | 9.4E+00 | 4.1E-02 | 1.0E+04 | 9.5E+03 | 7.4E-05 | 7.2E-05 | 1.2E+01 | 6.2E-02 | | | | | | | | |
| 49 | 2.6E+05 | 4.2E+01 | 6.7E-01 | 4.7E+04 | 4.5E+04 | 1.7E-02 | 1.7E-02 | 3.4E-01 | 6.6E-02 | | | | | | | | |
| 50 | 9.8E+05 | 1.1E+01 | 2.7E-01 | 3.7E+04 | 3.5E+04 | 2.8E-04 | 2.7E-04 | 4.3E-01 | 5.0E-01 | | | | | | | | |
| 51 | 4.0E+05 | 3.2E+02 | 1.4E+00 | 3.5E+05 | 3.3E+05 | 2.6E-03 | 2.5E-03 | 4.0E+00 | 2.1E+00 | | | | | | | | |
| Phase Totals | 2.6E+07 | 7.8E+04 | 3.4E+02 | 8.4E+07 | 7.9E+07 | 6.4E-01 | 6.1E-01 | 9.7E+02 | 5.2E+02 | 1.3E-01 | 1.1E-01 | 1.1E+01 | 1.0E+01 | 1.3E-01 | 4.5E-01 | 9.8E+00 | 4.4E+00 |

Table A-3: Total Liquid Phase Radionuclide Inventory, Continued

| Tank | Total Supernate Volume, gal | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) | Am-241m (Ci) | Am-244 (Ci) | Am-245 (Ci) | Na-22 (Ci) | Al-26 (Ci) | Tc-125m (Ci) | Sb-126 (Ci) | Sb-126m (Ci) | Sm-151 (Ci) | Eu-152 (Ci) | Eu-155 (Ci) |
|--------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|------------|------------|--------------|-------------|--------------|-------------|-------------|-------------|
| 1 | 1.5E+05 | 1.4E+01 | 1.2E+00 | 3.8E-01 | 5.7E+00 | 1.4E-03 | 1.3E+01 | 7.1E+00 | 3.9E-03 | 8.1E+01 | 4.5E-01 | 1.9E+01 | 2.2E+00 | 1.6E+01 | 1.5E+02 | 7.4E-01 | 8.6E+00 |
| 2 | 1.6E+05 | 1.6E+01 | 1.3E+00 | 4.2E-01 | 6.2E+00 | 1.5E-03 | 5.1E+00 | 2.9E+00 | 1.6E-03 | 3.3E+01 | 1.8E-01 | 7.7E+00 | 9.0E-01 | 6.5E+00 | 6.2E+01 | 3.0E-01 | 3.5E+00 |
| 3 | 1.6E+05 | 1.6E+01 | 1.3E+00 | 4.2E-01 | 6.2E+00 | 1.5E-03 | 5.2E+00 | 2.9E+00 | 1.6E-03 | 3.3E+01 | 1.8E-01 | 7.8E+00 | 9.2E-01 | 6.5E+00 | 6.2E+01 | 3.0E-01 | 3.5E+00 |
| 4 | 2.9E+05 | | | | | | 8.5E-01 | 4.8E-01 | 2.6E-04 | 5.4E+00 | 3.0E-02 | 1.3E+00 | 1.5E-01 | 1.1E+00 | 1.0E+01 | 4.9E-02 | 5.8E-01 |
| 5 | 1.6E+03 | 1.0E-02 | 2.7E-02 | 3.9E-02 | 4.7E-02 | 4.9E-07 | 2.9E-12 | 1.6E-12 | 8.9E-16 | 1.9E-11 | 1.0E-13 | 4.3E-12 | 5.1E-13 | 3.7E-12 | 3.5E-11 | 1.7E-13 | 1.9E-12 |
| 6 | 1.6E+03 | 7.0E-03 | 9.7E-03 | 1.5E-02 | 2.2E-02 | 9.6E-07 | 2.8E-12 | 1.6E-12 | 8.4E-16 | 1.8E-11 | 9.9E-14 | 4.1E-12 | 4.9E-13 | 1.8E+00 | 1.7E+01 | 1.6E-13 | 1.9E-12 |
| 7 | 4.3E+05 | 4.1E+01 | 3.5E+00 | 1.1E+00 | 1.6E+01 | 3.9E-03 | 1.4E+00 | 7.9E-01 | 3.9E-04 | 8.2E+00 | 4.6E-02 | 1.9E+00 | 2.3E-01 | 1.6E+00 | 1.5E+01 | 7.4E-02 | 8.7E-01 |
| 8 | 4.4E+05 | 7.6E+01 | 1.6E+00 | 8.1E-01 | 1.6E+01 | 1.1E-03 | 1.3E+00 | 7.9E-01 | 3.9E-04 | 8.2E+00 | 4.6E-02 | 1.9E+00 | 2.3E-01 | 1.6E+00 | 1.5E+01 | 7.4E-02 | 8.7E-01 |
| 9 | 1.8E+05 | 2.5E+01 | 7.2E-01 | 3.0E-01 | 3.9E+00 | 2.0E-04 | 5.4E+00 | 3.0E+00 | 1.6E-03 | 3.4E+01 | 1.9E-01 | 8.0E+00 | 9.5E-01 | 6.8E+00 | 6.5E+01 | 3.1E-01 | 3.7E+00 |
| 10 | 6.5E+04 | 9.5E+00 | 2.7E-01 | 1.1E-01 | 1.5E+00 | 7.4E-05 | 3.5E-01 | 2.1E-04 | 1.1E-04 | 2.2E+00 | 1.3E-02 | 5.2E-01 | 6.2E-02 | 4.4E-01 | 4.2E+00 | 2.0E-02 | 2.4E-01 |
| 11 | 3.4E+05 | 6.4E+01 | 6.7E-01 | 4.2E-01 | 1.8E+01 | 8.9E-04 | 1.0E-01 | 6.1E-05 | 3.2E-05 | 6.7E-01 | 3.7E-03 | 1.6E-01 | 1.8E-02 | 1.3E-01 | 1.3E+00 | 6.1E-03 | 7.1E-02 |
| 12 | 1.8E+05 | 3.2E+01 | 5.6E-01 | 3.1E-01 | 5.8E+00 | 4.4E-04 | 4.5E-01 | 2.6E-04 | 1.4E-04 | 2.9E+00 | 1.6E-02 | 6.7E-01 | 7.9E-02 | 5.7E-01 | 5.4E+00 | 2.6E-02 | 3.1E-01 |
| 13 | 7.1E+05 | 1.0E+02 | 2.9E+00 | 1.2E+00 | 1.6E+01 | 8.0E-04 | 3.8E+01 | 2.2E-02 | 1.1E-02 | 2.4E+02 | 1.3E+00 | 5.6E+01 | 6.6E+00 | 4.7E+01 | 4.5E+02 | 2.2E+00 | 2.5E+01 |
| 14 | 5.8E+04 | 3.0E+00 | 7.9E-01 | 2.5E-01 | 9.5E-01 | 4.6E-05 | 4.2E+00 | 2.4E-03 | 1.3E-03 | 2.7E+01 | 1.5E-01 | 6.2E+00 | 7.3E-01 | 5.2E+00 | 5.0E+01 | 2.4E-01 | 2.8E+00 |
| 16 | 2.8E+03 | 1.2E-01 | 2.3E-01 | 5.2E-02 | 4.7E-01 | 5.5E-04 | 3.4E-07 | 1.9E-07 | 1.0E-10 | 2.2E-06 | 1.2E-08 | 5.1E-07 | 6.0E-08 | 4.3E-07 | 4.1E-06 | 2.0E-08 | 2.3E-07 |
| 18 | 2.2E+03 | 1.3E-01 | 1.7E-01 | 6.1E-02 | 3.1E-01 | 2.1E-03 | 4.2E-06 | 2.3E-06 | 1.3E-09 | 2.7E-05 | 1.5E-07 | 6.2E-06 | 7.3E-07 | 5.2E-06 | 5.0E-05 | 2.4E-07 | 2.8E-06 |
| 19 | 1.3E+06 | 2.2E+02 | 3.4E+00 | 1.2E+00 | 1.9E+01 | 1.3E-04 | 1.3E+00 | 7.1E-01 | 3.9E-04 | 8.1E+00 | 4.5E-02 | 1.9E+00 | 2.2E-01 | 1.6E+00 | 1.5E+01 | 7.4E-02 | 8.6E-01 |
| 22 | 1.2E+06 | 2.3E+02 | | | | | 2.9E-02 | 1.7E-02 | 9.0E-06 | 1.9E-01 | 1.1E-03 | 4.4E-02 | 5.2E-03 | 3.7E-02 | 3.5E-01 | 1.7E-03 | 2.0E-02 |
| 23 | 1.3E+06 | 3.1E+01 | 7.6E+01 | 1.1E+02 | 1.7E+01 | | 6.5E-04 | 6.2E-01 | 3.3E-04 | 7.0E+00 | 3.9E-02 | 1.6E+00 | 1.9E-01 | 1.4E+00 | 1.3E+01 | 6.4E-02 | 7.5E-01 |
| 24 | 1.0E+06 | 6.9E+03 | 2.9E+01 | 2.4E+01 | 4.6E+03 | 3.6E-01 | 3.1E+01 | 1.8E-02 | 9.4E-03 | 2.0E+02 | 1.1E+00 | 4.6E+01 | 5.4E+00 | 3.9E+01 | 6.7E+01 | 3.3E-01 | 3.8E+00 |
| 25 | 8.3E+05 | 4.8E+03 | 7.5E+02 | 1.7E+02 | 2.9E+03 | 4.7E-02 | 5.6E+00 | 3.3E-03 | 1.7E-03 | 3.6E+01 | 2.0E-01 | 8.4E+00 | 9.9E-01 | 7.1E+00 | 1.2E+01 | 1.1E+02 | 6.5E+00 |
| 26 | 1.2E+06 | 6.7E+03 | 1.0E+03 | 2.3E+02 | 4.1E+03 | 3.7E-02 | 9.5E+00 | 5.6E-03 | 2.9E-03 | 6.1E+01 | 3.4E-01 | 1.4E+01 | 1.7E+00 | 1.2E+01 | 8.8E+00 | 4.1E-01 | 4.7E+00 |
| 27 | 4.3E+05 | 2.5E+03 | 3.9E+02 | 8.7E+01 | 1.5E+03 | 1.7E-02 | 7.0E+00 | 4.1E-03 | 2.1E-03 | 4.5E+01 | 1.0E-01 | 1.0E+01 | 1.2E+00 | 1.2E+01 | 8.4E+01 | 4.1E-01 | 4.7E+00 |
| 28 | 5.0E+05 | 2.9E+03 | 4.5E+02 | 1.0E+02 | 1.8E+03 | 2.0E-02 | 9.0E+00 | 5.3E-03 | 2.7E-03 | 5.8E+01 | 3.2E-01 | 1.3E+01 | 1.6E+00 | 1.1E+01 | 1.1E+02 | 5.2E-01 | 6.1E+00 |
| 29 | 5.3E+05 | 7.8E+01 | 2.2E+00 | 9.1E-01 | 1.2E+01 | 6.0E-04 | 1.4E+00 | 8.2E-04 | 4.2E-04 | 8.9E+00 | 5.0E-02 | 2.1E+00 | 2.5E-01 | 1.8E+00 | 1.7E+01 | 8.1E-02 | 9.5E-01 |
| 30 | 1.1E+06 | 6.9E+03 | 6.3E+01 | 4.7E+01 | 2.4E+03 | 9.9E-02 | 1.8E-01 | 1.8E-02 | 9.5E-03 | 2.0E+02 | 1.1E+00 | 4.7E+01 | 5.5E+00 | 3.9E+01 | 3.8E+02 | 1.8E+00 | 2.1E+01 |
| 31 | 4.6E+05 | 6.7E+01 | 1.9E+00 | 7.8E-01 | 1.0E+01 | 5.2E-04 | 2.2E+01 | 1.3E-02 | 6.6E-03 | 1.4E+02 | 7.8E-01 | 3.3E+01 | 3.8E+00 | 2.7E+01 | 2.1E+02 | 1.0E+00 | 1.2E+01 |
| 32 | 7.5E+05 | 4.9E+03 | 4.5E+01 | 3.3E+01 | 1.7E+03 | 7.0E-02 | 1.7E+01 | 1.0E-02 | 5.3E-03 | 1.1E+02 | 6.2E-01 | 2.6E+01 | 3.1E+00 | 2.2E+01 | 2.1E+02 | 1.0E+00 | 1.2E+01 |
| 33 | 7.8E+05 | 1.6E+03 | 8.9E+02 | 1.6E+02 | 3.4E+03 | 1.2E-02 | 8.6E+00 | 5.1E-03 | 2.6E-03 | 5.5E+01 | 3.1E-01 | 1.3E+01 | 1.5E+00 | 1.1E+01 | 1.0E+02 | 5.0E-01 | 5.8E+00 |
| 34 | 9.7E+05 | | 5.9E+01 | 1.3E+01 | 2.0E+02 | 2.7E-03 | 2.3E+01 | 1.3E-02 | 6.9E-03 | 1.5E+02 | 8.1E-01 | 3.4E+01 | 4.0E+00 | 2.9E+01 | 2.7E+02 | 1.3E+00 | 1.5E+01 |
| 35 | 1.1E+06 | 7.5E+03 | 6.4E+01 | 4.9E+01 | 2.8E+03 | 1.1E-01 | 1.5E+01 | 1.1E+00 | 5.8E-04 | 2.2E+02 | 1.2E+00 | 5.0E+01 | 5.8E+00 | 4.3E+01 | 4.1E+02 | 2.0E+00 | 2.3E+01 |
| 36 | 5.5E+05 | 7.9E+01 | 2.2E+00 | 9.3E-01 | 1.2E+01 | 6.2E-04 | 3.4E+01 | 2.0E-02 | 1.0E-02 | 1.9E+01 | 1.0E-02 | 2.8E+00 | 3.4E-01 | 2.4E+00 | 2.3E+01 | 1.1E-01 | 1.3E+00 |
| 37 | 4.4E+05 | 2.8E+03 | 2.6E+01 | 1.9E+01 | 9.9E+02 | 4.1E-02 | 1.9E+00 | 1.1E-03 | 5.8E-04 | 1.2E+01 | 6.8E-02 | 2.8E+00 | 3.4E-01 | 2.4E+00 | 2.3E+01 | 1.1E-01 | 1.3E+00 |
| 38 | 4.9E+05 | 3.3E+03 | 1.4E+01 | 1.2E+01 | 2.2E+03 | 1.7E-01 | 4.5E-01 | 2.7E-04 | 1.4E-04 | 2.9E+00 | 1.6E-02 | 6.8E-01 | 8.0E-02 | 5.7E-01 | 5.5E+00 | 2.6E-02 | 3.1E-01 |
| 39 | 9.3E+05 | 4.9E+03 | 6.3E+01 | 3.9E+01 | 3.4E+03 | 8.4E-02 | 1.2E+00 | 7.3E-04 | 3.8E-04 | 7.9E+00 | 4.4E-02 | 1.8E+00 | 2.2E-01 | 1.6E+00 | 1.5E+01 | 7.2E-02 | 8.4E-01 |
| 40 | 5.4E+05 | 2.5E+03 | 2.2E+02 | 7.9E+01 | 1.2E+03 | 2.4E-01 | 3.5E-01 | 2.1E-04 | 1.1E-04 | 2.2E+00 | 1.3E-02 | 5.2E-01 | 6.2E-02 | 4.4E-01 | 4.2E+00 | 2.0E-02 | 2.4E-01 |
| 41 | 5.7E+05 | 3.9E+03 | 1.6E+01 | 1.4E+01 | 2.6E+03 | 2.0E-01 | 1.3E-01 | 7.8E-05 | 4.1E-05 | 8.5E-01 | 4.8E-03 | 2.0E-01 | 2.3E-01 | 2.7E+00 | 1.8E+02 | 8.9E-01 | 1.0E+01 |
| 42 | 1.2E+06 | 6.4E+03 | 3.2E+02 | 1.2E+02 | 1.8E+03 | 2.2E-01 | 1.5E+01 | 9.0E-03 | 4.7E-03 | 9.8E+01 | 5.5E-01 | 2.3E+01 | 2.7E+00 | 1.9E+01 | 1.8E+02 | 9.0E-01 | 1.0E+01 |
| 43 | 1.1E+06 | 7.7E+03 | 3.2E+01 | 2.7E+01 | 2.7E+01 | 4.0E-01 | 8.6E-01 | 5.0E-04 | 2.6E-04 | 5.5E+00 | 3.1E-02 | 1.3E+00 | 1.5E-01 | 1.1E+00 | 1.0E+01 | 5.8E-01 | 5.8E-01 |
| 44 | 5.6E+05 | 3.2E+03 | 5.0E+02 | 1.1E+02 | 2.0E+03 | 2.2E-02 | 8.4E+00 | 4.9E-03 | 2.5E-03 | 5.3E+01 | 3.0E-01 | 1.5E+00 | 1.5E+00 | 1.0E+00 | 1.0E+02 | 4.9E-01 | 5.7E+00 |
| 45 | 4.8E+05 | 2.8E+03 | 4.4E+02 | 9.8E+01 | 1.7E+03 | 1.9E-02 | 9.3E+00 | 5.5E-03 | 2.8E-03 | 6.0E+01 | 3.3E-01 | 1.4E+01 | 1.6E+00 | 1.2E+01 | 1.1E+02 | 5.4E-01 | 6.3E+00 |
| 46 | 4.5E+05 | 2.6E+03 | 4.0E+02 | 9.1E+01 | 1.6E+03 | 1.8E-02 | 1.3E+01 | 7.7E+00 | 4.0E-03 | 8.4E+01 | 4.7E-01 | 2.0E+01 | 2.3E+00 | 1.6E+01 | 1.6E+02 | 7.6E-01 | 8.9E+00 |
| 47 | 6.3E+05 | 3.6E+03 | 5.7E+02 | 1.3E+02 | 2.2E+03 | 2.5E-02 | 1.4E+01 | 8.0E-03 | 4.2E-03 | 8.8E+01 | 4.9E-01 | 2.8E+01 | 2.4E+00 | 1.7E+01 | 1.6E+02 | 7.9E-01 | 9.3E+00 |
| 48 | 2.3E+05 | 2.6E+02 | 1.5E-01 | 6.4E-04 | 5.2E-02 | 4.3E-02 | 4.3E-02 | 2.5E-05 | 1.3E-05 | 2.7E-01 | 1.5E-03 | 6.4E-02 | 7.5E-03 | 5.4E-02 | 5.2E-01 | 5.2E-01 | 2.9E-02 |
| 49 | 2.6E+05 | 3.0E+01 | 8.3E-01 | 7.6E+01 | 6.2E+00 | 1.8E-02 | 1.1E+00 | 6.1E-01 | 9.4E-05 | 2.0E+00 | 1.1E-02 | 4.6E-01 | 5.4E-02 | 3.9E-01 | 4.3E-01 | 1.8E-02 | 1.7E-01 |
| 50 | 9.8E+05 | 3.1E+01 | 7.6E+01 | 6.2E+00 | 2.1E-02 | 1.3E+00 | 6.9E-04 | 4.6E+00 | 4.8E-05 | 1.0E+00 | 5.4E-02 | 2.2E+00 | 4.5E-02 | 3.2E-01 | 1.9E+00 | 9.2E-02 | 1.5E-02 |
| 51 | 4.0E+05 | 1.5E+03 | 5.8E+01 | 2.2E+01 | 5.0E+02 | 8.7E-02 | 1.5E+00 | 8.3E-01 | 4.5E-04 | 9.5E+00 | 5.3E-02 | 1.2E+00 | 2.6E-01 | 1.9E+00 | 1.8E+01 | 8.6E-02 | 1.0E+00 |
| Phase Totals | 2.6E+07 | 9.1E+04 | 6.6E+03 | 1.9E+03 | 5.1E+04 | 2.4E+00 | 3.6E+02 | 2.1E-01 | 1.1E-01 | 2.3E+03 | 1.3E+01 | 5.4E+02 | 6.3E+01 | 4.5E+02 | 4.3E+03 | 2.1E+01 | 2.4E+02 |

Table A-3: Total Liquid Phase Radionuclide Inventory, Continued

| Tank | Total Supernate Volume, gal | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Am-243 (Ci) | Cm-242 (Ci) | Cm-243 (Ci) | Cm-247 (Ci) | Cm-248 (Ci) | Bk-249 (Ci) | Cf-249 (Ci) | Cf-251 (Ci) | Cf-252 (Ci) |
|--------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 1.5E+05 | 9.9E-09 | 1.5E-04 | 2.4E-08 | 5.1E-05 | 1.2E-06 | 6.7E-08 | 6.2E-06 | 3.5E-02 | 6.1E-03 | 1.4E-03 | 2.8E-13 | 2.9E-13 | 2.1E-20 | 1.6E-12 | 5.5E-14 | 1.8E-15 |
| 2 | 1.6E+05 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.6E-05 | 1.3E-06 | 7.3E-08 | 6.8E-06 | 1.4E-02 | 2.5E-03 | 5.8E-04 | 1.1E-13 | 1.2E-13 | 8.6E-21 | 6.5E-13 | 2.2E-14 | 7.2E-16 |
| 3 | 1.6E+05 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.6E-05 | 1.3E-06 | 7.3E-08 | 6.8E-06 | 1.5E-02 | 2.5E-03 | 5.9E-04 | 1.1E-13 | 1.2E-13 | 8.7E-21 | 6.6E-13 | 2.3E-14 | 7.3E-16 |
| 4 | 2.9E+05 | | | | | | | | 2.4E-03 | 4.1E-04 | 9.7E-05 | 1.9E-14 | 1.9E-14 | 1.4E-21 | 1.1E-13 | 3.7E-15 | 1.2E-16 |
| 5 | 1.6E+05 | 6.3E-10 | | 2.9E-11 | | 7.7E-08 | 8.1E-11 | 2.2E-09 | 8.2E-03 | 1.4E-15 | 6.4E-26 | 6.7E-26 | 4.9E-33 | 3.7E-25 | 1.3E-26 | 4.1E-28 | |
| 6 | 1.6E+05 | 2.0E-10 | | 1.0E-11 | | 2.4E-08 | 2.9E-11 | 4.4E-09 | 7.8E-15 | 1.3E-15 | 3.1E-16 | 6.1E-26 | 6.3E-26 | 4.6E-33 | 3.5E-25 | 1.2E-26 | 3.9E-28 |
| 7 | 4.3E+05 | 2.9E-08 | 4.2E-04 | 6.9E-08 | 1.5E-04 | 3.5E-06 | 1.9E-07 | 1.8E-05 | 4.0E-03 | 6.8E-04 | 1.6E-04 | 3.1E-14 | 3.2E-14 | 2.4E-21 | 1.8E-13 | 6.1E-15 | 2.0E-16 |
| 8 | 4.4E+05 | 4.5E-09 | 7.1E-04 | 1.1E-08 | 5.7E-05 | 5.5E-07 | 3.1E-08 | 5.0E-06 | 3.6E-03 | 6.2E-04 | 1.5E-04 | 2.8E-14 | 2.9E-14 | 2.1E-21 | 1.6E-13 | 5.6E-15 | 1.8E-16 |
| 9 | 1.8E+05 | 6.4E-09 | 9.8E-05 | 1.8E-08 | 5.7E-05 | 7.8E-07 | 4.9E-08 | 9.0E-07 | 1.5E-02 | 2.6E-03 | 6.1E-04 | 1.2E-13 | 1.2E-13 | 9.0E-21 | 6.8E-13 | 2.3E-14 | 7.6E-16 |
| 10 | 6.5E+04 | 2.4E-09 | 3.7E-05 | 6.6E-09 | 2.1E-05 | 2.9E-07 | 1.8E-08 | 3.4E-07 | 9.8E-04 | 1.7E-04 | 4.0E-05 | 7.7E-15 | 8.0E-15 | 5.8E-22 | 4.4E-14 | 1.5E-15 | 4.9E-17 |
| 11 | 3.4E+05 | 1.7E-09 | 6.4E-06 | 3.2E-09 | 2.6E-06 | 2.1E-07 | 9.0E-09 | 4.1E-06 | 2.9E-04 | 5.0E-05 | 1.2E-05 | 2.3E-15 | 2.4E-15 | 1.7E-22 | 1.3E-14 | 4.5E-16 | 1.5E-17 |
| 12 | 1.8E+05 | 1.9E-09 | 3.3E-04 | 3.7E-09 | 2.6E-05 | 2.4E-07 | 1.0E-08 | 2.0E-06 | 1.3E-03 | 2.2E-04 | 5.1E-05 | 9.9E-15 | 1.0E-14 | 7.5E-22 | 5.7E-14 | 2.0E-15 | 6.3E-17 |
| 13 | 7.1E+05 | 2.6E-08 | 4.0E-04 | 7.2E-08 | 2.3E-04 | 3.2E-06 | 2.0E-07 | 3.7E-06 | 1.1E-01 | 1.8E-02 | 4.3E-03 | 8.2E-13 | 8.6E-13 | 6.3E-20 | 4.7E-12 | 1.6E-13 | 5.3E-15 |
| 14 | 5.8E+04 | 1.5E-09 | 1.4E-04 | 1.2E-08 | 1.4E-05 | 1.8E-07 | 3.4E-08 | 2.1E-07 | 1.2E-02 | 2.0E-03 | 4.7E-04 | 9.1E-14 | 9.5E-14 | 6.9E-21 | 4.7E-13 | 1.8E-14 | 5.9E-16 |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 2.8E+03 | 2.1E-09 | | 2.9E-09 | 4.0E-06 | 2.6E-07 | 8.0E-09 | 2.5E-06 | 9.6E-10 | 1.6E-10 | 3.9E-11 | 7.5E-21 | 7.8E-21 | 5.7E-28 | 4.3E-20 | 1.5E-21 | 4.8E-23 |
| 18 | 2.2E+03 | 6.1E-10 | | 1.6E-09 | 1.5E-05 | 7.4E-08 | 4.6E-09 | 9.6E-06 | 1.2E-08 | 2.0E-09 | 4.7E-10 | 9.1E-20 | 9.5E-20 | 6.9E-27 | 5.2E-19 | 1.8E-20 | 5.8E-22 |
| 19 | 1.3E+06 | 1.0E-07 | 1.4E-06 | 2.1E-07 | 1.2E-04 | 1.3E-05 | 4.6E-07 | 5.9E-07 | 3.6E-03 | 6.1E-04 | 1.4E-04 | 2.8E-14 | 2.9E-14 | 2.1E-21 | 1.6E-13 | 5.5E-15 | 1.8E-16 |
| 21 | 1.2E+06 | 1.3E-07 | | 1.7E-07 | 4.7E-04 | 1.6E-05 | 5.8E-07 | | 8.3E-05 | 1.4E-05 | 3.4E-06 | 6.5E-16 | 6.7E-16 | 4.9E-23 | 3.7E-15 | 1.3E-16 | 4.1E-18 |
| 22 | 1.3E+06 | 1.0E-06 | | 3.3E-07 | | 8.5E-04 | 9.1E-07 | | 3.1E-03 | 5.3E-04 | 1.2E-04 | 2.4E-14 | 2.5E-14 | 1.8E-21 | 1.4E-13 | 4.8E-15 | 1.5E-16 |
| 24 | 1.0E+06 | 6.8E-07 | | 9.5E-07 | | 8.3E-05 | 2.6E-06 | 1.6E-03 | 8.6E-02 | 1.5E-02 | 3.5E-03 | 6.7E-13 | 7.0E-13 | 5.1E-20 | 3.9E-12 | 1.3E-15 | 4.3E-15 |
| 25 | 8.3E+05 | 5.7E-14 | | 1.7E-06 | 2.2E-11 | 6.9E-12 | 4.7E-06 | 1.5E-04 | 1.6E-02 | 2.7E-03 | 6.4E-04 | 1.2E-13 | 1.3E-13 | 9.4E-21 | 7.1E-13 | 2.4E-14 | 7.9E-16 |
| 26 | 1.2E+06 | 7.9E-14 | | 2.4E-06 | 3.1E-11 | 9.7E-12 | 6.5E-06 | 2.1E-04 | 2.7E-02 | 4.6E-03 | 1.1E-03 | 2.1E-13 | 2.2E-13 | 1.6E-20 | 1.2E-12 | 4.1E-14 | 1.3E-15 |
| 27 | 4.3E+05 | 3.0E-14 | | 8.9E-07 | 1.2E-11 | 3.6E-12 | 2.5E-06 | 7.9E-05 | 2.0E-02 | 3.4E-03 | 7.9E-04 | 1.5E-13 | 1.6E-13 | 1.2E-20 | 8.8E-13 | 3.0E-14 | 9.8E-16 |
| 28 | 5.0E+05 | 3.5E-14 | | 1.0E-06 | 1.4E-11 | 4.2E-12 | 2.9E-06 | 9.3E-05 | 2.5E-02 | 4.3E-03 | 1.0E-03 | 2.0E-13 | 2.1E-13 | 1.5E-20 | 1.1E-12 | 3.9E-14 | 1.3E-15 |
| 29 | 5.3E+05 | 2.0E-08 | 3.0E-04 | 5.4E-08 | 1.7E-04 | 2.4E-06 | 1.5E-07 | 2.8E-06 | 3.9E-03 | 6.7E-04 | 1.6E-04 | 3.0E-14 | 3.2E-14 | 2.3E-21 | 1.8E-13 | 6.0E-15 | 2.0E-16 |
| 30 | 1.1E+06 | 1.1E-07 | | 1.6E-07 | 1.4E-05 | 4.5E-07 | 4.5E-07 | 4.5E-04 | 8.8E-02 | 1.5E-02 | 3.6E-03 | 6.8E-13 | 7.1E-13 | 5.2E-20 | 4.0E-12 | 1.4E-13 | 4.4E-15 |
| 31 | 4.6E+05 | 1.7E-08 | 2.6E-04 | 6.6E-08 | 1.5E-04 | 2.1E-06 | 1.3E-07 | 2.4E-06 | 6.1E-02 | 1.1E-02 | 2.5E-03 | 4.8E-13 | 5.0E-13 | 3.6E-20 | 2.8E-12 | 9.4E-14 | 3.1E-15 |
| 32 | 7.5E+05 | 7.9E-08 | | 1.1E-07 | 9.7E-06 | 9.7E-06 | 3.2E-07 | 3.2E-04 | 4.9E-02 | 8.4E-03 | 2.0E-03 | 3.8E-13 | 4.0E-13 | 2.9E-20 | 2.2E-12 | 7.6E-14 | 2.5E-15 |
| 33 | 7.8E+05 | 5.0E-09 | | 5.2E-06 | 1.6E-10 | 6.1E-07 | 1.4E-05 | 5.4E-05 | 2.4E-02 | 4.1E-03 | 9.8E-04 | 1.9E-13 | 2.0E-13 | 1.4E-20 | 1.1E-12 | 3.7E-14 | 1.2E-15 |
| 34 | 9.7E+05 | | | 2.1E-06 | | 1.5E-05 | 3.3E-06 | 1.3E-05 | 6.4E-02 | 1.1E-02 | 2.6E-03 | 5.0E-13 | 5.2E-13 | 3.8E-20 | 2.9E-12 | 9.8E-14 | 3.2E-15 |
| 35 | 5.5E+05 | 2.0E-08 | 3.1E-04 | 5.5E-08 | 1.8E-04 | 2.4E-06 | 1.5E-07 | 2.8E-06 | 4.3E-02 | 7.4E-03 | 1.8E-03 | 3.4E-13 | 3.5E-13 | 2.6E-20 | 2.0E-12 | 6.7E-14 | 2.2E-15 |
| 36 | 4.4E+05 | 4.6E-08 | | 6.7E-08 | 5.7E-06 | 5.7E-06 | 1.9E-07 | 1.9E-04 | 9.5E-02 | 1.6E-02 | 3.8E-03 | 7.4E-13 | 7.7E-13 | 5.6E-20 | 4.3E-12 | 1.5E-13 | 4.8E-15 |
| 37 | 4.9E+05 | 3.2E-07 | | 4.5E-07 | 3.9E-05 | 3.9E-05 | 1.3E-06 | 7.8E-04 | 5.4E-03 | 9.2E-04 | 2.2E-04 | 4.2E-14 | 4.4E-14 | 3.2E-21 | 2.4E-13 | 8.3E-15 | 2.7E-16 |
| 38 | 9.3E+05 | 3.9E-07 | | 6.3E-07 | 4.8E-05 | 4.8E-05 | 1.7E-06 | 3.8E-04 | 3.5E-03 | 6.0E-04 | 5.2E-05 | 9.9E-15 | 1.0E-14 | 7.6E-22 | 5.7E-14 | 2.0E-15 | 6.4E-17 |
| 39 | 5.4E+05 | 2.0E-06 | 2.4E-02 | 2.4E-06 | 1.1E-02 | 2.4E-04 | 6.6E-06 | 1.1E-03 | 9.8E-04 | 1.7E-04 | 4.0E-05 | 7.7E-15 | 8.0E-15 | 5.8E-22 | 4.4E-14 | 1.5E-15 | 4.9E-17 |
| 41 | 5.7E+05 | 3.8E-07 | | 5.3E-07 | 3.0E-06 | 3.0E-06 | 1.5E-06 | 9.1E-04 | 3.7E-04 | 6.4E-05 | 1.5E-05 | 2.9E-15 | 3.0E-15 | 2.2E-22 | 1.7E-14 | 5.8E-16 | 1.9E-17 |
| 42 | 1.2E+06 | 2.8E-06 | 8.5E-02 | 3.0E-06 | 1.2E-02 | 3.4E-04 | 8.4E-06 | 9.9E-04 | 4.3E-02 | 7.4E-03 | 3.4E-13 | 3.5E-13 | 3.5E-13 | 2.6E-20 | 1.9E-12 | 6.7E-14 | 2.2E-15 |
| 43 | 1.1E+06 | 7.5E-07 | | 1.0E-06 | 1.5E-11 | 4.7E-12 | 3.2E-06 | 1.0E-04 | 2.3E-02 | 4.0E-03 | 9.5E-04 | 1.8E-13 | 1.9E-13 | 1.4E-21 | 1.1E-13 | 3.7E-15 | 1.2E-16 |
| 44 | 5.6E+05 | 3.8E-14 | | 1.1E-06 | 1.5E-11 | 4.7E-12 | 3.2E-06 | 1.0E-04 | 2.3E-02 | 4.0E-03 | 9.5E-04 | 1.8E-13 | 1.9E-13 | 1.4E-21 | 1.1E-13 | 3.7E-15 | 1.2E-16 |
| 45 | 4.8E+05 | 3.3E-14 | | 9.9E-07 | 1.3E-11 | 4.1E-12 | 2.8E-06 | 8.9E-05 | 2.6E-02 | 4.5E-03 | 1.1E-03 | 2.0E-13 | 2.1E-13 | 1.6E-20 | 1.2E-12 | 4.0E-14 | 1.3E-15 |
| 46 | 4.5E+05 | 3.1E-14 | | 9.2E-07 | 1.2E-11 | 3.8E-12 | 2.6E-06 | 8.2E-05 | 3.7E-02 | 4.6E-03 | 1.5E-03 | 2.9E-13 | 3.0E-13 | 2.2E-20 | 1.7E-12 | 5.9E-14 | 1.9E-15 |
| 47 | 6.3E+05 | 4.3E-14 | | 1.3E-06 | 1.7E-11 | 5.3E-12 | 3.6E-06 | 1.2E-04 | 3.8E-02 | 6.6E-03 | 1.6E-03 | 3.0E-13 | 3.1E-13 | 2.3E-20 | 1.7E-12 | 5.7E-14 | 1.8E-15 |
| 48 | 2.3E+05 | 4.3E-06 | 1.8E-06 | 2.4E-07 | 1.2E-03 | 5.3E-04 | 6.7E-07 | 1.2E-04 | 1.2E-04 | 2.1E-05 | 4.9E-06 | 9.4E-16 | 9.8E-16 | 7.2E-23 | 5.4E-15 | 1.9E-16 | 6.0E-18 |
| 49 | 2.6E+05 | 4.7E-01 | 8.8E-06 | 2.4E-07 | 1.2E-03 | 5.3E-04 | 6.7E-07 | 2.4E-04 | 8.6E-04 | 9.3E-04 | 3.5E-05 | 6.8E-15 | 7.0E-15 | 5.1E-22 | 3.9E-14 | 1.3E-15 | 4.3E-17 |
| 50 | 9.8E+05 | 8.1E-02 | 2.0E-05 | 2.8E-07 | 1.5E-03 | 2.2E-04 | 7.7E-07 | 1.0E-03 | 2.5E-02 | 5.7E-04 | 1.8E-05 | 3.5E-15 | 3.6E-15 | 2.7E-22 | 6.9E-16 | 2.2E-17 | 6.9E-16 |
| 51 | 4.0E+05 | 7.9E-07 | 1.7E-02 | 1.2E-06 | 3.0E-03 | 9.6E-05 | 3.4E-06 | 4.0E-04 | 2.9E-04 | 7.1E-04 | 1.7E-04 | 3.2E-14 | 3.4E-14 | 2.5E-21 | 1.9E-13 | 6.4E-15 | 2.1E-16 |
| Phase Totals | 2.6E+07 | 5.5E-01 | 1.3E-01 | 2.9E-05 | 3.1E-02 | 2.7E-03 | 8.1E-05 | 1.2E-02 | 1.0E+00 | 1.7E-01 | 4.1E-02 | 7.8E-12 | 8.2E-12 | 6.0E-19 | 4.5E-11 | 1.6E-12 | 5.0E-14 |

Table A-4: Free Supernatant Phase Radionuclide Inventory

| Tank | Free Supernate Volume, gal | H-3 (Ci) | C-14 (Ci) | Co-60 (Ci) | Ni-59 (Ci) | Ni-63 (Ci) | Se-79 (Ci) | Sr-90 (Ci) | Y-90 (Ci) | Nb-94 (Ci) | Tc-99 (Ci) | Ru-106 (Ci) | Rh-106 (Ci) | Sb-125 (Ci) | Sn-126 (Ci) | I-129 (Ci) |
|--------------|----------------------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-------------|-------------|-------------|-------------|------------|
| 1 | 8.1E+02 | 3.1E-01 | 5.4E-03 | 3.2E-03 | 5.3E-04 | 7.7E-03 | 1.7E-02 | 4.0E+00 | 4.0E+00 | 1.3E-07 | 6.3E+00 | 3.3E-02 | 3.0E-02 | 4.2E-01 | 8.6E-02 | 2.5E-03 |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | 9.3E+01 | 1.9E+00 | 1.1E+00 | 6.5E-03 | 2.7E+00 | 2.1E-01 | 4.8E+01 | 4.8E+01 | 1.6E-06 | 7.7E+01 | 4.0E-01 | 3.7E-01 | 5.1E+00 | 1.0E+00 | 3.1E-02 |
| 5 | 1.7E+02 | 3.4E-05 | 1.8E-03 | 1.0E-03 | 3.8E-15 | 2.5E-03 | 1.2E-13 | 2.8E-11 | 2.8E-11 | 9.4E-19 | 4.5E-11 | 2.3E-13 | 2.2E-13 | 3.0E-12 | 6.1E-13 | 1.8E-14 |
| 6 | 2.7E+02 | 8.0E-03 | 1.1E-03 | 6.6E-04 | 2.3E-15 | 1.6E-03 | 7.4E-14 | 1.7E-11 | 1.7E-11 | 5.7E-19 | 2.7E-11 | 1.4E-13 | 1.3E-13 | 1.8E-12 | 3.7E-13 | 1.1E-14 |
| 7 | 4.1E+05 | 2.7E+02 | 2.8E+00 | 1.6E+00 | 1.1E-02 | 3.9E+00 | 3.4E-01 | 7.8E+01 | 7.8E+01 | 2.6E-06 | 1.3E+02 | 6.4E-01 | 6.0E-01 | 8.3E+00 | 1.7E+00 | 5.0E-02 |
| 8 | 4.2E+05 | 1.5E+02 | 2.8E+00 | 1.7E+00 | 9.7E-03 | 4.0E+00 | 3.1E-01 | 7.2E+01 | 2.4E-06 | 1.1E+02 | 1.1E+02 | 5.9E-01 | 5.5E-01 | 7.6E+00 | 1.6E+00 | 4.6E-02 |
| 9 | 1.3E+04 | 4.9E+00 | 8.7E-02 | 5.1E-02 | 3.1E-03 | 1.2E-01 | 9.9E-02 | 2.3E+01 | 2.3E+01 | 7.7E-07 | 3.7E+01 | 1.9E-01 | 1.8E-01 | 2.4E+00 | 5.0E-01 | 1.5E-02 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | 3.3E+05 | 1.3E+02 | 2.2E+00 | 1.3E+00 | 7.9E-04 | 3.2E+00 | 2.5E-02 | 5.9E+00 | 5.9E+00 | 2.0E-07 | 9.5E+00 | 4.9E-02 | 4.5E-02 | 6.3E-01 | 1.3E-01 | 3.8E-03 |
| 12 | 1.7E+05 | 6.4E+01 | 1.1E+00 | 6.6E-01 | 3.3E-03 | 1.6E+00 | 1.1E-01 | 2.5E+01 | 2.5E+01 | 8.2E-07 | 3.9E+01 | 2.0E-01 | 1.9E-01 | 2.6E+00 | 5.4E-01 | 1.6E-02 |
| 13 | 5.2E+05 | 2.1E+02 | 3.5E+00 | 2.0E+00 | 2.1E-01 | 4.9E+00 | 6.8E+00 | 1.6E+03 | 1.6E+03 | 5.3E-05 | 2.5E+03 | 1.3E+01 | 1.2E+01 | 1.7E+02 | 3.4E+01 | 1.0E+00 |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | 8.7E+02 | 3.3E-01 | 5.8E-03 | 3.4E-03 | 1.2E-08 | 8.3E-03 | 4.0E-07 | 9.3E-05 | 9.3E-05 | 3.1E-12 | 1.5E-04 | 7.7E-07 | 7.1E-07 | 9.8E-06 | 2.0E-06 | 5.9E-08 |
| 20 | 1.3E+06 | 1.1E+01 | 8.4E+00 | 4.9E+00 | 9.6E-03 | 1.2E+01 | 3.1E-01 | 7.1E+01 | 7.1E+01 | 2.4E-06 | 1.1E+02 | 5.9E-01 | 5.5E-01 | 7.5E+00 | 1.6E+00 | 4.6E-02 |
| 21 | 1.1E+06 | 9.7E+00 | 7.6E+00 | 4.4E+00 | 2.2E-04 | 1.1E+01 | 7.0E-03 | 1.6E+00 | 1.6E+00 | 5.4E-08 | 2.6E+00 | 1.3E-02 | 1.2E-02 | 1.7E-01 | 3.5E-02 | 1.0E-03 |
| 22 | 1.2E+06 | 9.9E+00 | 7.8E+00 | 4.5E+00 | 7.9E-03 | 1.1E+01 | 2.5E-01 | 1.4E+01 | 1.4E+01 | 2.0E-06 | 2.9E+01 | 4.9E-01 | 4.5E-01 | 6.2E+00 | 1.3E+00 | 3.8E-02 |
| 23 | 1.0E+06 | 3.9E+02 | 6.8E+00 | 4.0E+00 | 2.4E-01 | 9.7E+00 | 7.6E+00 | 1.8E+03 | 1.8E+03 | 5.9E-05 | 2.8E+03 | 1.5E+01 | 1.4E+01 | 1.9E+02 | 3.9E+01 | 1.1E+00 |
| 24 | 6.8E+05 | 2.6E+02 | 4.5E+00 | 2.6E+00 | 3.6E-02 | 6.4E+00 | 1.1E+00 | 2.6E+02 | 2.6E+02 | 8.8E-06 | 4.5E+02 | 2.2E+00 | 2.0E+00 | 2.8E+01 | 5.8E+00 | 1.7E-01 |
| 25 | 9.6E+05 | 1.4E+02 | 6.4E+00 | 3.7E+00 | 6.1E-02 | 9.0E+00 | 2.0E+00 | 4.5E+02 | 4.5E+02 | 1.5E-05 | 7.3E+02 | 3.7E+00 | 3.5E+00 | 4.8E+01 | 9.9E+00 | 2.9E-01 |
| 26 | 8.3E+04 | 7.4E+01 | 1.3E+00 | 7.6E-01 | 1.0E-02 | 7.8E-01 | 3.3E-01 | 7.7E+01 | 7.7E+01 | 2.6E-06 | 1.2E+02 | 6.4E-01 | 5.9E-01 | 8.2E+00 | 1.7E+00 | 4.9E-02 |
| 27 | 2.0E+05 | 7.4E+01 | 1.5E+00 | 8.9E-01 | 4.6E-03 | 2.2E+00 | 1.5E-01 | 3.4E+01 | 3.4E+01 | 6.7E-06 | 3.2E+02 | 1.7E+00 | 1.5E+00 | 2.1E+01 | 4.4E+00 | 1.3E-01 |
| 28 | 2.3E+05 | 8.6E+01 | 6.4E+00 | 3.8E+00 | 2.2E-01 | 9.1E+00 | 7.1E+00 | 1.6E+03 | 1.6E+03 | 5.5E-05 | 2.6E+03 | 1.4E+01 | 1.3E+01 | 3.6E+01 | 7.4E-01 | 2.2E-02 |
| 29 | 9.7E+05 | 3.3E+01 | 4.2E+00 | 2.5E+00 | 5.3E-02 | 6.1E+00 | 1.8E+00 | 4.1E+02 | 4.1E+02 | 2.8E-05 | 1.4E+03 | 7.0E+00 | 6.5E+00 | 9.0E+01 | 1.9E+01 | 5.4E-01 |
| 30 | 1.2E+05 | 4.4E+01 | 7.7E-01 | 4.5E-01 | 4.3E-02 | 1.1E+00 | 1.4E+00 | 3.2E+02 | 3.2E+02 | 1.1E-05 | 5.1E+02 | 2.6E+00 | 2.4E+00 | 3.4E+01 | 6.9E+00 | 2.0E-01 |
| 31 | 6.3E+05 | 2.6E+01 | 4.2E+00 | 2.5E+00 | 1.1E-01 | 6.0E+00 | 3.7E+00 | 8.5E+02 | 8.5E+02 | 2.8E-05 | 1.4E+03 | 7.0E+00 | 6.5E+00 | 9.0E+01 | 1.9E+01 | 5.4E-01 |
| 32 | 6.4E+05 | 5.1E+01 | 6.0E+00 | 3.5E+00 | 1.6E-01 | 8.6E+00 | 3.6E+00 | 1.2E+03 | 1.2E+03 | 4.1E-05 | 2.0E+03 | 1.0E+01 | 9.4E+00 | 1.3E+02 | 2.7E+01 | 7.8E-01 |
| 33 | 9.0E+05 | 7.7E+01 | 7.2E+00 | 4.2E+00 | 1.1E-01 | 1.0E+01 | 3.6E+00 | 8.4E+02 | 8.4E+02 | 2.8E-05 | 1.3E+03 | 6.9E+00 | 6.4E+00 | 8.9E+01 | 1.8E+01 | 5.4E-01 |
| 34 | 1.1E+06 | 4.1E+02 | 1.6E+00 | 9.2E-01 | 1.1E-01 | 2.2E+00 | 3.6E+00 | 8.4E+02 | 8.4E+02 | 2.8E-05 | 1.3E+03 | 6.9E+00 | 6.4E+00 | 8.9E+01 | 1.8E+01 | 5.4E-01 |
| 35 | 2.3E+05 | 4.7E+00 | 7.7E-01 | 4.5E-01 | 3.9E-03 | 1.1E+00 | 1.3E-01 | 2.9E+01 | 2.9E+01 | 9.7E-07 | 4.6E+01 | 2.4E-01 | 2.2E-01 | 3.1E+00 | 6.3E-01 | 1.9E-02 |
| 36 | 1.2E+05 | 4.2E+01 | 1.6E+00 | 9.5E-01 | 1.8E-03 | 2.3E+00 | 5.7E-02 | 1.3E+01 | 1.3E+01 | 4.4E-07 | 2.1E+01 | 1.1E-01 | 1.0E-01 | 1.4E+00 | 2.9E-01 | 8.4E-03 |
| 37 | 2.4E+05 | 7.3E+01 | 5.6E+00 | 3.3E+00 | 8.6E-03 | 7.9E+00 | 2.8E-01 | 6.4E+01 | 6.4E+01 | 2.1E-06 | 1.0E+02 | 5.3E-01 | 4.9E-01 | 6.8E+00 | 1.4E+00 | 4.1E-02 |
| 38 | 1.0E+05 | 4.2E-01 | 6.9E-01 | 4.1E-01 | 5.2E-04 | 9.9E-01 | 1.7E-02 | 3.9E+00 | 3.9E+00 | 1.3E-07 | 6.2E+00 | 3.2E-02 | 3.0E-02 | 4.1E-01 | 8.5E-02 | 2.5E-03 |
| 39 | 3.9E+05 | 1.5E+02 | 2.6E+00 | 1.5E+00 | 7.1E-04 | 3.7E+00 | 2.3E-02 | 5.3E+00 | 5.3E+00 | 1.8E-07 | 8.4E+00 | 4.3E-02 | 4.0E-02 | 5.6E-01 | 1.1E-01 | 3.4E-03 |
| 40 | 1.2E+06 | 4.4E+02 | 7.8E+00 | 4.6E+00 | 1.2E-01 | 1.1E+01 | 3.8E+00 | 8.8E+02 | 8.8E+02 | 2.9E-05 | 1.4E+03 | 7.2E+00 | 6.7E+00 | 9.3E+01 | 1.9E+01 | 5.6E-01 |
| 41 | 2.5E+05 | 9.6E+01 | 1.7E+00 | 9.9E-01 | 3.0E-02 | 2.4E+00 | 9.5E-01 | 2.2E+02 | 2.2E+02 | 7.3E-06 | 6.7E+01 | 3.5E-01 | 3.2E-01 | 4.5E+00 | 9.2E-01 | 2.7E-02 |
| 42 | 1.5E+05 | 1.4E+01 | 1.0E+00 | 6.0E-01 | 2.3E-02 | 1.4E+00 | 7.3E-01 | 1.7E+02 | 1.7E+02 | 5.6E-06 | 2.7E+02 | 1.8E+00 | 1.7E+00 | 2.3E+01 | 4.8E+00 | 1.4E-01 |
| 43 | 2.4E+05 | 5.1E+00 | 6.8E-01 | 4.0E-01 | 2.3E-02 | 9.6E-01 | 7.4E-01 | 1.7E+02 | 1.7E+02 | 5.7E-06 | 2.7E+02 | 1.4E+00 | 1.3E+00 | 1.8E+01 | 3.7E+00 | 1.1E-01 |
| 44 | 1.0E+05 | 1.6E+01 | 1.5E+00 | 8.7E-01 | 3.8E-02 | 2.1E+00 | 1.2E+00 | 2.8E+02 | 2.8E+02 | 9.3E-06 | 4.5E+02 | 2.3E+00 | 2.1E+00 | 3.0E+01 | 6.1E+00 | 1.8E-01 |
| 45 | 2.2E+05 | 9.2E+01 | 1.6E+00 | 9.5E-01 | 3.6E-04 | 2.3E+00 | 1.2E-02 | 2.7E+00 | 2.7E+00 | 8.9E-08 | 3.5E+01 | 2.2E-02 | 2.0E-02 | 2.8E-01 | 5.8E-02 | 1.7E-03 |
| 46 | 2.6E+05 | 2.4E+00 | 9.0E-01 | 7.2E-03 | 4.0E-01 | 1.3E-01 | 5.9E-02 | 2.6E+02 | 2.6E+02 | 5.9E-07 | 5.0E+01 | 2.4E-02 | 2.4E-02 | 3.3E-02 | 2.5E-01 | 1.3E-02 |
| 47 | 9.8E+05 | 2.2E+00 | 1.2E+00 | 1.2E-02 | 1.2E-03 | 1.5E-01 | 5.0E-01 | 2.0E+02 | 2.0E+02 | 3.1E-07 | 1.1E+02 | 2.6E-02 | 2.6E-02 | 5.0E+00 | 3.2E-01 | 2.1E-02 |
| 48 | 2.6E+05 | 1.0E+00 | 1.7E+00 | 1.0E+00 | 7.4E-03 | 2.4E+00 | 2.4E-01 | 5.5E+01 | 5.5E+01 | 1.8E-06 | 8.8E+01 | 4.5E-01 | 4.2E-01 | 5.8E+00 | 1.2E+00 | 3.5E-02 |
| 49 | 2.0E+07 | 3.5E+03 | 1.3E+02 | 7.2E+01 | 2.1E+00 | 1.8E+02 | 5.6E+01 | 1.3E+04 | 1.3E+04 | 4.3E-04 | 2.1E+04 | 1.1E+02 | 9.8E+01 | 1.4E+03 | 2.8E+02 | 8.2E+00 |
| Phase Totals | | | | | | | | | | | | | | | | |

Table A-4: Free Supernatant Phase Radionuclide Inventory, Continued

| Tank | Free Supernatant Volume, gal | Cs-134 (Ci) | Cs-135 (Ci) | Cs-137 (Ci) | Ba-137m (Ci) | Ce-144 (Ci) | Pr-144 (Ci) | Pm-147 (Ci) | Eu-154 (Ci) | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | |
|--------------|------------------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|--|
| 1 | 8.1E+02 | 1.5E+01 | 6.6E-02 | 1.6E+04 | 1.5E+04 | 1.2E-04 | 1.1E-04 | 1.9E-01 | 9.9E-02 | 7.9E-07 | 2.6E-07 | 9.8E-05 | 2.4E-05 | 5.7E-07 | 2.3E-07 | 1.6E-05 | 1.9E-05 | |
| 2 | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | 1.8E+02 | 8.0E-01 | 2.0E+05 | 1.8E+05 | 1.4E-03 | 1.4E-03 | 2.3E+00 | 1.2E+00 | | | | | | | 3.7E-07 | 8.8E-06 | |
| 5 | 2.7E+02 | 1.1E-10 | 4.7E-13 | 1.1E-07 | 1.1E-07 | 8.5E-16 | 8.2E-16 | 1.3E-12 | 7.0E-13 | | 1.2E-07 | | 4.7E-05 | 2.1E-08 | | 1.3E-07 | 1.8E-06 | |
| 6 | 1.7E+02 | 6.5E-11 | 2.8E-13 | 7.0E-08 | 6.6E-08 | 5.1E-16 | 5.0E-16 | 8.0E-13 | 4.3E-13 | | 4.5E-08 | | 9.3E-06 | 4.8E-09 | | 1.3E-07 | 9.9E-03 | |
| 7 | 4.1E+05 | 3.0E+02 | 1.3E+00 | 3.2E+05 | 3.0E+05 | 2.4E-03 | 2.3E-03 | 3.7E+00 | 2.0E+00 | 4.1E-04 | 1.3E-04 | 5.0E-02 | 1.2E-02 | 2.9E-04 | 1.2E-04 | 8.3E-03 | 4.3E-03 | |
| 8 | 4.2E+05 | 2.7E+02 | 1.2E+00 | 2.9E+05 | 2.8E+05 | 2.2E-03 | 2.1E-03 | 3.4E+00 | 1.8E+00 | 6.9E-04 | 1.1E-05 | 1.9E-02 | 1.9E-03 | 4.7E-05 | 1.6E-04 | 7.3E-04 | 5.4E-04 | |
| 9 | 1.3E+04 | 8.7E+01 | 3.8E-01 | 9.4E+04 | 8.9E+04 | 6.9E-04 | 6.7E-04 | 1.1E+00 | 5.8E-01 | 7.3E-06 | 1.8E-06 | 1.3E-03 | 2.1E-04 | 5.8E-06 | 2.2E-05 | 6.7E-05 | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | 3.3E+05 | 2.2E+01 | 9.8E-02 | 2.4E+04 | 2.3E+04 | 1.8E-04 | 1.7E-04 | 2.8E-01 | 1.5E-01 | 6.3E-06 | 9.0E-04 | 9.0E-04 | 7.4E-04 | 1.4E-05 | 1.1E-04 | 2.6E-05 | 4.9E-04 | |
| 12 | 1.7E+05 | 9.3E+01 | 4.1E-01 | 1.0E+05 | 9.5E+04 | 7.4E-04 | 7.1E-04 | 1.2E+00 | 6.1E-01 | 3.1E-04 | 2.9E-06 | 8.7E-03 | 8.2E-04 | 1.5E-05 | 6.5E-05 | 1.5E-04 | 1.8E-03 | |
| 13 | 5.2E+05 | 6.0E+03 | 2.6E+01 | 6.4E+06 | 6.1E+06 | 4.7E-02 | 4.6E-02 | 7.4E+01 | 3.9E+01 | 2.9E-04 | 7.3E-05 | 5.9E-02 | 8.4E-03 | 2.3E-04 | 8.6E-04 | 2.7E-03 | 2.2E-02 | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 18 | 8.7E+02 | 3.5E-04 | 1.5E-06 | 3.8E-01 | 3.6E-01 | 2.8E-09 | 2.7E-09 | 4.4E-06 | 2.3E-06 | | 4.7E-07 | 2.1E-03 | 1.0E-04 | 2.8E-06 | 6.3E-06 | 9.4E-05 | 2.4E-05 | |
| 19 | 1.3E+06 | 2.7E+02 | 1.2E+00 | 2.9E+05 | 2.7E+05 | 2.1E-03 | 2.1E-03 | 3.3E+00 | 1.8E+00 | 1.3E-06 | | 4.2E-02 | 4.5E-02 | 7.1E-04 | 8.2E-03 | 4.2E-03 | 3.7E-02 | |
| 21 | 1.1E+06 | 6.2E+00 | 2.7E-02 | 6.6E+03 | 6.3E+03 | 4.9E-05 | 4.7E-05 | 7.6E-02 | 4.1E-02 | | | 1.6E-01 | 5.7E-02 | 8.7E-04 | 9.4E-03 | 1.9E-02 | 3.5E-02 | |
| 22 | 1.2E+06 | 2.2E+02 | 9.8E-01 | 2.4E+05 | 2.3E+05 | 1.8E-03 | 1.7E-03 | 2.8E+00 | 1.5E+00 | | | | 2.9E+00 | 1.3E-03 | 2.9E-02 | 8.5E-03 | 3.2E-01 | |
| 23 | 1.0E+06 | 6.7E+03 | 2.9E+01 | 7.2E+06 | 6.8E+06 | 5.3E-02 | 5.1E-02 | 8.3E+01 | 4.4E+01 | | | | 3.0E-01 | 4.1E-03 | 5.7E-02 | 3.4E-04 | 3.2E-01 | |
| 24 | 6.8E+05 | 1.0E+03 | 4.4E+00 | 1.1E+06 | 1.0E+06 | 8.0E-03 | 7.7E-03 | 1.2E+01 | 6.6E+00 | | 2.0E-03 | 6.5E-09 | 2.1E-08 | 6.1E-03 | 7.9E-04 | 7.3E-01 | 1.9E-03 | |
| 25 | 9.6E+05 | 1.7E+03 | 7.5E+00 | 1.8E+06 | 1.7E+06 | 1.4E-02 | 1.3E-02 | 2.1E+01 | 1.1E+01 | | 2.8E-03 | 9.1E-09 | 2.9E-08 | 8.6E-03 | 1.1E-03 | 1.0E+00 | 2.7E-03 | |
| 26 | 8.3E+04 | 2.9E+02 | 1.3E+00 | 3.1E+05 | 3.0E+05 | 2.3E-03 | 2.2E-03 | 3.6E+00 | 1.9E+00 | | 2.4E-04 | 7.9E-10 | 2.5E-09 | 7.5E-04 | 9.6E-05 | 8.9E-02 | 2.3E-04 | |
| 27 | 2.0E+05 | 7.6E+02 | 3.3E+00 | 8.2E+05 | 7.7E+05 | 6.0E-03 | 5.8E-03 | 9.4E+00 | 5.0E+00 | | 5.8E-04 | 1.9E-09 | 5.9E-09 | 1.8E-03 | 2.3E-04 | 2.1E-01 | 5.4E-04 | |
| 28 | 2.3E+05 | 1.3E+02 | 5.7E-01 | 1.4E+05 | 1.3E+05 | 1.0E-03 | 9.9E-04 | 1.6E+00 | 8.5E-01 | 1.3E-04 | 3.2E-05 | 2.6E-02 | 3.7E-03 | 1.0E-04 | 3.8E-04 | 1.2E-03 | 9.5E-03 | |
| 29 | 9.7E+05 | 6.3E+03 | 2.7E+01 | 6.7E+06 | 6.3E+06 | 5.0E-02 | 4.9E-02 | 7.7E+01 | 4.1E+01 | | | 4.6E-02 | 6.5E-04 | 1.0E-02 | 3.1E-04 | 1.9E-02 | 4.8E-03 | |
| 30 | 1.2E+05 | 1.2E+03 | 5.3E+00 | 1.3E+06 | 1.2E+06 | 9.6E-03 | 9.2E-03 | 1.5E+01 | 7.9E+00 | 6.5E-05 | 1.6E-05 | 1.3E-02 | 1.9E-03 | 5.1E-05 | 1.9E-04 | 6.0E-04 | 1.2E-02 | |
| 31 | 6.3E+05 | 3.2E+03 | 1.4E+01 | 3.5E+06 | 3.3E+06 | 2.6E-02 | 2.5E-02 | 4.0E+01 | 2.1E+01 | | | | 3.0E-02 | 4.3E-04 | 6.7E-03 | 2.0E-04 | 1.2E-02 | |
| 32 | 6.4E+05 | 1.5E+03 | 6.7E+00 | 1.7E+06 | 1.6E+06 | 1.2E-02 | 1.2E-02 | 1.9E+01 | 1.0E+01 | | 1.0E-02 | 4.8E-08 | 1.8E-03 | 1.9E-02 | 1.0E-02 | 2.7E+00 | 8.3E-01 | |
| 33 | 9.0E+05 | 4.6E+03 | 2.0E+01 | 5.0E+06 | 4.7E+06 | 3.7E-02 | 3.5E-02 | 5.7E+01 | 3.1E+01 | | 4.5E-03 | | 4.8E-03 | 4.8E-03 | 3.4E-01 | 3.4E-01 | 2.6E-01 | |
| 34 | 1.1E+06 | 3.2E+03 | 1.4E+01 | 3.4E+06 | 3.2E+06 | 2.5E-02 | 2.4E-02 | 4.0E+01 | 2.1E+01 | | | | 5.0E-02 | 8.7E-04 | 1.5E-02 | 5.1E-04 | 1.8E-02 | |
| 35 | 2.3E+05 | 3.2E+03 | 1.4E+01 | 3.4E+06 | 3.2E+06 | 2.5E-02 | 2.4E-02 | 4.0E+01 | 2.1E+01 | 1.3E-04 | 3.3E-05 | 2.7E-02 | 3.8E-03 | 1.0E-04 | 3.9E-04 | 1.2E-03 | 9.8E-03 | |
| 36 | 1.2E+05 | 1.1E+02 | 4.8E-01 | 1.2E+06 | 1.1E+06 | 8.4E-04 | 8.4E-04 | 1.4E+00 | 7.3E-01 | | | | 5.4E-03 | 7.8E-05 | 1.2E-03 | 3.6E-05 | 2.2E-03 | |
| 37 | 2.4E+05 | 5.0E+01 | 2.2E-01 | 5.4E+04 | 5.1E+04 | 4.0E-04 | 3.8E-04 | 6.2E-01 | 3.3E-01 | | | | 7.2E-02 | 9.9E-04 | 1.4E-02 | 8.0E-05 | 7.7E-02 | |
| 38 | 8.4E+05 | 2.4E+02 | 1.1E+00 | 2.6E+05 | 2.5E+05 | 1.9E-03 | 1.9E-03 | 3.0E+00 | 1.6E+00 | | | | 1.6E-01 | 2.5E-03 | 2.7E-02 | 2.9E-04 | 9.6E-02 | |
| 39 | 1.0E+05 | 1.5E+01 | 6.4E-02 | 1.6E+04 | 1.5E+04 | 1.2E-04 | 1.1E-04 | 1.8E-01 | 9.7E-02 | 4.6E-03 | 6.1E-04 | 7.7E-01 | 1.7E-01 | 2.0E-03 | 1.5E-03 | 4.6E-02 | 1.0E-01 | |
| 40 | 3.9E+05 | 2.0E+01 | 8.7E-02 | 2.1E+04 | 2.0E+04 | 1.6E-04 | 1.5E-04 | 2.5E-01 | 1.3E-01 | | | 1.2E-01 | 1.2E-01 | 1.6E-03 | 2.2E-02 | 1.3E-04 | 1.2E-01 | |
| 41 | 1.2E+06 | 3.3E+03 | 1.5E+01 | 3.6E+06 | 3.4E+06 | 2.6E-02 | 2.5E-02 | 4.1E+01 | 2.2E+01 | 8.4E-02 | 3.1E-03 | 4.1E+00 | 1.2E+00 | 1.3E-02 | 3.4E-02 | 2.6E-01 | 4.8E-01 | |
| 42 | 9.7E+05 | 1.6E+02 | 7.0E-01 | 1.7E+05 | 1.6E+05 | 1.3E-03 | 1.2E-03 | 2.0E+00 | 1.1E+00 | | | | 2.8E-01 | 3.9E-03 | 5.4E-02 | 3.2E-04 | 3.0E-01 | |
| 43 | 2.5E+05 | 8.3E+02 | 3.6E+00 | 8.9E+05 | 8.5E+05 | 6.6E-03 | 6.4E-03 | 1.0E+01 | 5.5E+00 | 7.5E-04 | 2.4E-09 | 2.4E-09 | 7.7E-09 | 2.3E-03 | 3.0E-04 | 2.7E-01 | 7.1E-04 | |
| 44 | 1.5E+05 | 6.4E+02 | 2.8E+00 | 6.9E+05 | 6.5E+05 | 5.1E-03 | 4.9E-03 | 8.0E+00 | 4.2E+00 | 4.5E-04 | 1.5E-09 | 1.5E-09 | 4.6E-09 | 1.4E-03 | 1.8E-04 | 1.7E-01 | 4.3E-04 | |
| 45 | 1.0E+05 | 6.5E+02 | 2.8E+00 | 7.0E+05 | 6.6E+05 | 5.2E-03 | 5.0E-03 | 8.0E+00 | 4.3E+00 | 3.0E-04 | 9.7E-10 | 9.7E-10 | 3.1E-09 | 9.2E-04 | 1.2E-04 | 1.1E-01 | 2.8E-04 | |
| 46 | 1.0E+05 | 1.1E+03 | 4.6E+00 | 1.1E+06 | 1.1E+06 | 8.4E-03 | 8.1E-03 | 1.3E+01 | 7.0E+00 | 6.6E-04 | 2.1E-09 | 2.1E-09 | 6.8E-09 | 2.0E-03 | 2.6E-04 | 2.4E-01 | 6.2E-04 | |
| 47 | 2.4E+05 | 1.0E+01 | 4.4E-02 | 1.1E+04 | 1.0E+04 | 8.0E-05 | 7.7E-05 | 1.3E-01 | 6.7E-02 | 2.0E-06 | 4.4E-01 | 4.4E+00 | 1.2E+00 | 1.1E-03 | 8.4E-02 | 1.1E-03 | 3.5E-02 | |
| 48 | 2.6E+05 | 4.2E+01 | 6.7E-01 | 4.7E+04 | 4.4E+04 | 1.7E-02 | 1.7E-02 | 3.4E-01 | 6.6E-02 | 8.8E-06 | 1.5E-03 | 1.2E-01 | 4.9E-01 | 2.0E-04 | 1.9E-03 | 1.8E-03 | 1.7E-02 | |
| 49 | 9.8E+05 | 1.1E+01 | 2.7E-01 | 3.7E+04 | 3.5E+04 | 2.8E-04 | 2.7E-04 | 4.3E-01 | 5.0E-01 | 2.0E-05 | 6.9E-02 | 5.4E-01 | 7.9E-01 | 1.2E-03 | 6.4E-03 | 4.4E-03 | 4.0E-02 | |
| 50 | 2.6E+05 | 4.9E+02 | 9.1E-01 | 2.2E+05 | 2.1E+05 | 1.6E-03 | 1.6E-03 | 2.6E+00 | 1.4E+00 | 1.1E-02 | 2.2E-03 | 6.7E-01 | 2.2E-01 | 3.4E-03 | 2.7E-03 | 1.0E-01 | 1.5E-01 | |
| 51 | 2.0E+07 | 4.9E+04 | 2.1E+02 | 5.2E+07 | 4.9E+07 | 4.0E-01 | 3.9E-01 | 6.0E+02 | 3.2E+02 | 1.0E-01 | 1.0E-01 | 7.0E+00 | 9.0E+00 | 8.7E-02 | 4.0E-01 | 6.3E+00 | 3.4E+00 | |
| Phase Totals | | | | | | | | | | | | | | | | | | |

Table A-4: Free Supernatant Phase Radionuclide Inventory, Continued

| Tank | Free Supernatant Volume, gal | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Na-22 (Ci) | Al-26 (Ci) | Tc-125m (Ci) | Sb-126 (Ci) | Sb-126m (Ci) | Sm-151 (Ci) | Eu-152 (Ci) | Eu-155 (Ci) | |
|--------------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|------------|------------|--------------|-------------|--------------|-------------|-------------|-------------|--|
| 1 | 8.1E+02 | 7.8E-02 | 6.5E-03 | 2.1E-03 | 3.1E-02 | 7.4E-06 | 6.9E-02 | 4.0E-05 | 3.9E-02 | 2.1E-05 | 4.4E-01 | 2.5E-03 | 1.0E-01 | 1.2E-02 | 8.6E-02 | 8.3E-01 | 4.0E-03 | 4.7E-02 | |
| 2 | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | 1.7E-03 | 4.5E-03 | 6.5E-03 | 7.9E-03 | 8.2E-08 | 8.3E-01 | 4.9E-04 | 4.7E-01 | 2.5E-04 | 5.3E+00 | 3.0E-02 | 1.2E+00 | 1.5E-01 | 1.0E+00 | 1.0E+01 | 4.8E-02 | 5.7E-01 | |
| 5 | 2.7E+02 | 7.5E-04 | 1.0E-03 | 2.4E-03 | 3.0E-03 | 1.0E-07 | 3.0E-13 | 2.9E-16 | 2.7E-13 | 1.5E-16 | 3.1E-12 | 1.7E-14 | 7.3E-13 | 8.6E-14 | 6.1E-13 | 5.9E-12 | 2.8E-14 | 3.3E-13 | |
| 6 | 4.1E+02 | 4.0E-01 | 3.3E+00 | 1.1E+00 | 1.6E+01 | 3.8E-03 | 1.4E+00 | 8.0E-04 | 7.6E-01 | 4.1E-04 | 8.7E+00 | 4.9E-02 | 2.0E+00 | 2.4E-01 | 1.7E+00 | 1.6E+01 | 7.9E-02 | 2.0E-13 | |
| 7 | 4.2E+05 | 7.4E-01 | 1.6E+00 | 7.8E-01 | 1.5E+01 | 1.1E-03 | 1.2E+00 | 7.3E-04 | 7.0E-01 | 3.8E-04 | 8.0E+00 | 4.5E-02 | 1.9E+00 | 2.2E-01 | 1.6E+00 | 1.5E+01 | 7.2E-02 | 8.2E-01 | |
| 8 | 1.3E+04 | 1.9E+00 | 5.4E-02 | 2.2E-02 | 2.9E-01 | 1.5E-05 | 4.0E-01 | 2.4E-04 | 2.2E-01 | 1.2E-04 | 2.6E+00 | 1.4E-02 | 6.0E-01 | 7.0E-02 | 5.0E-01 | 4.8E+00 | 2.3E-02 | 2.7E-01 | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | 3.3E+05 | 6.3E+01 | 6.5E-01 | 4.1E-01 | 1.7E+01 | 8.7E-04 | 1.0E-01 | 6.0E-05 | 5.8E-02 | 3.1E-05 | 6.6E-01 | 3.7E-03 | 1.5E-01 | 1.8E-02 | 1.3E-01 | 1.2E+00 | 6.0E-03 | 7.0E-02 | |
| 12 | 1.7E+05 | 3.0E+01 | 5.3E-01 | 2.9E-01 | 5.5E+00 | 4.2E-04 | 4.3E-01 | 2.5E-04 | 2.4E-01 | 1.3E-04 | 2.7E+00 | 1.5E-02 | 6.4E-01 | 7.5E-02 | 5.4E-01 | 5.1E+00 | 2.5E-02 | 2.9E-01 | |
| 13 | 5.2E+05 | 7.5E+01 | 2.1E+00 | 8.8E-01 | 1.2E+01 | 5.9E-04 | 2.7E+01 | 1.6E-02 | 1.5E+01 | 8.3E-03 | 1.7E+02 | 9.8E-01 | 4.1E+01 | 4.8E+00 | 3.4E+01 | 3.3E+02 | 1.6E+00 | 1.9E+01 | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | |
| 19 | 8.7E+02 | 5.1E-02 | 6.8E-02 | 2.4E-02 | 1.2E-01 | 8.1E-04 | 1.6E-06 | 9.5E-10 | 9.1E-07 | 4.9E-10 | 1.0E-05 | 5.8E-08 | 2.4E-06 | 2.8E-07 | 2.0E-06 | 1.9E-05 | 9.4E-08 | 1.1E-06 | |
| 20 | 1.3E+06 | 2.1E+02 | 3.3E+00 | 1.1E+00 | 1.8E+01 | 1.3E-04 | 1.2E+00 | 7.3E-04 | 6.9E-01 | 3.8E-04 | 7.9E+00 | 4.4E-02 | 1.8E+00 | 2.2E-01 | 1.6E+00 | 1.5E+01 | 7.2E-02 | 8.4E-01 | |
| 21 | 1.1E+06 | 2.2E+02 | | | | | 2.8E-02 | 1.7E-05 | 1.6E-02 | 8.6E-06 | 1.8E-01 | 1.0E-03 | 4.2E-02 | 5.0E-03 | 3.3E-02 | 3.4E-01 | 1.6E-03 | 1.9E-02 | |
| 22 | 1.2E+06 | 2.8E+01 | 7.1E+01 | 1.0E+02 | 1.6E+01 | 3.6E-01 | 3.1E+01 | 6.0E-04 | 5.7E-01 | 3.1E-04 | 6.5E+00 | 3.7E-02 | 1.5E+00 | 1.8E-01 | 1.3E+00 | 1.2E+01 | 5.9E-02 | 6.9E-01 | |
| 23 | 1.0E+06 | 6.9E+03 | 2.9E+01 | 2.4E+01 | 4.6E+03 | 2.7E-02 | 4.6E+00 | 1.8E-02 | 1.7E+01 | 9.4E-03 | 2.0E+02 | 1.1E+00 | 4.6E+01 | 5.4E+00 | 3.9E+01 | 3.7E+02 | 1.8E+00 | 2.1E+01 | |
| 24 | 6.8E+05 | 3.9E+03 | 6.1E+02 | 1.4E+02 | 2.4E+03 | 3.7E-02 | 7.9E+00 | 2.7E-03 | 2.6E+00 | 1.4E-03 | 2.9E+01 | 1.6E-01 | 6.8E+00 | 8.1E-01 | 5.8E+00 | 5.5E+01 | 2.7E-01 | 3.1E+00 | |
| 25 | 9.6E+05 | 5.5E+02 | 8.6E+02 | 1.9E+02 | 4.4E+03 | 2.8E-01 | 2.8E-01 | 4.6E-03 | 4.4E+00 | 2.4E-03 | 5.0E+01 | 2.8E-01 | 1.2E+01 | 1.4E+00 | 9.9E+00 | 9.5E+01 | 4.6E-01 | 5.3E+00 | |
| 26 | 8.3E+04 | 4.8E+02 | 7.5E+01 | 1.7E+01 | 2.9E+02 | 3.3E-03 | 1.3E+00 | 7.9E-04 | 7.5E-01 | 4.1E-04 | 8.6E+00 | 4.8E-02 | 2.0E+00 | 2.4E-01 | 1.7E+00 | 1.6E+01 | 7.8E-02 | 9.1E-01 | |
| 27 | 2.0E+05 | 1.1E+03 | 1.8E+02 | 3.9E+01 | 6.9E+02 | 7.8E-03 | 3.5E+00 | 2.0E-03 | 2.0E+00 | 1.1E-03 | 2.2E+01 | 1.2E-01 | 5.2E+00 | 6.1E-01 | 4.4E+00 | 4.2E+01 | 2.0E-01 | 2.4E+00 | |
| 28 | 2.3E+05 | 3.3E+01 | 9.4E-01 | 3.9E-01 | 5.1E+00 | 2.6E-04 | 5.9E-01 | 3.5E-04 | 3.3E-01 | 1.8E-04 | 3.8E+00 | 2.1E-02 | 8.8E-01 | 1.0E-01 | 7.4E-01 | 7.1E+00 | 3.4E-02 | 4.0E-01 | |
| 29 | 9.7E+05 | 6.3E+03 | 5.8E+01 | 4.3E+01 | 2.2E+03 | 9.1E-02 | 2.9E+01 | 1.7E-02 | 1.6E+01 | 8.7E-03 | 1.8E+02 | 1.0E+00 | 4.3E+01 | 5.0E+00 | 3.6E+01 | 3.4E+02 | 1.7E+00 | 1.9E+01 | |
| 30 | 1.2E+05 | 1.7E+01 | 4.8E-01 | 2.0E-01 | 2.6E+00 | 1.3E-04 | 5.5E+00 | 3.2E-03 | 3.1E+00 | 1.7E-03 | 3.5E+01 | 2.0E-01 | 8.2E+00 | 9.7E-01 | 6.9E+00 | 6.6E+01 | 3.2E-01 | 3.7E+00 | |
| 31 | 6.3E+05 | 4.1E+03 | 3.8E+01 | 2.8E+01 | 1.4E+03 | 8.7E-03 | 8.3E+00 | 4.5E-03 | 4.5E+01 | 4.5E-03 | 9.5E+01 | 5.3E-01 | 2.2E+01 | 2.6E+00 | 1.9E+01 | 1.8E+02 | 8.6E-01 | 1.0E+01 | |
| 32 | 6.4E+05 | 1.3E+03 | 7.3E+02 | 1.3E+02 | 2.8E+03 | 9.8E-03 | 7.1E+00 | 4.1E-03 | 4.0E+00 | 2.1E-03 | 4.5E+01 | 2.5E-01 | 1.1E+01 | 1.2E+00 | 8.9E+00 | 8.5E+01 | 4.1E-01 | 4.8E+00 | |
| 33 | 9.0E+05 | 5.5E+01 | 5.5E+01 | 1.2E+01 | 1.9E+02 | 2.6E-03 | 2.1E+01 | 1.2E-02 | 1.2E+01 | 6.4E-03 | 1.4E+02 | 7.6E-01 | 3.2E+01 | 3.7E+00 | 2.7E+01 | 2.5E+02 | 1.2E+00 | 1.4E+01 | |
| 34 | 1.1E+06 | 7.1E+03 | 6.0E+01 | 4.6E+01 | 2.7E+03 | 1.0E-01 | 1.5E+01 | 8.6E-03 | 8.2E+00 | 4.4E-03 | 9.3E+01 | 5.2E-01 | 2.2E+01 | 2.6E+00 | 1.8E+01 | 1.8E+02 | 8.5E-01 | 9.9E+00 | |
| 35 | 2.3E+05 | 3.4E+01 | 9.7E-01 | 4.0E-01 | 5.2E+00 | 2.7E-04 | 1.5E+01 | 8.6E-03 | 8.2E+00 | 4.4E-03 | 9.3E+01 | 5.2E-01 | 2.2E+01 | 2.6E+00 | 1.8E+01 | 1.8E+02 | 8.5E-01 | 9.9E+00 | |
| 36 | 1.2E+05 | 7.5E+02 | 6.9E+00 | 5.1E+00 | 2.6E+02 | 1.1E-02 | 5.0E-01 | 3.0E-04 | 2.8E-01 | 1.5E-04 | 3.2E+00 | 1.8E-02 | 7.5E-01 | 8.9E-02 | 6.3E-01 | 6.1E+00 | 2.9E-02 | 3.4E-01 | |
| 37 | 2.4E+05 | 1.7E+03 | 5.8E+00 | 1.1E+03 | 8.6E-02 | 2.3E-01 | 1.3E-04 | 1.3E-04 | 1.3E-01 | 6.9E-05 | 1.5E+00 | 8.2E-03 | 3.4E-01 | 4.0E-02 | 2.9E-01 | 2.7E+00 | 1.3E-02 | 1.5E-01 | |
| 38 | 8.4E+05 | 4.4E+03 | 5.7E+01 | 3.5E+01 | 3.1E+03 | 7.6E-02 | 1.1E+00 | 6.6E-04 | 6.3E-01 | 3.4E-04 | 7.1E+00 | 4.0E-02 | 1.7E+00 | 2.0E-01 | 1.4E+00 | 1.3E+01 | 6.5E-02 | 7.6E-01 | |
| 39 | 1.0E+05 | 4.9E+02 | 4.1E+01 | 1.5E+01 | 2.4E+02 | 4.6E-02 | 6.7E-02 | 4.0E-05 | 3.8E-02 | 2.0E-05 | 4.3E-01 | 2.4E-03 | 1.0E-01 | 1.2E-02 | 8.5E-02 | 8.1E-01 | 3.9E-03 | 4.6E-02 | |
| 40 | 3.9E+05 | 2.7E+03 | 1.1E+01 | 9.3E+00 | 1.8E+03 | 1.4E-01 | 9.1E-02 | 5.4E-05 | 5.1E-02 | 2.8E-05 | 5.9E-01 | 3.3E-03 | 1.4E-01 | 1.6E-02 | 1.1E-01 | 1.1E+00 | 5.3E-03 | 6.2E-02 | |
| 41 | 1.2E+06 | 6.3E+03 | 3.1E+02 | 1.2E+02 | 1.7E+03 | 2.1E-01 | 1.5E+01 | 8.9E-03 | 8.5E+00 | 4.6E-03 | 9.7E+01 | 5.4E-01 | 2.3E+01 | 2.7E+00 | 1.9E+01 | 1.8E+02 | 8.8E-01 | 1.0E+01 | |
| 42 | 9.7E+05 | 6.5E+03 | 2.7E+01 | 2.3E+01 | 4.4E+03 | 3.4E-01 | 7.3E-01 | 4.3E-04 | 4.1E-01 | 2.2E-04 | 4.7E+00 | 2.6E-02 | 1.1E+00 | 1.3E-01 | 9.2E-01 | 8.8E+00 | 4.2E-02 | 5.0E-01 | |
| 43 | 1.5E+05 | 1.5E+03 | 2.3E+02 | 5.1E+01 | 9.0E+02 | 1.0E-02 | 3.8E+00 | 2.2E-03 | 2.1E+00 | 1.2E-03 | 2.4E+01 | 1.4E-01 | 5.7E+00 | 6.7E-01 | 4.8E+00 | 4.6E+01 | 2.2E-01 | 2.6E+00 | |
| 44 | 2.5E+05 | 8.8E+02 | 1.4E+02 | 3.1E+01 | 5.4E+02 | 6.1E-03 | 2.9E+00 | 1.7E-03 | 1.6E+00 | 8.9E-04 | 1.9E+01 | 1.0E-01 | 3.7E+00 | 5.2E-01 | 3.7E+00 | 3.6E+01 | 1.7E-01 | 2.0E+00 | |
| 45 | 1.0E+05 | 5.9E+02 | 9.2E+01 | 2.1E+01 | 3.6E+02 | 4.1E-03 | 1.7E-03 | 1.7E-03 | 1.7E+00 | 9.0E-04 | 1.9E+01 | 1.1E-01 | 4.4E+00 | 5.2E-01 | 3.7E+00 | 3.5E+01 | 1.7E-01 | 2.0E+00 | |
| 46 | 2.2E+05 | 1.3E+03 | 2.0E+02 | 4.5E+01 | 7.9E+02 | 9.0E-03 | 4.9E+00 | 2.9E-03 | 2.7E+00 | 1.5E-03 | 3.1E+01 | 1.7E-01 | 7.2E+00 | 8.5E-01 | 6.1E+00 | 5.8E+01 | 2.7E-03 | 3.3E+00 | |
| 47 | 2.4E+05 | 2.8E+02 | 1.6E-01 | 6.9E-04 | 4.6E-02 | 4.6E-02 | 2.7E-05 | 2.7E-05 | 2.6E-02 | 1.4E-05 | 3.0E-01 | 1.7E-03 | 6.9E-02 | 8.2E-03 | 5.8E-02 | 5.6E-01 | 2.7E-03 | 3.1E-02 | |
| 48 | 2.6E+05 | 3.0E+01 | 8.3E-01 | 6.3E-01 | 5.4E+01 | 7.8E-02 | 2.1E+00 | 1.8E-04 | 6.1E-01 | 9.4E-05 | 2.0E+00 | 1.1E-02 | 4.6E-01 | 5.4E-02 | 3.9E-01 | 4.3E-01 | 1.8E-02 | 1.7E-02 | |
| 49 | 9.8E+05 | 3.1E+01 | 7.6E+01 | 6.2E+00 | 2.1E-02 | 1.3E+00 | 6.9E-04 | 6.9E-04 | 4.6E+00 | 4.8E-05 | 1.0E+00 | 5.7E-03 | 1.2E+00 | 4.5E-02 | 3.2E-01 | 1.9E+00 | 9.2E-03 | 1.5E-02 | |
| 50 | 2.6E+05 | 9.8E+02 | 3.7E+01 | 1.4E+01 | 3.2E+02 | 5.6E-02 | 9.5E-01 | 5.6E-04 | 5.3E-01 | 2.9E-04 | 6.1E+00 | 3.4E-02 | 1.4E+00 | 1.7E-01 | 1.2E+00 | 1.1E+01 | 5.5E-02 | 6.4E-01 | |
| 51 | 2.0E+07 | 6.6E+04 | 4.0E+03 | 1.2E+03 | 3.6E+04 | 1.8E+00 | 2.3E+02 | 1.3E-01 | 1.3E+02 | 6.8E-02 | 1.4E+03 | 8.0E+00 | 3.3E+02 | 3.9E+01 | 2.8E+02 | 2.7E+03 | 1.3E+01 | 1.5E+02 | |
| Phase Totals | | | | | | | | | | | | | | | | | | | |

Table A-4: Free Supernatant Phase Radionuclide Inventory, Continued

| Tank | Free Supernatant Volume, gal | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Am-243 (Ci) | Cm-242 (Ci) | Cm-243 (Ci) | Cm-247 (Ci) | Cm-248 (Ci) | Bk-249 (Ci) | Cf-249 (Ci) | Cf-251 (Ci) | Cf-252 (Ci) |
|--------------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 8.1E+02 | 5.4E-11 | 7.9E-07 | 1.3E-10 | 2.8E-07 | 6.6E-09 | 3.6E-10 | 3.4E-08 | 1.9E-04 | 3.3E-05 | 7.8E-06 | 1.5E-15 | 1.6E-15 | 1.1E-22 | 8.7E-15 | 3.0E-16 | 9.7E-18 |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | | | | | | | | 2.3E-03 | 4.0E-04 | 9.3E-05 | 1.8E-14 | 1.9E-14 | 1.4E-21 | 1.1E-13 | 3.6E-15 | 1.2E-16 |
| 5 | 2.7E+02 | 1.0E-10 | | 4.9E-12 | 1.3E-08 | 1.4E-11 | 3.8E-10 | | 1.4E-15 | 2.4E-16 | 5.6E-17 | 1.1E-26 | 1.1E-26 | 8.2E-34 | 6.2E-26 | 2.1E-27 | 6.9E-29 |
| 6 | 1.7E+02 | 2.1E-11 | | 1.1E-12 | 2.6E-09 | 3.1E-12 | 4.7E-10 | | 8.3E-16 | 1.4E-16 | 3.4E-17 | 6.5E-27 | 6.8E-27 | 4.9E-34 | 3.8E-26 | 1.3E-27 | 4.2E-29 |
| 7 | 4.1E+05 | 2.8E-08 | 4.1E-04 | 6.7E-08 | 3.4E-06 | 1.8E-07 | 1.7E-05 | | 3.8E-03 | 6.5E-04 | 1.5E-04 | 3.0E-14 | 3.1E-14 | 2.3E-21 | 1.7E-13 | 5.9E-15 | 1.9E-16 |
| 8 | 4.2E+05 | 4.4E-09 | 6.9E-04 | 1.1E-08 | 5.5E-05 | 3.0E-08 | 4.9E-06 | | 3.5E-03 | 6.0E-04 | 1.4E-04 | 2.7E-14 | 2.8E-14 | 2.1E-21 | 1.6E-13 | 5.4E-15 | 1.8E-16 |
| 9 | 1.3E+04 | 4.7E-10 | 7.3E-06 | 1.3E-09 | 4.2E-06 | 5.8E-08 | 3.7E-09 | 6.7E-08 | 1.1E-03 | 1.9E-04 | 4.5E-05 | 8.8E-15 | 9.1E-15 | 6.7E-22 | 5.1E-14 | 1.7E-15 | 5.6E-17 |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | 3.3E+05 | 1.7E-09 | 6.3E-06 | 3.2E-09 | 2.6E-06 | 2.0E-07 | 8.8E-09 | 4.0E-06 | 2.9E-04 | 4.9E-05 | 1.2E-05 | 2.2E-15 | 2.3E-15 | 1.7E-22 | 1.3E-14 | 4.4E-16 | 1.4E-17 |
| 12 | 1.7E+05 | 1.8E-09 | 3.1E-04 | 3.5E-09 | 2.5E-05 | 2.2E-07 | 9.7E-09 | 1.9E-06 | 1.2E-03 | 2.1E-04 | 4.8E-05 | 9.3E-15 | 9.7E-15 | 7.1E-22 | 5.4E-14 | 1.8E-15 | 6.0E-17 |
| 13 | 5.2E+05 | 1.9E-08 | 2.9E-04 | 5.2E-08 | 1.7E-04 | 2.3E-06 | 1.5E-07 | 2.7E-06 | 7.7E-02 | 1.3E-02 | 3.1E-03 | 6.0E-13 | 6.2E-13 | 4.6E-20 | 3.5E-12 | 1.2E-13 | 3.8E-15 |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | 8.7E+02 | 2.4E-10 | | 6.4E-10 | 5.8E-06 | 2.9E-08 | 1.8E-09 | 3.7E-06 | 4.5E-09 | 7.8E-10 | 1.8E-10 | 3.5E-20 | 3.7E-20 | 2.7E-27 | 2.0E-19 | 7.0E-21 | 2.3E-22 |
| 20 | 1.3E+06 | 1.0E-07 | 1.3E-06 | 1.6E-07 | 1.2E-04 | 1.2E-05 | 4.5E-07 | 5.7E-07 | 3.5E-03 | 6.0E-04 | 1.4E-04 | 2.7E-14 | 2.8E-14 | 2.1E-21 | 1.6E-13 | 5.4E-15 | 1.7E-16 |
| 21 | 1.1E+06 | 1.3E-07 | | 2.0E-07 | 4.5E-04 | 1.6E-05 | 5.5E-07 | | 7.9E-05 | 1.4E-05 | 3.2E-06 | 6.2E-16 | 6.4E-16 | 4.7E-23 | 3.6E-15 | 1.2E-16 | 4.0E-18 |
| 22 | 1.2E+06 | 6.5E-06 | | 3.0E-07 | 7.9E-04 | 7.9E-04 | 8.4E-07 | | 2.9E-03 | 4.9E-04 | 1.2E-04 | 2.2E-14 | 2.3E-14 | 1.7E-21 | 1.3E-13 | 4.4E-15 | 1.4E-16 |
| 23 | 1.0E+06 | 6.8E-07 | | 9.4E-07 | 8.3E-05 | 8.3E-05 | 2.6E-06 | 1.6E-03 | 8.6E-02 | 1.5E-02 | 3.5E-03 | 6.7E-13 | 7.0E-13 | 5.1E-20 | 3.9E-12 | 1.3E-13 | 4.3E-15 |
| 24 | 6.8E+05 | 4.6E-14 | | 1.4E-06 | 5.7E-12 | 5.7E-12 | 3.9E-06 | | 1.3E-02 | 2.2E-03 | 5.2E-04 | 1.0E-13 | 1.0E-13 | 7.7E-21 | 5.8E-13 | 2.0E-14 | 6.5E-16 |
| 25 | 9.6E+05 | 6.5E-14 | | 2.0E-06 | 2.6E-11 | 8.0E-12 | 5.4E-06 | 1.8E-04 | 2.2E-02 | 3.8E-03 | 8.9E-04 | 1.7E-13 | 1.8E-13 | 1.3E-20 | 1.0E-12 | 3.4E-14 | 1.1E-15 |
| 26 | 8.3E+04 | 5.7E-15 | | 1.7E-07 | 2.2E-12 | 6.9E-13 | 4.7E-07 | 1.5E-05 | 3.7E-03 | 6.4E-04 | 1.5E-04 | 2.9E-14 | 3.1E-14 | 2.2E-21 | 1.7E-13 | 5.8E-15 | 1.9E-16 |
| 27 | 2.0E+05 | 1.3E-14 | | 4.0E-07 | 5.3E-12 | 1.6E-12 | 1.1E-06 | 3.6E-05 | 9.8E-03 | 1.7E-03 | 4.0E-04 | 7.6E-14 | 7.9E-14 | 5.8E-21 | 4.4E-13 | 1.5E-14 | 4.9E-16 |
| 28 | 2.3E+05 | 8.3E-09 | 1.3E-04 | 2.5E-08 | 7.4E-05 | 1.0E-06 | 6.4E-08 | 1.2E-06 | 9.7E-03 | 2.9E-04 | 6.7E-05 | 1.3E-14 | 1.4E-14 | 9.9E-22 | 7.5E-14 | 2.6E-15 | 8.3E-17 |
| 29 | 9.7E+05 | 1.0E-07 | | 1.5E-07 | 3.8E-05 | 5.2E-07 | 3.3E-08 | 6.0E-07 | 8.0E-02 | 1.4E-02 | 3.3E-03 | 6.3E-13 | 6.5E-13 | 4.8E-20 | 3.6E-12 | 1.2E-13 | 4.0E-15 |
| 30 | 1.2E+05 | 4.2E-09 | 6.5E-05 | 9.7E-08 | 8.2E-06 | 2.7E-07 | 2.7E-04 | | 1.5E-02 | 2.7E-03 | 6.3E-04 | 1.2E-13 | 1.3E-13 | 9.2E-21 | 7.0E-13 | 2.4E-14 | 7.7E-16 |
| 31 | 6.3E+05 | 6.7E-08 | | 4.2E-06 | 1.4E-10 | 5.0E-07 | 1.2E-05 | 4.5E-05 | 2.0E-02 | 3.4E-03 | 8.0E-04 | 1.5E-13 | 1.6E-13 | 1.2E-20 | 8.9E-13 | 3.1E-14 | 9.9E-16 |
| 32 | 6.4E+05 | 4.1E-09 | | 1.1E-06 | 1.4E-10 | 5.0E-07 | 1.2E-05 | 4.5E-05 | 5.9E-02 | 1.0E-02 | 2.4E-03 | 4.6E-13 | 4.8E-13 | 3.5E-20 | 2.7E-12 | 9.2E-14 | 3.0E-15 |
| 33 | 9.0E+05 | | | 2.0E-07 | 1.4E-05 | 5.5E-07 | 5.5E-07 | 4.7E-04 | 4.1E-02 | 7.0E-03 | 1.7E-03 | 3.2E-13 | 3.3E-13 | 2.4E-20 | 1.8E-12 | 6.3E-14 | 2.0E-15 |
| 34 | 1.1E+06 | 1.1E-07 | | 2.0E-07 | 7.7E-05 | 1.0E-06 | 6.6E-08 | 1.2E-06 | 4.1E-02 | 7.0E-03 | 1.7E-03 | 3.2E-13 | 3.3E-13 | 2.4E-20 | 1.8E-12 | 6.3E-14 | 2.0E-15 |
| 35 | 2.3E+05 | 8.6E-09 | 1.3E-04 | 1.8E-08 | 1.5E-06 | 1.5E-06 | 4.9E-08 | 4.9E-05 | 1.4E-03 | 2.4E-04 | 5.7E-05 | 1.1E-14 | 1.2E-14 | 8.4E-22 | 6.4E-14 | 2.2E-15 | 7.1E-17 |
| 36 | 1.2E+05 | 1.2E-08 | | 2.3E-07 | 2.0E-05 | 2.0E-05 | 6.3E-07 | 2.1E-04 | 4.4E-03 | 2.4E-04 | 2.6E-05 | 5.0E-15 | 5.2E-15 | 3.8E-22 | 2.9E-14 | 9.9E-16 | 3.2E-17 |
| 37 | 2.4E+05 | 1.6E-07 | | 4.5E-07 | 4.3E-05 | 4.3E-05 | 1.6E-06 | 3.5E-04 | 3.1E-03 | 5.4E-04 | 1.3E-04 | 2.4E-14 | 2.5E-14 | 1.9E-21 | 1.4E-13 | 4.8E-15 | 1.6E-16 |
| 38 | 8.4E+05 | 3.5E-07 | | 5.6E-07 | 2.2E-03 | 3.2E-05 | 1.0E-06 | 6.3E-04 | 2.6E-04 | 4.4E-05 | 1.0E-05 | 2.0E-15 | 2.1E-15 | 1.1E-22 | 8.5E-15 | 2.9E-16 | 9.4E-18 |
| 39 | 1.0E+05 | 2.8E-07 | 4.6E-03 | 4.5E-07 | 2.2E-03 | 3.2E-05 | 1.0E-06 | 6.3E-04 | 2.6E-04 | 4.4E-05 | 1.0E-05 | 2.0E-15 | 2.1E-15 | 1.1E-22 | 8.5E-15 | 2.9E-16 | 9.4E-18 |
| 40 | 3.9E+05 | 2.6E-07 | 8.4E-02 | 3.6E-07 | 1.2E-02 | 7.8E-05 | 2.5E-06 | 1.5E-03 | 2.0E-03 | 3.5E-04 | 1.6E-14 | 1.7E-14 | 1.7E-14 | 1.2E-21 | 9.2E-14 | 3.2E-15 | 1.0E-16 |
| 41 | 1.2E+06 | 2.8E-06 | | 3.0E-06 | 3.4E-04 | 8.3E-06 | 9.8E-04 | 9.8E-04 | 4.3E-02 | 7.3E-03 | 1.7E-03 | 3.3E-13 | 3.5E-13 | 2.5E-20 | 1.9E-12 | 6.6E-14 | 2.1E-15 |
| 42 | 9.7E+05 | 6.4E-07 | | 8.9E-07 | 7.8E-05 | 2.5E-06 | 1.5E-03 | 1.5E-03 | 2.0E-03 | 3.5E-04 | 1.6E-14 | 1.7E-14 | 1.7E-14 | 1.2E-21 | 9.2E-14 | 3.2E-15 | 1.0E-16 |
| 43 | 2.5E+05 | 1.7E-14 | | 5.2E-07 | 6.9E-12 | 2.1E-12 | 1.5E-06 | 4.7E-05 | 1.1E-02 | 1.8E-03 | 4.3E-04 | 8.4E-14 | 8.7E-14 | 6.4E-21 | 4.8E-13 | 1.7E-14 | 5.4E-16 |
| 44 | 1.5E+05 | 1.0E-14 | | 3.1E-07 | 4.1E-12 | 1.3E-12 | 8.7E-07 | 2.8E-05 | 1.1E-02 | 1.8E-03 | 4.3E-04 | 8.4E-14 | 8.7E-14 | 6.4E-21 | 4.8E-13 | 1.7E-14 | 5.4E-16 |
| 45 | 1.0E+05 | 7.0E-15 | | 2.1E-07 | 2.8E-12 | 8.5E-13 | 5.8E-07 | 1.9E-05 | 8.3E-03 | 1.4E-03 | 3.3E-04 | 6.4E-14 | 6.7E-14 | 4.9E-21 | 3.8E-13 | 1.3E-14 | 4.2E-16 |
| 46 | 2.2E+05 | 1.5E-14 | | 4.6E-07 | 6.0E-12 | 1.9E-12 | 1.3E-06 | 4.1E-05 | 1.4E-02 | 2.3E-03 | 5.5E-04 | 1.1E-13 | 1.1E-13 | 8.1E-21 | 6.1E-13 | 2.1E-14 | 6.8E-16 |
| 47 | 2.4E+05 | 4.6E-06 | 2.0E-06 | 2.6E-07 | 1.3E-03 | 5.7E-04 | 7.2E-07 | | 1.3E-04 | 2.2E-05 | 5.3E-06 | 1.0E-15 | 1.1E-15 | 7.7E-23 | 5.9E-15 | 2.0E-16 | 6.5E-18 |
| 48 | 2.6E+05 | 4.7E-01 | 8.8E-06 | 2.4E-07 | 2.1E-05 | 6.6E-07 | 2.4E-04 | 2.4E-04 | 8.6E-04 | 9.3E-04 | 3.5E-06 | 6.7E-15 | 7.0E-15 | 5.1E-22 | 3.9E-14 | 1.3E-15 | 4.3E-17 |
| 49 | 9.8E+05 | 8.1E-02 | 2.0E-05 | 2.8E-07 | 1.5E-03 | 2.2E-04 | 7.7E-07 | 1.0E-03 | 8.6E-04 | 9.3E-04 | 1.8E-05 | 3.5E-15 | 3.6E-15 | 2.7E-22 | 2.0E-14 | 6.9E-16 | 2.2E-17 |
| 50 | 2.6E+05 | 5.1E-07 | 1.1E-02 | 7.8E-07 | 1.9E-03 | 6.2E-05 | 2.2E-06 | 2.6E-04 | 1.8E-04 | 4.6E-04 | 1.1E-04 | 2.1E-14 | 2.2E-14 | 1.6E-21 | 1.2E-13 | 4.1E-15 | 1.3E-16 |
| Phase Totals | 2.0E+07 | 5.5E-01 | 1.0E-01 | 2.0E-05 | 2.0E-02 | 2.4E-03 | 5.6E-05 | 9.0E-03 | 6.5E-01 | 1.1E-01 | 2.5E-02 | 4.9E-12 | 5.1E-12 | 3.7E-19 | 2.8E-11 | 9.7E-13 | 3.1E-14 |

Table A-5: Sludge Interstitial Liquid Phase Radionuclide Inventory

| Tank | Sludge IL Volume, gal | H-3 (Ci) | C-14 (Ci) | Co-60 (Ci) | Ni-59 (Ci) | Ni-63 (Ci) | Se-79 (Ci) | Sr-90 (Ci) | Y-90 (Ci) | Nb-94 (Ci) | Tc-99 (Ci) | Ru-106 (Ci) | Rh-106 (Ci) | Sb-125 (Ci) | Sn-126 (Ci) | I-129 (Ci) |
|--------------|-----------------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-------------|-------------|-------------|-------------|------------|
| 1 | 4.9E+03 | 1.9E+00 | 3.3E-02 | 1.9E-02 | 3.2E-03 | 4.7E-02 | 1.0E-01 | 2.4E+01 | 8.0E-07 | 3.8E+01 | 2.0E-01 | 1.8E-01 | 1.8E-01 | 2.5E+00 | 5.2E-01 | 1.5E-02 |
| 2 | 2.8E+03 | 1.1E+00 | 1.9E-02 | 1.1E-02 | 6.9E-04 | 2.7E-02 | 2.2E-02 | 5.1E+00 | 1.7E-07 | 8.2E+00 | 4.2E-02 | 3.9E-02 | 3.9E-02 | 5.4E-01 | 1.1E-01 | 3.3E-03 |
| 3 | 2.8E+03 | 1.1E+00 | 1.9E-02 | 1.1E-02 | 7.0E-04 | 2.7E-02 | 2.2E-02 | 5.2E+00 | 1.7E-07 | 8.3E+00 | 4.3E-02 | 4.0E-02 | 4.0E-02 | 5.5E-01 | 1.1E-01 | 3.3E-03 |
| 4 | 5.6E+03 | 1.9E+00 | 3.7E-02 | 2.2E-02 | 1.3E-04 | 5.3E-02 | 4.1E-03 | 9.6E-01 | 3.2E-08 | 1.5E+00 | 7.9E-03 | 7.3E-03 | 7.3E-03 | 1.0E-01 | 2.1E-02 | 6.1E-04 |
| 5 | 1.3E+03 | 1.7E-04 | 8.9E-03 | 5.2E-03 | 1.9E-14 | 1.3E-02 | 6.0E-13 | 1.4E-10 | 4.7E-18 | 2.2E-10 | 1.2E-12 | 1.1E-12 | 1.1E-12 | 1.5E-11 | 3.1E-12 | 8.9E-14 |
| 6 | 6.6E+02 | 1.1E+01 | 1.2E-01 | 6.8E-02 | 4.4E-04 | 1.3E-02 | 6.1E-13 | 1.4E-10 | 4.8E-18 | 2.3E-10 | 1.2E-12 | 1.1E-12 | 1.1E-12 | 1.5E-11 | 3.1E-12 | 9.1E-14 |
| 7 | 1.8E+04 | 4.5E+00 | 8.2E-02 | 4.8E-02 | 2.8E-04 | 1.2E-01 | 9.0E-03 | 2.1E+00 | 7.0E-08 | 3.3E+00 | 2.7E-02 | 2.5E-02 | 2.5E-02 | 3.5E-01 | 7.2E-02 | 2.1E-03 |
| 8 | 1.2E+04 | 7.2E-01 | 1.3E-02 | 7.4E-03 | 4.5E-04 | 1.8E-02 | 1.4E-02 | 3.4E+00 | 1.1E-07 | 5.4E+00 | 2.8E-02 | 2.6E-02 | 2.6E-02 | 3.6E-01 | 7.3E-02 | 2.1E-03 |
| 9 | 1.9E+03 | 7.2E-01 | 1.3E-02 | 7.4E-03 | 7.9E-05 | 1.8E-02 | 2.5E-03 | 5.9E-01 | 2.0E-08 | 9.4E-01 | 4.8E-03 | 4.5E-03 | 4.5E-03 | 6.2E-02 | 1.3E-02 | 3.7E-04 |
| 10 | 1.9E+03 | 2.5E+00 | 4.4E-02 | 2.6E-02 | 1.6E-05 | 6.3E-02 | 5.1E-04 | 1.2E-01 | 3.9E-09 | 1.9E-01 | 9.8E-04 | 9.1E-04 | 9.1E-04 | 1.3E-02 | 2.6E-03 | 7.6E-05 |
| 11 | 6.7E+03 | 3.6E+00 | 6.4E-02 | 3.7E-02 | 1.9E-04 | 9.1E-02 | 6.0E-03 | 1.4E+00 | 4.7E-08 | 2.2E+00 | 1.2E-02 | 1.1E-02 | 1.1E-02 | 1.5E-01 | 3.1E-02 | 8.9E-04 |
| 12 | 9.6E+03 | 7.8E+01 | 1.3E+00 | 7.6E-01 | 7.9E-02 | 1.8E+00 | 2.5E+00 | 5.9E+02 | 2.0E-05 | 9.4E+02 | 4.9E+00 | 4.5E+00 | 4.5E+00 | 6.2E+01 | 1.3E+01 | 3.8E-01 |
| 13 | 1.9E+05 | 7.4E+00 | 1.3E-01 | 7.6E-02 | 1.1E-02 | 1.9E-01 | 3.5E-01 | 8.1E+01 | 2.7E-06 | 1.3E+02 | 6.6E-01 | 6.2E-01 | 6.2E-01 | 8.5E+00 | 1.8E+00 | 5.1E-02 |
| 14 | 2.0E+04 | 1.1E+00 | 1.9E-02 | 1.1E-02 | 2.7E-09 | 2.7E-02 | 8.5E-08 | 2.0E-05 | 6.6E-13 | 3.2E-05 | 1.6E-07 | 1.5E-07 | 1.5E-07 | 2.1E-06 | 4.3E-07 | 1.3E-08 |
| 15 | 2.8E+03 | 1.1E+00 | 1.9E-02 | 1.1E-02 | 2.7E-09 | 2.7E-02 | 8.5E-08 | 2.0E-05 | 6.6E-13 | 3.2E-05 | 1.6E-07 | 1.5E-07 | 1.5E-07 | 2.1E-06 | 4.3E-07 | 1.3E-08 |
| 16 | 1.4E+03 | 5.2E-01 | 9.1E-03 | 5.3E-03 | 2.0E-08 | 1.3E-02 | 6.3E-07 | 1.5E-04 | 4.9E-12 | 2.3E-04 | 1.2E-06 | 1.1E-06 | 1.1E-06 | 1.5E-05 | 3.2E-06 | 9.3E-08 |
| 18 | 3.7E+04 | 3.2E-01 | 2.5E-01 | 1.5E-01 | 2.9E-04 | 3.5E-01 | 9.2E-03 | 2.1E+00 | 7.1E-08 | 3.4E+00 | 1.7E-02 | 1.6E-02 | 1.6E-02 | 2.2E-01 | 4.6E-02 | 1.4E-03 |
| 21 | 5.0E+04 | 4.3E-01 | 3.3E-01 | 2.0E-01 | 9.7E-06 | 4.7E-02 | 3.1E-04 | 7.2E-02 | 2.4E-09 | 1.1E-01 | 5.9E-04 | 5.5E-04 | 5.5E-04 | 7.6E-03 | 1.6E-03 | 4.6E-05 |
| 22 | 8.8E+04 | 7.5E-01 | 5.9E-01 | 3.4E-01 | 6.0E-04 | 8.3E-01 | 1.9E-02 | 1.0E+00 | 1.5E-07 | 2.2E+00 | 3.7E-02 | 3.4E-02 | 3.4E-02 | 4.7E-01 | 9.7E-02 | 2.8E-03 |
| 23 | 2.5E+03 | 9.4E-01 | 1.7E-02 | 9.7E-03 | 5.8E-04 | 2.3E-02 | 1.9E-02 | 4.3E+00 | 1.4E-07 | 6.9E+00 | 3.5E-02 | 3.3E-02 | 3.3E-02 | 4.6E-01 | 9.4E-02 | 2.7E-03 |
| 24 | 2.0E+05 | 2.9E+01 | 1.4E+00 | 7.9E-01 | 1.3E-02 | 1.9E+00 | 4.2E-01 | 9.6E+01 | 3.2E-06 | 1.5E+02 | 7.9E-01 | 7.4E-01 | 7.4E-01 | 1.0E+01 | 2.1E+00 | 6.2E-02 |
| 25 | 2.7E+03 | 3.8E-01 | 1.8E-02 | 1.1E-02 | 3.4E-04 | 2.6E-02 | 1.1E-02 | 2.5E+00 | 8.4E-08 | 4.0E+00 | 2.1E-02 | 1.9E-02 | 1.9E-02 | 2.7E-01 | 5.5E-02 | 1.6E-03 |
| 26 | 4.3E+02 | 1.5E-02 | 2.9E-03 | 1.7E-03 | 9.9E-05 | 4.1E-03 | 3.2E-03 | 7.4E-01 | 2.5E-08 | 1.2E+00 | 6.1E-03 | 5.6E-03 | 5.6E-03 | 7.8E-02 | 1.6E-02 | 4.7E-04 |
| 27 | 7.3E+04 | 3.0E+00 | 4.8E-01 | 2.8E-01 | 1.3E-02 | 6.9E-01 | 4.2E-01 | 9.8E+01 | 3.3E-06 | 1.6E+02 | 8.1E-01 | 7.5E-01 | 7.5E-01 | 1.0E+01 | 2.1E+00 | 6.2E-02 |
| 28 | 5.2E+04 | 4.1E+00 | 3.4E-01 | 2.0E-01 | 4.4E-03 | 4.9E-01 | 1.4E-01 | 3.3E+01 | 1.1E-06 | 5.2E+01 | 2.7E-01 | 2.5E-01 | 2.5E-01 | 3.5E+00 | 7.1E-01 | 2.1E-02 |
| 29 | 8.8E+03 | 7.5E-01 | 5.9E-02 | 3.4E-02 | 1.6E-03 | 8.4E-02 | 5.2E-02 | 1.2E+01 | 4.0E-07 | 1.9E+01 | 9.8E-02 | 9.2E-02 | 9.2E-02 | 1.3E+00 | 2.6E-01 | 7.6E-03 |
| 30 | 6.2E+04 | 2.4E+01 | 4.2E-01 | 2.4E-01 | 6.5E-03 | 5.9E-01 | 2.1E-01 | 4.8E+01 | 1.6E-06 | 7.7E+01 | 4.0E-01 | 3.7E-01 | 3.7E-01 | 5.1E+00 | 1.1E+00 | 3.1E-02 |
| 31 | 1.3E+02 | 4.9E-02 | 8.7E-04 | 5.1E-04 | 6.2E-05 | 1.2E-03 | 2.0E-03 | 4.6E-01 | 1.5E-08 | 7.4E-01 | 3.8E-03 | 3.6E-03 | 3.6E-03 | 4.9E-02 | 1.0E-02 | 3.0E-04 |
| 32 | 9.3E+04 | 8.1E+00 | 6.2E-01 | 3.6E-01 | 9.6E-04 | 8.8E-01 | 3.1E-02 | 7.1E+00 | 2.4E-07 | 1.1E+01 | 5.9E-02 | 5.5E-02 | 5.5E-02 | 7.5E-01 | 1.6E-01 | 4.5E-03 |
| 33 | 4.4E+05 | 1.8E+00 | 2.9E+00 | 1.7E+00 | 2.2E-03 | 4.1E+00 | 7.0E-02 | 1.6E+01 | 5.4E-07 | 2.6E+01 | 1.3E-01 | 1.3E-01 | 1.3E-01 | 1.7E+00 | 3.6E-01 | 1.0E-02 |
| 34 | 1.9E+03 | 7.1E-01 | 1.2E-02 | 7.3E-03 | 3.4E-06 | 1.8E-02 | 1.1E-04 | 2.5E-02 | 8.4E-10 | 4.0E-02 | 2.1E-04 | 1.9E-04 | 1.9E-04 | 2.7E-03 | 5.5E-04 | 1.6E-05 |
| 35 | 1.4E+04 | 5.3E+00 | 9.4E-02 | 5.5E-02 | 1.4E-03 | 1.3E-01 | 4.5E-02 | 1.1E+01 | 3.5E-07 | 1.7E+01 | 8.7E-02 | 8.1E-02 | 8.1E-02 | 1.1E+00 | 2.3E-01 | 6.7E-03 |
| 36 | 1.7E+05 | 2.9E-01 | 1.1E+00 | 6.6E-01 | 9.9E-04 | 1.6E+00 | 3.2E-02 | 7.4E+00 | 2.5E-07 | 1.2E+01 | 6.1E-02 | 5.7E-02 | 5.7E-02 | 7.8E-01 | 1.6E-01 | 4.7E-03 |
| 37 | | | | | | | | | | | | | | | | |
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| 51 | | | | | | | | | | | | | | | | |
| Phase Totals | | | | | | | | | | | | | | | | |
| | 1.4E+05 | 5.7E-01 | 9.6E-01 | 5.6E-01 | 4.1E-03 | 1.4E+00 | 1.3E-01 | 3.1E+01 | 1.0E-06 | 4.9E+01 | 2.5E-01 | 2.3E-01 | 2.3E-01 | 3.2E+00 | 6.7E-01 | 1.9E-02 |
| | 1.9E+06 | 2.1E+02 | 1.3E+01 | 7.4E+00 | 1.8E-01 | 1.8E+01 | 5.6E+00 | 1.3E+03 | 4.4E-05 | 2.1E+03 | 1.1E+01 | 1.0E+01 | 1.0E+01 | 1.4E+02 | 2.9E+01 | 8.3E-01 |

Table A-5: Sludge Interstitial Liquid Phase Inventory, Continued

| Tank | Sludge IL Volume, gal. | Cs-134 (Ci) | Cs-135 (Ci) | Cs-137 (Ci) | Ba-137m (Ci) | Ce-144 (Ci) | Pr-144 (Ci) | Pm-147 (Ci) | Eu-154 (Ci) | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | |
|--------------|------------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|--|
| 1 | 4.9E+03 | 9.1E+01 | 4.0E-01 | 9.8E+04 | 9.3E+04 | 7.2E-04 | 7.0E-04 | 1.1E+00 | 6.0E-01 | 4.8E-06 | 1.6E-06 | 5.9E-04 | 1.5E-04 | 3.5E-06 | 1.4E-06 | 9.8E-05 | 1.2E-04 | |
| 2 | 2.8E+03 | 1.9E+01 | 8.5E-02 | 2.1E+04 | 2.0E+04 | 1.5E-04 | 1.5E-04 | 2.4E-01 | 1.3E-01 | 2.8E-06 | 9.2E-07 | 3.4E-04 | 8.4E-05 | 2.0E-06 | 8.1E-07 | 5.7E-05 | 6.8E-05 | |
| 3 | 2.8E+03 | 2.0E+01 | 8.6E-02 | 2.1E+04 | 2.0E+04 | 1.6E-04 | 1.5E-04 | 2.4E-01 | 1.3E-01 | 2.8E-06 | 9.2E-07 | 3.4E-04 | 8.4E-05 | 2.0E-06 | 8.1E-07 | 5.7E-05 | 6.8E-05 | |
| 4 | 5.6E+03 | 3.6E+00 | 1.6E-02 | 3.9E+03 | 3.7E+03 | 2.9E-05 | 2.8E-05 | 4.5E-02 | 2.4E-02 | | | | | | | | | |
| 5 | 1.3E+03 | 5.3E-10 | 2.3E-12 | 5.7E-07 | 5.4E-07 | 4.2E-15 | 4.1E-15 | 6.6E-12 | 3.5E-12 | | 6.1E-07 | | 2.3E-04 | 1.1E-07 | | 1.8E-06 | 4.3E-05 | |
| 6 | 1.4E+04 | 5.4E-10 | 2.4E-12 | 5.8E-07 | 5.5E-07 | 4.3E-15 | 4.1E-15 | 6.7E-12 | 3.6E-12 | | 3.7E-07 | | 7.8E-05 | 4.0E-08 | | 1.1E-06 | 1.5E-05 | |
| 7 | 1.8E+04 | 1.3E+01 | 5.3E-02 | 1.3E+04 | 1.3E+04 | 1.0E-04 | 9.6E-05 | 1.6E-01 | 8.3E-02 | 1.7E-05 | 5.7E-06 | 2.1E-03 | 5.2E-04 | 1.2E-05 | 5.0E-06 | 3.5E-04 | 4.2E-04 | |
| 8 | 1.2E+04 | 7.9E+00 | 3.5E-02 | 8.5E+03 | 8.0E+03 | 6.3E-05 | 6.1E-05 | 9.8E-02 | 5.2E-02 | 2.0E-05 | 3.3E-07 | 5.7E-04 | 5.6E-05 | 1.4E-06 | 4.6E-06 | 2.1E-05 | 1.3E-04 | |
| 9 | 1.9E+03 | 1.3E+01 | 5.6E-02 | 1.4E+04 | 1.3E+04 | 1.0E-04 | 9.8E-05 | 1.6E-01 | 8.4E-02 | 1.1E-06 | 2.7E-07 | 2.2E-04 | 3.1E-05 | 8.4E-07 | 3.2E-06 | 9.8E-06 | 7.9E-05 | |
| 10 | 1.9E+03 | 2.2E+00 | 9.7E-03 | 4.8E+03 | 2.3E+03 | 1.8E-05 | 1.7E-05 | 2.8E-02 | 1.5E-02 | 1.1E-06 | 2.7E-07 | 2.2E-04 | 3.1E-05 | 8.4E-07 | 3.2E-06 | 9.8E-06 | 7.9E-05 | |
| 11 | 6.7E+03 | 4.5E-01 | 2.0E-03 | 4.8E+02 | 4.6E+02 | 3.6E-06 | 3.4E-06 | 5.6E-03 | 3.0E-03 | 1.3E-07 | 1.8E-05 | 1.8E-05 | 1.5E-05 | 2.8E-07 | 2.3E-06 | 5.2E-07 | 9.7E-06 | |
| 12 | 9.6E+03 | 5.3E+00 | 2.3E-02 | 5.7E+03 | 5.4E+03 | 4.2E-05 | 4.1E-05 | 6.6E-02 | 3.5E-02 | 1.8E-05 | 1.7E-07 | 5.0E-04 | 4.6E-05 | 8.7E-07 | 3.7E-06 | 8.8E-06 | 1.0E-04 | |
| 13 | 1.9E+05 | 2.2E+03 | 9.8E+00 | 2.4E+06 | 2.3E+06 | 1.8E-02 | 1.7E-02 | 2.8E+01 | 1.5E+01 | 1.1E-04 | 2.7E-05 | 2.2E-02 | 3.1E-03 | 8.6E-05 | 3.2E-04 | 1.0E-03 | 8.1E-03 | |
| 14 | 2.0E+04 | 3.1E+02 | 1.3E+00 | 3.3E+05 | 3.1E+05 | 2.4E-03 | 2.3E-03 | 3.8E+00 | 2.0E+00 | 4.6E-05 | 1.3E-05 | 1.6E-03 | 2.2E-04 | 1.8E-05 | 1.9E-05 | 3.4E-04 | 2.4E-03 | |
| 15 | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 7.5E-05 | 3.3E-07 | 8.0E-02 | 7.6E-02 | 5.9E-10 | 5.7E-10 | 9.3E-07 | 4.9E-07 | 5.7E-08 | 1.4E-03 | 1.4E-03 | 9.5E-04 | 1.3E-05 | 1.3E-05 | 3.2E-04 | 1.5E-04 | |
| 19 | 1.4E+03 | 5.5E-04 | 2.4E-06 | 5.9E-01 | 5.6E-01 | 4.4E-09 | 4.2E-09 | 6.9E-06 | 3.7E-06 | 7.4E-07 | 3.2E-03 | 3.2E-03 | 1.7E-04 | 4.4E-06 | 1.0E-05 | 1.5E-04 | 3.7E-05 | |
| 21 | 3.7E+04 | 8.0E+00 | 3.5E-02 | 8.6E+03 | 8.2E+03 | 6.4E-05 | 6.2E-05 | 1.0E-01 | 5.3E-02 | 4.0E-08 | | | 1.3E-03 | 2.1E-05 | 2.4E-04 | 1.3E-04 | 1.1E-03 | |
| 22 | 5.0E+04 | 2.7E-01 | 1.2E-03 | 2.8E+02 | 2.8E+02 | 2.2E-06 | 2.1E-06 | 3.4E-03 | 1.8E-03 | | | 7.0E-03 | 2.5E-03 | 3.9E-05 | 4.1E-04 | 8.6E-04 | 1.5E-03 | |
| 23 | 8.8E+04 | 1.7E+01 | 7.4E-02 | 1.8E+04 | 1.7E+04 | 1.3E-04 | 1.3E-04 | 2.1E-01 | 1.1E-01 | | | 2.2E-01 | 2.2E-01 | 1.0E-04 | 2.2E-03 | 6.5E-04 | 2.4E-02 | |
| 24 | 2.3E+03 | 1.6E+01 | 7.1E-02 | 1.8E+04 | 1.7E+04 | 1.3E-04 | 1.2E-04 | 2.0E-01 | 1.1E-01 | | | 7.3E-04 | 7.3E-04 | 1.0E-05 | 1.4E-04 | 8.1E-07 | 7.7E-04 | |
| 25 | | | | | | | | | | | | | | | | | | |
| 26 | 2.0E+05 | 3.7E+02 | 1.6E+00 | 3.9E+05 | 3.7E+05 | 2.9E-03 | 2.8E-03 | 4.5E+00 | 2.4E+00 | 6.0E-04 | 1.9E-09 | 1.9E-09 | 6.2E-09 | 1.8E-03 | 2.4E-04 | 2.2E-01 | 5.7E-04 | |
| 27 | 2.7E+03 | 9.5E+00 | 4.2E-02 | 1.0E+04 | 9.7E+03 | 7.6E-05 | 7.3E-05 | 1.2E-01 | 6.3E-02 | 8.0E-06 | 2.6E-11 | 2.6E-11 | 8.2E-11 | 2.4E-05 | 3.1E-06 | 2.9E-03 | 7.5E-06 | |
| 28 | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | |
| 30 | 4.3E+02 | 2.8E+00 | 1.2E-02 | 3.0E+03 | 2.8E+03 | 2.2E-05 | 2.1E-05 | 3.5E-02 | 1.8E-02 | | | | 2.0E-05 | 2.9E-07 | 4.6E-06 | 1.4E-07 | 8.4E-06 | |
| 31 | | | | | | | | | | | | | | | | | | |
| 32 | 7.3E+04 | 3.7E+02 | 1.6E+00 | 4.0E+05 | 3.8E+05 | 2.9E-03 | 2.8E-03 | 4.6E+00 | 2.4E+00 | | | | 3.4E-03 | 4.9E-05 | 7.7E-04 | 2.3E-05 | 1.4E-03 | |
| 33 | 5.2E+04 | 1.2E+02 | 5.4E-01 | 1.3E+05 | 1.3E+05 | 9.9E-04 | 9.5E-04 | 1.5E+00 | 8.2E-01 | | | | 1.5E-04 | 1.5E-03 | 8.1E-04 | 2.1E-01 | 6.7E-02 | |
| 34 | 8.8E+03 | 4.5E+01 | 2.0E-01 | 4.9E+04 | 4.6E+04 | 3.6E-04 | 3.5E-04 | 5.6E-01 | 3.0E-01 | | 8.2E-04 | 3.8E-09 | | 4.7E-05 | | 3.3E-03 | 2.6E-03 | |
| 35 | 6.2E+04 | 1.8E+02 | 8.0E-01 | 2.0E+05 | 1.9E+05 | 1.5E-03 | 1.4E-03 | 2.3E+00 | 1.2E+00 | | 4.4E-05 | | 2.9E-03 | 5.0E-05 | 8.5E-04 | 2.9E-05 | 1.0E-03 | |
| 36 | 1.3E+02 | 1.8E+00 | 7.7E-03 | 1.9E+03 | 1.8E+03 | 1.4E-05 | 1.3E-05 | 2.2E-02 | 1.2E-02 | 7.3E-08 | 1.8E-08 | 1.5E-05 | 2.1E-06 | 5.7E-08 | 2.2E-07 | 6.7E-07 | 5.4E-06 | |
| 37 | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | |
| 39 | 9.3E+04 | 2.7E+01 | 1.2E-01 | 2.9E+04 | 2.7E+04 | 2.1E-04 | 2.1E-04 | 3.3E-01 | 1.8E-01 | | | | 1.7E-02 | 2.7E-04 | 3.0E-03 | 3.2E-05 | 1.1E-02 | |
| 40 | 4.4E+05 | 6.2E+01 | 2.7E-01 | 6.6E+04 | 6.3E+04 | 4.9E-04 | 4.7E-04 | 7.7E-01 | 4.1E-01 | 1.9E-02 | 2.6E-03 | 3.2E+00 | 7.0E-01 | 8.4E-03 | 6.2E-03 | 1.9E-01 | 4.4E-01 | |
| 41 | 1.9E+03 | 9.5E-02 | 4.2E-04 | 1.0E+02 | 9.7E+01 | 7.6E-07 | 7.3E-07 | 1.2E-03 | 6.3E-04 | | | | 5.5E-04 | 7.6E-06 | 1.0E-04 | 6.1E-07 | 5.8E-04 | |
| 42 | 1.4E+04 | 4.0E+01 | 1.7E-01 | 4.3E+04 | 4.0E+04 | 3.2E-04 | 3.0E-04 | 4.9E-01 | 2.6E-01 | 1.0E-03 | 3.7E-05 | 4.9E-02 | 1.5E-02 | 1.6E-04 | 4.1E-04 | 3.1E-03 | 5.8E-03 | |
| 43 | 1.7E+05 | 2.8E+01 | 1.2E-01 | 3.0E+04 | 2.8E+04 | 2.2E-04 | 2.1E-04 | 3.5E-01 | 1.8E-01 | | | | 5.0E-02 | 6.8E-04 | 9.4E-03 | 5.6E-05 | 5.3E-02 | |
| 44 | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | |
| 47 | 1.7E+05 | 8.3E+02 | 3.6E+00 | 8.9E+05 | 8.4E+05 | 6.6E-03 | 6.3E-03 | 1.0E+01 | 5.4E+00 | | | | 5.3E-09 | 1.6E-03 | 2.0E-04 | 1.9E-01 | 4.8E-04 | |
| 48 | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | |
| 51 | 1.4E+05 | 1.2E+02 | 5.1E-01 | 1.2E+05 | 1.2E+05 | 9.2E-04 | 8.9E-04 | 1.4E+00 | 7.6E-01 | 6.0E-03 | 1.2E-03 | 3.7E-01 | 1.3E-01 | 1.9E-03 | 1.5E-03 | 5.7E-02 | 8.4E-02 | |
| Phase Totals | 1.9E+06 | 5.0E+03 | 2.2E+01 | 5.3E+06 | 5.0E+06 | 3.9E-02 | 3.8E-02 | 6.1E+01 | 3.3E+01 | 2.6E-02 | 5.9E-03 | 3.7E+00 | 1.1E+00 | 1.7E-02 | 2.7E-02 | 8.9E-01 | 7.0E-01 | |

Table A-5: Sludge Interstitial Liquid Phase Inventory, Continued

| Tank | Sludge IL Volume, gal | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Na-22 (Ci) | Al-26 (Ci) | Te-123m (Ci) | Sb-126 (Ci) | Sb-126m (Ci) | Sm-151 (Ci) | Eu-152 (Ci) | Eu-155 (Ci) | |
|--------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|------------|------------|--------------|-------------|--------------|-------------|-------------|-------------|--|
| 1 | 4.9E+03 | 4.7E-01 | 3.9E-02 | 1.3E-02 | 1.9E-01 | 4.5E-05 | 4.2E-01 | 2.5E-04 | 2.3E-01 | 1.3E-04 | 2.7E+00 | 1.5E-02 | 6.2E-01 | 7.3E-02 | 5.2E-01 | 5.0E+00 | 2.4E-02 | 2.8E-01 | |
| 2 | 2.8E+03 | 2.7E-01 | 2.3E-02 | 7.2E-03 | 1.1E-01 | 2.6E-05 | 8.9E-02 | 5.2E-05 | 5.0E-02 | 2.7E-05 | 5.7E-01 | 3.2E-03 | 1.3E-01 | 1.6E-02 | 1.1E-01 | 1.1E+00 | 5.2E-03 | 6.1E-02 | |
| 3 | 2.8E+03 | 2.7E-01 | 2.3E-02 | 7.2E-03 | 1.1E-01 | 2.6E-05 | 9.1E-02 | 5.3E-05 | 5.1E-02 | 2.8E-05 | 5.8E-01 | 3.2E-03 | 1.3E-01 | 1.6E-02 | 1.1E-01 | 1.1E+00 | 5.3E-03 | 6.1E-02 | |
| 4 | 5.6E+03 | 5.4E-01 | 4.6E-02 | 1.4E-02 | 1.7E-02 | 1.7E-02 | 1.7E-02 | 9.8E-06 | 9.3E-03 | 5.1E-06 | 1.1E-01 | 5.9E-04 | 2.5E-02 | 2.9E-03 | 2.1E-02 | 2.0E-01 | 9.6E-04 | 1.1E-02 | |
| 5 | 1.3E+03 | 8.3E-03 | 2.2E-02 | 1.4E-02 | 3.9E-02 | 4.1E-07 | 2.4E-12 | 1.4E-15 | 1.4E-12 | 7.4E-12 | 1.6E-11 | 8.7E-14 | 3.6E-12 | 4.3E-13 | 3.1E-12 | 2.9E-11 | 1.4E-13 | 1.6E-12 | |
| 6 | 1.4E+04 | 6.3E-03 | 8.7E-03 | 1.4E-01 | 4.5E-02 | 8.6E-07 | 2.5E-12 | 1.5E-15 | 1.4E-12 | 7.5E-16 | 1.6E-11 | 8.8E-14 | 3.7E-12 | 4.3E-13 | 3.1E-12 | 3.0E-11 | 1.4E-13 | 1.7E-12 | |
| 7 | 1.8E+04 | 1.7E+00 | 1.4E-01 | 4.5E-02 | 2.0E-02 | 1.6E-04 | 5.7E-02 | 3.4E-05 | 3.2E-02 | 1.7E-05 | 3.7E-01 | 2.1E-03 | 8.6E-02 | 1.0E-02 | 7.2E-02 | 6.9E-01 | 3.3E-03 | 3.9E-02 | |
| 8 | 1.2E+04 | 2.2E+00 | 4.6E-02 | 2.3E-02 | 4.4E-01 | 3.1E-05 | 3.6E-02 | 2.1E-05 | 2.0E-02 | 1.1E-05 | 2.3E-01 | 1.3E-03 | 5.4E-02 | 6.4E-03 | 4.6E-02 | 4.3E-01 | 2.1E-03 | 2.5E-02 | |
| 9 | 1.9E+03 | 2.8E-01 | 7.8E-03 | 3.2E-03 | 4.2E-02 | 2.1E-06 | 5.8E-02 | 3.4E-05 | 3.3E-02 | 1.8E-05 | 3.7E-01 | 2.1E-03 | 8.7E-02 | 7.0E-02 | 7.3E-02 | 7.0E-01 | 3.4E-03 | 4.0E-02 | |
| 10 | 1.9E+03 | 2.8E-01 | 7.8E-03 | 3.2E-03 | 4.2E-02 | 2.1E-06 | 1.0E-02 | 6.0E-06 | 5.7E-03 | 3.1E-06 | 6.5E-02 | 3.6E-04 | 1.5E-02 | 1.8E-03 | 1.3E-02 | 1.2E-01 | 5.9E-04 | 6.9E-03 | |
| 11 | 6.7E+03 | 1.3E+00 | 1.3E-02 | 8.2E-03 | 3.5E-01 | 1.8E-05 | 2.1E-03 | 1.2E-06 | 1.2E-03 | 6.2E-07 | 1.3E-02 | 7.3E-05 | 3.1E-03 | 3.6E-04 | 2.6E-03 | 2.5E-02 | 1.2E-04 | 1.4E-03 | |
| 12 | 9.6E+03 | 1.7E+00 | 3.0E-02 | 1.7E-02 | 3.1E-01 | 2.4E-05 | 2.4E-02 | 1.4E-05 | 1.4E-02 | 7.4E-06 | 1.6E-01 | 8.7E-04 | 3.6E-02 | 4.3E-03 | 3.1E-02 | 2.9E-01 | 1.4E-03 | 1.6E-02 | |
| 13 | 1.9E+05 | 2.8E+01 | 8.0E-01 | 3.3E-01 | 4.3E+00 | 2.2E-04 | 1.0E+01 | 6.0E-03 | 5.7E+00 | 3.1E-03 | 6.5E+01 | 3.7E-01 | 1.5E+01 | 1.8E+00 | 1.3E+01 | 1.2E+02 | 5.9E-01 | 6.9E+00 | |
| 14 | 2.0E+04 | 1.0E+00 | 2.6E-01 | 8.5E-02 | 3.2E-01 | 1.6E-05 | 1.4E+00 | 8.2E-04 | 7.8E-01 | 4.2E-04 | 8.9E+00 | 5.0E-02 | 2.1E+00 | 2.5E-01 | 1.8E+00 | 1.7E+01 | 8.1E-02 | 9.5E-01 | |
| 16 | 2.8E+03 | 1.2E-01 | 2.3E-01 | 5.2E-02 | 4.7E-01 | 5.5E-04 | 3.4E-07 | 2.0E-10 | 1.9E-07 | 1.0E-10 | 2.2E-06 | 1.2E-08 | 5.1E-07 | 6.0E-08 | 4.3E-07 | 4.1E-06 | 2.0E-08 | 2.3E-07 | |
| 18 | 1.4E+03 | 8.0E-02 | 1.1E-01 | 3.7E-02 | 1.9E-01 | 1.3E-03 | 2.5E-06 | 1.5E-09 | 1.4E-06 | 7.7E-10 | 1.6E-05 | 9.1E-08 | 3.8E-06 | 4.5E-07 | 3.2E-06 | 3.0E-05 | 1.5E-07 | 1.7E-06 | |
| 19 | 3.7E+04 | 6.3E+00 | 9.8E-02 | 3.3E-02 | 5.5E-01 | 3.7E-06 | 3.7E-02 | 2.2E-05 | 2.1E-02 | 1.1E-05 | 2.4E-01 | 1.3E-03 | 5.5E-02 | 6.5E-03 | 4.2E-02 | 4.4E-01 | 2.1E-03 | 2.5E-02 | |
| 21 | 5.0E+04 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | |
| 22 | 5.0E+04 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | 9.9E+00 | |
| 23 | 8.8E+04 | 2.1E+00 | 5.4E+00 | 7.8E+00 | 1.2E+00 | 6.6E-03 | 7.5E-02 | 4.5E-05 | 4.3E-02 | 2.4E-05 | 4.9E-01 | 2.8E-03 | 1.2E-01 | 1.4E-02 | 9.7E-02 | 9.3E-01 | 4.5E-03 | 5.2E-02 | |
| 24 | 2.5E+03 | 1.7E+01 | 7.0E-02 | 5.9E-02 | 1.1E+01 | 8.7E-04 | 7.5E-02 | 4.4E-05 | 4.2E-02 | 2.3E-05 | 4.8E-01 | 2.7E-03 | 1.1E-01 | 1.3E-02 | 9.4E-02 | 9.0E-01 | 4.3E-03 | 5.1E-02 | |
| 25 | 2.0E+05 | 1.2E+03 | 1.8E+02 | 4.1E+01 | 7.2E+02 | 8.2E-03 | 1.7E+00 | 9.8E-04 | 9.4E-01 | 5.1E-04 | 1.1E+01 | 6.0E-02 | 2.5E+00 | 2.9E-01 | 2.1E+00 | 2.0E+01 | 9.7E-02 | 1.1E+00 | |
| 26 | 2.7E+03 | 1.6E+01 | 2.4E+00 | 5.4E-01 | 9.5E+00 | 1.1E-04 | 4.4E-02 | 2.6E-05 | 2.4E-02 | 1.3E-05 | 2.8E-01 | 1.6E-03 | 6.5E-02 | 7.7E-03 | 5.5E-02 | 5.2E-01 | 2.5E-03 | 3.0E-02 | |
| 28 | 4.3E+02 | 2.8E+00 | 2.6E-02 | 1.9E-02 | 9.8E-01 | 4.1E-05 | 1.3E-02 | 7.5E-06 | 7.2E-03 | 3.9E-06 | 8.2E-02 | 4.6E-04 | 1.9E-02 | 2.2E-03 | 1.6E-02 | 1.5E-01 | 7.4E-04 | 8.7E-03 | |
| 30 | 7.3E+04 | 4.7E+02 | 4.4E+00 | 3.2E+00 | 1.6E+02 | 6.8E-03 | 1.7E+00 | 1.0E-03 | 9.5E-01 | 5.2E-04 | 1.1E+01 | 6.1E-02 | 2.5E+00 | 3.0E-01 | 2.1E+00 | 2.0E+01 | 9.9E-02 | 1.2E+00 | |
| 31 | 5.2E+04 | 1.1E+02 | 5.9E+01 | 1.1E+01 | 2.2E+02 | 7.9E-04 | 5.7E-01 | 3.3E-04 | 3.2E-01 | 1.7E-04 | 3.6E+00 | 2.0E-02 | 8.5E-01 | 1.0E-01 | 7.1E-01 | 6.8E+00 | 3.3E-02 | 3.9E-01 | |
| 33 | 8.8E+03 | 1.3E+01 | 5.4E-01 | 1.2E-01 | 1.9E+00 | 2.5E-05 | 2.1E-01 | 1.2E-04 | 1.2E-01 | 6.3E-05 | 1.3E+00 | 7.4E-03 | 3.1E-01 | 3.6E-02 | 2.6E-01 | 2.5E+00 | 1.2E-02 | 1.4E-01 | |
| 34 | 6.2E+04 | 4.1E+02 | 3.5E+00 | 2.7E+00 | 1.5E+02 | 6.0E-03 | 8.4E-01 | 4.9E-04 | 4.7E-01 | 2.6E-04 | 5.4E+00 | 3.0E-02 | 1.3E+00 | 1.5E-01 | 1.1E+00 | 1.0E+01 | 4.9E-02 | 5.7E-01 | |
| 35 | 1.3E+02 | 1.9E-02 | 5.4E-04 | 2.2E-04 | 2.9E-03 | 1.5E-07 | 8.1E-03 | 4.7E-06 | 4.5E-03 | 2.5E-06 | 5.2E-02 | 2.9E-04 | 1.2E-02 | 1.4E-03 | 1.0E-02 | 9.7E-02 | 4.7E-04 | 5.5E-03 | |
| 36 | 9.3E+04 | 4.9E+02 | 6.3E+00 | 3.9E+00 | 3.4E+02 | 8.4E-03 | 1.2E-01 | 7.3E-05 | 6.9E-02 | 3.8E-05 | 7.9E-01 | 4.4E-03 | 1.8E-01 | 2.2E-02 | 1.6E-01 | 1.5E+00 | 7.2E-03 | 8.4E-02 | |
| 38 | 4.4E+05 | 2.0E+03 | 1.7E+02 | 6.4E+01 | 1.0E+03 | 1.9E-01 | 2.8E-01 | 1.7E-04 | 1.6E-01 | 8.6E-05 | 1.8E+00 | 1.0E-02 | 4.2E-01 | 5.0E-02 | 3.6E-01 | 3.4E+00 | 1.6E-02 | 1.9E-01 | |
| 39 | 1.9E+03 | 1.3E+01 | 5.2E-02 | 4.4E-02 | 8.4E+00 | 6.5E-04 | 4.4E-04 | 2.6E-07 | 2.4E-04 | 1.3E-07 | 2.8E-03 | 1.6E-05 | 6.5E-04 | 7.7E-05 | 5.2E-04 | 5.2E-03 | 2.5E-05 | 3.0E-04 | |
| 41 | 1.4E+04 | 7.6E+01 | 3.8E+00 | 1.4E+00 | 2.1E+01 | 2.6E-03 | 1.8E-01 | 1.1E-04 | 1.0E-01 | 5.5E-05 | 1.2E+00 | 6.5E-03 | 2.7E-01 | 3.2E-02 | 2.3E-01 | 2.2E+00 | 1.1E-02 | 1.2E-01 | |
| 42 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 43 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 44 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 45 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 46 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 47 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 48 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 49 | 1.7E+05 | 1.1E+03 | 4.7E+00 | 4.0E+00 | 7.6E+02 | 5.9E-02 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 8.2E-01 | 4.6E-03 | 1.9E-01 | 2.3E-02 | 1.6E-01 | 1.5E+00 | 7.4E-03 | 8.7E-02 | |
| 50 | 1.4E+05 | 5.5E+02 | 2.1E+01 | 8.0E+00 | 1.8E+02 | 3.1E-02 | 5.3E-01 | 3.1E-04 | 3.0E-01 | 1.6E-04 | 3.4E+00 | 1.9E-02 | 7.9E-01 | 9.3E-02 | 6.7E-01 | 6.4E+00 | 3.1E-02 | 3.6E-01 | |
| 51 | 1.9E+06 | 7.6E+03 | 6.3E+02 | 1.8E+02 | 4.2E+03 | 3.3E-01 | 2.3E+01 | 1.3E-02 | 1.3E+01 | 6.9E-03 | 1.5E+02 | 8.1E-01 | 3.4E+01 | 4.0E+00 | 2.9E+01 | 2.7E+02 | 1.3E+00 | 1.5E+01 | |
| Phase Totals | | | | | | | | | | | | | | | | | | | |

Table A-5: Sludge Interstitial Liquid Phase Inventory, Continued

| Tank | Sludge IL Volume, gal | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Am-243 (Ci) | Cm-242 (Ci) | Cm-243 (Ci) | Cm-247 (Ci) | Cm-248 (Ci) | Bk-249 (Ci) | Cf-249 (Ci) | Cf-251 (Ci) | Cf-252 (Ci) |
|--------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 4.9E+03 | 3.3E-10 | 4.8E-06 | 7.9E-10 | 1.7E-06 | 4.0E-08 | 2.2E-09 | 2.0E-07 | 1.2E-03 | 2.0E-04 | 4.7E-05 | 9.1E-15 | 9.5E-15 | 7.0E-22 | 5.3E-14 | 1.8E-15 | 5.9E-17 |
| 2 | 2.8E+03 | 1.9E-10 | 2.8E-06 | 4.6E-10 | 9.7E-07 | 2.3E-08 | 1.3E-09 | 1.2E-07 | 2.5E-04 | 4.3E-05 | 1.0E-05 | 2.0E-15 | 2.0E-15 | 1.5E-22 | 1.1E-14 | 3.9E-16 | 1.3E-17 |
| 3 | 2.8E+03 | 1.9E-10 | 2.8E-06 | 4.6E-10 | 9.7E-07 | 2.3E-08 | 1.3E-09 | 1.2E-07 | 2.5E-04 | 4.4E-05 | 1.0E-05 | 2.0E-15 | 2.1E-15 | 1.5E-22 | 1.1E-14 | 3.9E-16 | 1.3E-17 |
| 4 | 5.6E+03 | | | | | | | | 4.7E-05 | 8.0E-06 | 1.9E-06 | 3.6E-16 | 3.8E-16 | 2.8E-23 | 2.1E-15 | 7.2E-17 | 2.3E-18 |
| 5 | 1.3E+03 | 5.2E-10 | | 2.4E-11 | 6.4E-08 | 6.8E-11 | 1.9E-09 | 6.8E-15 | 6.9E-15 | 1.2E-15 | 2.8E-16 | 5.3E-26 | 5.5E-26 | 4.0E-33 | 3.1E-25 | 1.1E-26 | 3.4E-28 |
| 6 | 1.4E+03 | 1.7E-10 | | 9.2E-12 | 2.1E-08 | 2.6E-11 | 3.9E-09 | 6.9E-15 | 6.9E-15 | 1.2E-15 | 2.8E-16 | 5.4E-26 | 5.6E-26 | 4.1E-33 | 3.1E-25 | 1.1E-26 | 3.4E-28 |
| 7 | 1.8E+04 | 1.2E-09 | 1.7E-05 | 2.8E-09 | 1.4E-07 | 7.8E-09 | 7.3E-07 | 1.6E-04 | 1.6E-04 | 2.8E-05 | 6.5E-06 | 1.3E-15 | 1.3E-15 | 9.6E-23 | 7.3E-15 | 2.5E-16 | 8.1E-18 |
| 8 | 1.2E+04 | 1.3E-10 | 2.0E-05 | 3.1E-10 | 1.6E-08 | 8.7E-10 | 1.4E-07 | 1.0E-04 | 1.0E-04 | 1.7E-05 | 4.1E-06 | 7.9E-16 | 8.3E-16 | 6.0E-23 | 4.6E-15 | 1.6E-16 | 5.1E-18 |
| 9 | 1.9E+03 | 6.9E-11 | 1.1E-06 | 1.9E-10 | 6.2E-07 | 8.5E-09 | 5.3E-10 | 9.8E-09 | 1.6E-04 | 2.8E-05 | 6.0E-06 | 1.3E-15 | 1.3E-15 | 9.7E-23 | 7.4E-15 | 2.5E-16 | 8.2E-18 |
| 10 | 1.9E+03 | 6.9E-11 | 1.1E-06 | 1.9E-10 | 6.2E-07 | 8.5E-09 | 5.3E-10 | 9.8E-09 | 1.6E-04 | 2.8E-05 | 6.0E-06 | 1.3E-15 | 1.3E-15 | 9.7E-23 | 7.4E-15 | 2.5E-16 | 8.2E-18 |
| 11 | 6.7E+03 | 3.3E-11 | 1.3E-07 | 6.3E-11 | 5.1E-08 | 4.1E-09 | 8.0E-08 | 5.8E-06 | 5.8E-06 | 9.9E-07 | 2.3E-07 | 4.5E-17 | 4.7E-17 | 3.4E-24 | 2.6E-16 | 8.9E-18 | 2.9E-19 |
| 12 | 9.6E+03 | 1.0E-10 | 1.8E-05 | 2.0E-10 | 1.4E-06 | 1.3E-08 | 5.5E-10 | 1.1E-07 | 6.8E-05 | 1.2E-05 | 2.8E-06 | 5.3E-16 | 5.5E-16 | 4.0E-23 | 3.1E-15 | 1.1E-16 | 3.4E-18 |
| 13 | 1.9E+05 | 7.1E-09 | 1.1E-04 | 2.0E-08 | 6.3E-05 | 8.7E-07 | 5.4E-08 | 1.0E-06 | 2.9E-02 | 4.9E-03 | 1.2E-03 | 2.2E-13 | 2.3E-13 | 1.7E-20 | 1.3E-12 | 4.4E-14 | 1.4E-15 |
| 14 | 2.0E+04 | 5.0E-10 | 4.6E-05 | 4.1E-09 | 4.6E-06 | 6.2E-08 | 1.1E-08 | 7.1E-08 | 3.9E-03 | 6.7E-04 | 1.6E-04 | 3.1E-14 | 3.2E-14 | 2.3E-21 | 1.8E-13 | 6.0E-15 | 2.0E-16 |
| 16 | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 2.1E-09 | | 2.9E-09 | 4.0E-06 | 2.6E-07 | 8.0E-09 | 2.5E-06 | 9.6E-10 | 1.6E-10 | 3.9E-11 | 7.5E-21 | 7.8E-21 | 5.7E-28 | 4.3E-20 | 1.5E-21 | 4.8E-23 |
| 19 | 1.4E+03 | 3.7E-10 | | 1.0E-09 | 9.2E-06 | 4.6E-08 | 2.8E-09 | 5.8E-06 | 7.1E-09 | 1.2E-09 | 2.9E-10 | 5.6E-20 | 5.8E-20 | 4.2E-27 | 3.2E-19 | 1.1E-20 | 3.6E-22 |
| 21 | 3.7E+04 | 3.0E-09 | 4.0E-08 | 4.8E-09 | 3.6E-06 | 3.7E-07 | 1.3E-08 | 1.7E-08 | 1.0E-04 | 1.8E-05 | 4.2E-06 | 8.1E-16 | 8.4E-16 | 6.1E-23 | 4.7E-15 | 1.6E-16 | 5.2E-18 |
| 22 | 5.0E+04 | 5.7E-09 | | 8.8E-09 | 2.0E-05 | 7.0E-07 | 2.4E-08 | 6.0E-07 | 3.5E-06 | 6.0E-07 | 1.4E-07 | 2.7E-17 | 2.8E-17 | 2.1E-24 | 1.6E-16 | 5.4E-18 | 1.8E-19 |
| 23 | 8.8E+04 | 4.9E-07 | | 2.3E-08 | 6.0E-05 | 6.4E-08 | 6.4E-08 | 6.4E-08 | 2.2E-04 | 3.7E-05 | 8.8E-06 | 1.7E-15 | 1.8E-15 | 1.3E-22 | 9.8E-15 | 3.3E-16 | 1.1E-17 |
| 24 | 2.5E+03 | 1.6E-09 | | 2.3E-09 | 2.0E-07 | 2.0E-07 | 6.4E-09 | 4.0E-06 | 2.1E-04 | 3.6E-05 | 8.5E-06 | 1.6E-15 | 1.7E-15 | 1.2E-22 | 9.4E-15 | 3.2E-16 | 1.0E-17 |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | 2.0E+05 | 1.4E-14 | | 4.2E-07 | 5.5E-12 | 1.7E-12 | 1.2E-06 | 3.7E-05 | 4.7E-03 | 8.1E-04 | 1.9E-04 | 3.7E-14 | 3.8E-14 | 2.8E-21 | 2.1E-13 | 7.2E-15 | 2.3E-16 |
| 27 | 2.7E+03 | 1.9E-16 | | 5.5E-09 | 7.3E-14 | 2.3E-14 | 1.5E-08 | 5.0E-07 | 1.2E-04 | 2.1E-05 | 5.0E-06 | 9.6E-16 | 1.0E-15 | 7.3E-23 | 5.5E-15 | 1.9E-16 | 6.1E-18 |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | 4.3E+02 | 4.6E-11 | | 6.6E-11 | 5.6E-09 | 5.6E-09 | 1.8E-10 | 1.9E-07 | 3.6E-05 | 6.2E-06 | 1.5E-06 | 2.8E-16 | 2.9E-16 | 2.1E-23 | 1.6E-15 | 5.5E-17 | 1.8E-18 |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | 7.3E+04 | 7.7E-09 | | 1.1E-08 | 9.4E-07 | 9.4E-07 | 3.1E-08 | 3.1E-05 | 4.8E-03 | 8.2E-04 | 1.9E-04 | 3.7E-14 | 3.9E-14 | 2.8E-21 | 2.1E-13 | 7.3E-15 | 2.4E-16 |
| 33 | 5.2E+04 | 3.3E-10 | | 3.4E-07 | 4.0E-08 | 4.0E-08 | 9.5E-07 | 3.6E-06 | 1.6E-03 | 2.7E-04 | 6.5E-05 | 1.2E-14 | 1.3E-14 | 9.5E-22 | 7.2E-14 | 2.5E-15 | 8.0E-17 |
| 34 | 8.8E+03 | | | 1.1E-08 | 1.1E-11 | 1.1E-11 | 3.0E-08 | 1.1E-07 | 5.8E-04 | 1.0E-04 | 2.4E-05 | 4.5E-15 | 4.7E-15 | 3.5E-22 | 2.6E-14 | 9.0E-16 | 2.9E-17 |
| 35 | 6.2E+04 | 6.5E-09 | | 1.1E-08 | 7.9E-07 | 7.9E-07 | 3.2E-08 | 2.7E-05 | 2.8E-03 | 4.0E-04 | 9.5E-05 | 1.8E-14 | 1.9E-14 | 1.4E-21 | 1.1E-13 | 3.6E-15 | 1.2E-16 |
| 36 | 1.3E+02 | 4.7E-12 | 7.3E-08 | 1.3E-11 | 4.2E-08 | 5.8E-10 | 3.6E-11 | 6.7E-10 | 2.3E-05 | 3.9E-06 | 9.2E-07 | 1.8E-16 | 1.8E-16 | 1.3E-23 | 1.0E-15 | 3.5E-17 | 1.1E-18 |
| 37 | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | |
| 39 | 9.3E+04 | 3.9E-08 | | 6.2E-08 | 4.8E-06 | 4.8E-06 | 1.7E-07 | 3.8E-05 | 3.5E-04 | 5.9E-05 | 1.4E-05 | 2.7E-15 | 2.8E-15 | 2.1E-22 | 1.6E-14 | 5.3E-16 | 1.7E-17 |
| 40 | 4.4E+05 | 1.6E-06 | 1.9E-02 | 1.9E-06 | 9.2E-03 | 1.9E-04 | 5.3E-06 | 8.9E-04 | 7.9E-04 | 1.4E-04 | 3.2E-05 | 6.2E-15 | 6.5E-15 | 4.7E-22 | 3.6E-14 | 1.2E-15 | 4.0E-17 |
| 41 | 1.9E+03 | 1.2E-09 | | 1.7E-09 | 1.5E-07 | 4.8E-09 | 3.0E-06 | 2.1E-07 | 1.5E-06 | 2.1E-07 | 4.9E-08 | 9.5E-18 | 9.9E-18 | 7.3E-25 | 5.5E-17 | 1.9E-18 | 6.1E-20 |
| 42 | 1.4E+04 | 3.3E-08 | | 3.6E-08 | 1.4E-04 | 4.1E-06 | 1.0E-07 | 1.2E-05 | 5.1E-04 | 8.8E-05 | 2.1E-05 | 4.0E-15 | 4.2E-15 | 3.0E-22 | 2.3E-14 | 7.9E-16 | 2.6E-17 |
| 43 | 1.7E+05 | 1.1E-07 | | 1.6E-07 | 4.1E-05 | 4.3E-07 | 2.7E-04 | 2.7E-04 | 3.6E-04 | 6.2E-05 | 1.5E-05 | 2.8E-15 | 2.9E-15 | 2.1E-22 | 1.6E-14 | 5.5E-16 | 1.8E-17 |
| 44 | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | |
| 47 | 1.7E+05 | 1.2E-14 | | 3.6E-07 | 4.7E-12 | 1.5E-12 | 9.9E-07 | 3.2E-05 | 1.1E-02 | 1.8E-03 | 4.3E-04 | 8.3E-14 | 8.6E-14 | 6.3E-21 | 4.8E-13 | 1.6E-14 | 5.3E-16 |
| 48 | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | 1.4E+05 | 2.8E-07 | 6.0E-03 | 4.4E-07 | 1.1E-03 | 3.5E-05 | 1.2E-06 | 1.4E-04 | 1.0E-04 | 2.6E-04 | 6.0E-05 | 1.2E-14 | 1.2E-14 | 8.8E-22 | 6.7E-14 | 2.3E-15 | 7.4E-17 |
| Phase Totals | 1.9E+06 | 2.6E-06 | 2.6E-02 | 3.8E-06 | 1.0E-02 | 3.2E-04 | 1.1E-05 | 1.5E-03 | 6.2E-02 | 1.1E-02 | 2.6E-03 | 5.0E-13 | 5.2E-13 | 3.8E-20 | 2.9E-12 | 9.8E-14 | 3.2E-15 |

Table A-6: Salt Interstitial Liquid Phase Radionuclide Inventory

| Tank | Salt IL Volume, gal | H-3 (Ci) | C-14 (Ci) | Co-60 (Ci) | Ni-59 (Ci) | Ni-63 (Ci) | Se-79 (Ci) | Sr-90 (Ci) | Y-90 (Ci) | Nb-94 (Ci) | Tc-99 (Ci) | Ru-106 (Ci) | Rh-106 (Ci) | Sb-125 (Ci) | Sn-126 (Ci) | I-129 (Ci) |
|--------------|---------------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-------------|-------------|-------------|-------------|------------|
| 1 | 1.4E+05 | 5.4E+01 | 9.6E-01 | 5.6E-01 | 9.4E-02 | 1.4E+00 | 3.0E+00 | 7.0E+02 | 7.0E+02 | 2.3E-05 | 1.1E+03 | 5.8E+00 | 5.4E+00 | 7.4E+01 | 1.5E+01 | 4.5E-01 |
| 2 | 1.6E+05 | 6.1E+01 | 1.1E+00 | 6.3E-01 | 3.9E-02 | 1.5E+00 | 1.3E+00 | 2.9E+02 | 2.9E+02 | 9.7E-06 | 4.6E+02 | 2.4E+00 | 2.2E+00 | 3.1E+01 | 6.3E+00 | 1.9E-01 |
| 3 | 1.6E+05 | 6.1E+01 | 1.1E+00 | 6.3E-01 | 4.0E-02 | 1.5E+00 | 1.3E+00 | 2.9E+02 | 2.9E+02 | 9.8E-06 | 4.7E+02 | 2.4E+00 | 2.3E+00 | 3.1E+01 | 6.4E+00 | 1.9E-01 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 6.1E+01 | 1.1E+00 | 6.2E-01 | 3.8E-02 | 1.5E+00 | 1.2E+00 | 2.8E+02 | 2.8E+02 | 9.5E-06 | 4.5E+02 | 2.3E+00 | 2.2E+00 | 3.0E+01 | 6.2E+00 | 1.8E-01 |
| 10 | 6.3E+04 | 2.4E+01 | 4.2E-01 | 2.3E-01 | 2.6E-03 | 6.0E-01 | 8.5E-02 | 2.0E+01 | 2.0E+01 | 6.5E-07 | 3.1E+01 | 1.6E-01 | 1.5E-01 | 2.1E+00 | 4.3E-01 | 1.3E-02 |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 3.9E+04 | 1.5E+01 | 2.6E-01 | 1.5E-01 | 2.1E-02 | 3.7E-01 | 6.9E-01 | 1.6E+02 | 1.6E+02 | 5.3E-06 | 2.6E+02 | 1.3E+00 | 1.2E+00 | 1.7E+01 | 3.5E+00 | 1.0E-01 |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | 1.5E+05 | 5.7E+01 | 1.0E+00 | 5.9E-01 | 7.9E-03 | 1.4E+00 | 2.5E-01 | 5.9E+01 | 5.9E+01 | 2.0E-06 | 9.4E+01 | 4.8E-01 | 4.5E-01 | 6.2E+00 | 1.3E+00 | 3.8E-02 |
| 26 | | | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 5.0E+01 | 2.3E+00 | 1.4E+00 | 4.3E-02 | 3.3E+00 | 1.4E+00 | 3.2E+02 | 3.2E+02 | 1.1E-05 | 5.2E+02 | 2.7E+00 | 2.5E+00 | 3.4E+01 | 7.1E+00 | 2.1E-01 |
| 28 | 3.1E+05 | 1.2E+02 | 2.1E+00 | 1.2E+00 | 4.3E-02 | 2.9E+00 | 1.4E+00 | 3.2E+02 | 3.2E+02 | 1.1E-05 | 5.1E+02 | 2.6E+00 | 2.4E+00 | 3.4E+01 | 6.9E+00 | 2.0E-01 |
| 29 | 3.1E+05 | 1.2E+02 | 2.0E+00 | 1.2E+00 | 6.2E-03 | 2.9E+00 | 2.0E-01 | 4.6E+01 | 4.6E+01 | 1.5E-06 | 7.4E+01 | 3.8E-01 | 3.5E-01 | 4.9E+00 | 1.0E+00 | 2.9E-02 |
| 30 | 8.9E+04 | 3.0E+00 | 5.9E-01 | 3.5E-01 | 2.0E-02 | 8.5E-01 | 6.6E-01 | 1.5E+02 | 1.5E+02 | 5.1E-06 | 2.4E+02 | 1.3E+00 | 1.2E+00 | 1.6E+01 | 3.3E+00 | 9.7E-02 |
| 31 | 3.4E+05 | 1.3E+02 | 2.3E+00 | 1.3E+00 | 1.3E-01 | 3.3E+00 | 4.1E+00 | 9.4E+02 | 9.4E+02 | 3.1E-05 | 1.5E+03 | 7.7E+00 | 7.2E+00 | 1.0E+02 | 2.1E+01 | 6.0E-01 |
| 32 | 4.1E+04 | 1.7E+00 | 2.7E-01 | 1.6E-01 | 7.4E-03 | 3.9E-01 | 2.4E-01 | 5.5E+01 | 5.5E+01 | 1.8E-06 | 8.8E+01 | 4.6E-01 | 4.2E-01 | 5.9E+00 | 1.2E+00 | 3.5E-02 |
| 33 | 8.8E+04 | 7.0E+00 | 5.9E-01 | 3.4E-01 | 7.5E-03 | 8.3E-01 | 2.4E-01 | 5.6E+01 | 5.6E+01 | 1.9E-06 | 8.9E+01 | 4.6E-01 | 4.3E-01 | 5.9E+00 | 1.2E+00 | 3.6E-02 |
| 34 | 5.7E+04 | 4.9E+00 | 3.8E-01 | 2.2E-01 | 1.0E-02 | 5.4E-01 | 3.3E-01 | 7.8E+01 | 7.8E+01 | 2.6E-06 | 1.2E+02 | 6.4E-01 | 5.9E-01 | 8.2E+00 | 1.7E+00 | 5.0E-02 |
| 35 | | | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 1.2E+02 | 2.1E+00 | 1.2E+00 | 1.5E-01 | 2.9E+00 | 4.8E+00 | 1.1E+03 | 1.1E+03 | 3.7E-05 | 1.8E+03 | 9.2E+00 | 8.5E+00 | 1.2E+02 | 2.4E+01 | 7.1E-01 |
| 37 | 3.2E+05 | 1.3E+01 | 2.1E+00 | 1.3E+00 | 1.1E-02 | 3.0E+00 | 3.5E-01 | 8.1E+01 | 8.1E+01 | 2.7E-06 | 1.3E+02 | 6.7E-01 | 6.2E-01 | 8.6E+00 | 1.8E+00 | 5.2E-02 |
| 38 | 2.4E+05 | 4.1E-01 | 1.6E+00 | 9.5E-01 | 1.8E-03 | 2.3E+00 | 5.6E-02 | 1.3E+01 | 1.3E+01 | 4.3E-07 | 2.1E+01 | 1.1E-01 | 1.0E-01 | 1.4E+00 | 2.8E-01 | 8.3E-03 |
| 39 | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | |
| 41 | 1.8E+05 | 6.7E+01 | 1.2E+00 | 6.9E-01 | 3.2E-04 | 1.7E+00 | 1.0E-02 | 2.4E+00 | 2.4E+00 | 8.0E-08 | 3.8E+00 | 2.0E-02 | 1.8E-02 | 2.5E-01 | 5.2E-02 | 1.5E-03 |
| 42 | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 1.1E+02 | 2.0E+00 | 1.2E+00 | 3.5E-02 | 2.9E+00 | 1.1E+00 | 2.6E+02 | 2.6E+02 | 8.7E-06 | 4.2E+02 | 2.2E+00 | 2.0E+00 | 2.8E+01 | 5.7E+00 | 1.7E-01 |
| 45 | 3.3E+05 | 3.0E+01 | 2.2E+00 | 1.3E+00 | 4.9E-02 | 3.1E+00 | 1.6E+00 | 3.7E+02 | 3.7E+02 | 1.2E-05 | 5.9E+02 | 3.0E+00 | 2.8E+00 | 3.9E+01 | 8.0E+00 | 2.3E-01 |
| 46 | 3.5E+05 | 1.7E+01 | 2.3E+00 | 1.4E+00 | 7.8E-02 | 3.3E+00 | 2.5E+00 | 5.8E+02 | 5.8E+02 | 1.9E-05 | 9.3E+02 | 4.8E+00 | 4.5E+00 | 6.2E+01 | 1.3E+01 | 3.7E-01 |
| 47 | 2.3E+05 | 1.6E+01 | 1.5E+00 | 9.0E-01 | 3.9E-02 | 2.2E+00 | 1.3E+00 | 2.9E+02 | 2.9E+02 | 9.7E-06 | 4.7E+02 | 2.4E+00 | 2.2E+00 | 3.1E+01 | 6.3E+00 | 1.9E-01 |
| 48 | | | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 8.2E-04 | 3.1E-04 | 2.5E-06 | 1.4E-04 | 4.6E-05 | 2.0E-05 | 9.0E-02 | 9.0E-02 | 2.1E-10 | 1.7E-02 | 8.3E-06 | 8.3E-06 | 1.2E-05 | 8.6E-05 | 4.4E-06 |
| 50 | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 1.1E+03 | 3.2E+01 | 1.8E+01 | 8.7E-01 | 4.5E+01 | 2.8E+01 | 6.5E+03 | 6.5E+03 | 2.2E-04 | 1.0E+04 | 5.3E+01 | 5.0E+01 | 6.9E+02 | 1.4E+02 | 4.1E+00 |

Table A-6: Salt Interstitial Liquid Phase Radionuclide Inventory, Continued

| Tank | Salt IL Volume, gal | Cs-134 (Ci) | Cs-135 (Ci) | Cs-137 (Ci) | Ba-137m (Ci) | Ce-144 (Ci) | Pr-144 (Ci) | Pm-147 (Ci) | Eu-154 (Ci) | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) |
|--------------|---------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|
| 1 | 1.4E+05 | 2.7E+03 | 1.2E+01 | 2.9E+06 | 2.7E+06 | 2.1E-02 | 2.0E-02 | 3.3E+01 | 1.8E+01 | 1.4E-04 | 4.7E-05 | 1.7E-02 | 4.2E-03 | 1.0E-04 | 4.1E-05 | 2.9E-03 | 3.4E-03 |
| 2 | 1.6E+05 | 1.1E+03 | 4.8E+00 | 1.2E+06 | 1.1E+06 | 8.8E-03 | 8.4E-03 | 1.4E+01 | 7.3E+00 | 1.6E-04 | 5.2E-05 | 1.9E-02 | 4.7E-03 | 1.1E-04 | 4.6E-05 | 3.2E-03 | 3.9E-03 |
| 3 | 1.6E+05 | 1.1E+03 | 4.9E+00 | 1.2E+06 | 1.1E+06 | 8.9E-03 | 8.5E-03 | 1.4E+01 | 7.4E+00 | 1.6E-04 | 5.2E-05 | 1.9E-02 | 4.7E-03 | 1.1E-04 | 4.6E-05 | 3.2E-03 | 3.9E-03 |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 1.1E+03 | 4.7E+00 | 1.2E+06 | 1.1E+06 | 8.5E-03 | 8.2E-03 | 1.3E+01 | 7.1E+00 | 9.0E-05 | 2.2E-05 | 1.8E-02 | 2.6E-03 | 7.1E-05 | 2.7E-04 | 8.3E-04 | 6.7E-03 |
| 10 | 6.3E+04 | 7.4E+01 | 3.3E-01 | 8.0E+04 | 7.5E+04 | 5.9E-04 | 5.7E-04 | 9.2E-01 | 4.9E-01 | 3.6E-05 | 8.9E-06 | 7.3E-03 | 1.0E-03 | 2.8E-05 | 1.1E-04 | 3.3E-04 | 2.6E-03 |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | 3.9E+04 | 6.0E+02 | 2.6E+00 | 6.5E+05 | 6.1E+05 | 4.8E-03 | 4.6E-03 | 7.5E+00 | 4.0E+00 | 9.1E-05 | 2.6E-05 | 3.2E-03 | 4.4E-04 | 3.6E-05 | 3.8E-05 | 6.8E-04 | 4.7E-03 |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 1.5E+05 | 2.2E+02 | 9.8E-01 | 2.4E+05 | 2.3E+05 | 1.8E-03 | 1.7E-03 | 2.8E+00 | 1.5E+00 | 4.4E-04 | 4.4E-04 | 1.4E-09 | 4.6E-09 | 1.4E-03 | 1.8E-04 | 1.6E-01 | 4.2E-04 |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 1.2E+03 | 5.4E+00 | 1.3E+06 | 1.2E+06 | 9.7E-03 | 9.4E-03 | 1.5E+01 | 8.1E+00 | 1.0E-03 | 1.0E-03 | 3.3E-09 | 1.1E-08 | 3.1E-03 | 4.0E-04 | 3.8E-01 | 9.7E-04 |
| 28 | 3.1E+05 | 1.2E+03 | 5.3E+00 | 1.3E+06 | 1.2E+06 | 9.6E-03 | 9.2E-03 | 1.5E+01 | 7.9E+00 | 9.1E-04 | 9.1E-04 | 2.9E-09 | 9.4E-09 | 2.8E-03 | 3.6E-04 | 3.3E-01 | 8.6E-04 |
| 29 | 3.1E+05 | 1.7E+02 | 7.6E-01 | 1.9E+05 | 1.8E+05 | 1.4E-03 | 1.3E-03 | 2.2E+00 | 1.2E+00 | 1.7E-04 | 4.3E-05 | 3.5E-02 | 5.0E-03 | 1.4E-04 | 5.1E-04 | 1.6E-03 | 1.3E-02 |
| 30 | 8.9E+04 | 5.8E+02 | 2.5E+00 | 6.2E+05 | 5.9E+05 | 4.6E-03 | 4.4E-03 | 7.2E+00 | 3.8E+00 | 4.8E-05 | 4.8E-05 | 3.9E-02 | 4.2E-03 | 6.0E-05 | 9.4E-04 | 2.8E-05 | 1.7E-03 |
| 31 | 3.4E+05 | 3.8E+03 | 1.6E+01 | 3.8E+06 | 3.6E+06 | 2.8E-02 | 2.7E-02 | 4.4E+01 | 2.3E+01 | 1.9E-04 | 4.8E-05 | 3.9E-02 | 5.6E-03 | 1.5E-04 | 5.7E-04 | 1.8E-03 | 1.4E-02 |
| 32 | 4.1E+04 | 2.1E+02 | 9.2E-01 | 2.3E+05 | 2.1E+05 | 1.7E-03 | 1.6E-03 | 2.6E+00 | 1.4E+00 | 1.4E-03 | 1.4E-03 | 6.5E-09 | 1.9E-03 | 2.8E-05 | 4.3E-04 | 1.3E-05 | 8.0E-04 |
| 33 | 8.8E+04 | 2.1E+02 | 9.3E-01 | 2.3E+05 | 2.2E+05 | 1.7E-03 | 1.6E-03 | 2.6E+00 | 1.4E+00 | 1.4E-03 | 1.4E-03 | 6.5E-09 | 2.5E-04 | 2.6E-03 | 1.4E-03 | 3.7E-01 | 1.1E-01 |
| 34 | 5.7E+04 | 2.9E+02 | 1.3E+00 | 3.2E+05 | 3.0E+05 | 2.3E-03 | 2.2E-03 | 3.6E+00 | 1.9E+00 | 2.9E-04 | 2.9E-04 | 2.9E-04 | 3.1E-04 | 3.1E-04 | 2.2E-02 | 2.2E-02 | 1.7E-02 |
| 35 | | | | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 4.2E+03 | 1.8E+01 | 4.5E+06 | 4.3E+06 | 3.3E-02 | 3.2E-02 | 5.2E+01 | 2.8E+01 | 1.7E-04 | 4.4E-05 | 3.6E-02 | 5.0E-03 | 1.4E-04 | 5.2E-04 | 1.6E-03 | 1.3E-02 |
| 37 | 3.2E+05 | 3.1E+02 | 1.3E+00 | 3.3E+05 | 3.1E+05 | 2.4E-03 | 2.4E-03 | 3.8E+00 | 2.0E+00 | 1.7E-04 | 4.4E-05 | 3.6E-02 | 1.5E-02 | 2.2E-04 | 3.4E-03 | 1.0E-04 | 6.3E-03 |
| 38 | 2.4E+05 | 4.9E+01 | 2.2E-01 | 5.3E+04 | 5.0E+04 | 3.9E-04 | 3.8E-04 | 6.1E-01 | 3.3E-01 | 7.1E-02 | 9.8E-04 | 7.1E-02 | 7.1E-02 | 9.8E-04 | 1.4E-02 | 8.0E-05 | 7.6E-02 |
| 39 | | | | | | | | | | | | | | | | | |
| 40 | 1.8E+05 | 9.1E+00 | 4.0E-02 | 9.7E+03 | 9.2E+03 | 7.2E-05 | 6.9E-05 | 1.1E-01 | 6.0E-02 | 5.2E-02 | 5.2E-02 | 5.2E-02 | 5.2E-02 | 7.2E-04 | 9.9E-03 | 5.8E-05 | 5.6E-02 |
| 41 | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 9.9E+02 | 4.3E+00 | 1.1E+06 | 1.0E+06 | 7.9E-03 | 7.6E-03 | 1.2E+01 | 6.5E+00 | 8.9E-04 | 8.9E-04 | 2.9E-09 | 9.2E-09 | 2.7E-03 | 3.5E-04 | 3.3E-01 | 8.4E-04 |
| 45 | 3.3E+05 | 1.4E+03 | 6.1E+00 | 1.5E+06 | 1.4E+06 | 1.1E-02 | 1.1E-02 | 1.7E+01 | 9.2E+00 | 9.8E-04 | 9.8E-04 | 3.2E-09 | 1.0E-08 | 3.0E-03 | 3.9E-04 | 3.6E-01 | 9.2E-04 |
| 46 | 3.5E+05 | 2.2E+03 | 9.7E+00 | 2.4E+06 | 2.2E+06 | 1.8E-02 | 1.7E-02 | 2.7E+01 | 1.5E+01 | 1.0E-03 | 1.0E-03 | 3.3E-09 | 1.1E-08 | 3.1E-03 | 4.0E-04 | 3.7E-01 | 9.7E-04 |
| 47 | 2.3E+05 | 1.1E+03 | 4.8E+00 | 1.2E+06 | 1.1E+06 | 8.8E-03 | 8.4E-03 | 1.4E+01 | 7.3E+00 | 6.8E-04 | 6.8E-04 | 2.2E-09 | 7.1E-09 | 2.1E-03 | 2.7E-04 | 2.5E-01 | 6.5E-04 |
| 48 | | | | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 1.4E-02 | 2.3E-04 | 1.6E+01 | 1.5E+01 | 5.8E-06 | 5.8E-06 | 1.2E-04 | 2.3E-05 | 3.0E-09 | 5.2E-07 | 4.1E-05 | 1.7E-04 | 7.1E-08 | 6.6E-07 | 6.3E-07 | 6.0E-06 |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 2.5E+04 | 1.1E+02 | 2.6E+07 | 2.5E+07 | 2.0E-01 | 1.9E-01 | 3.0E+02 | 1.6E+02 | 1.2E-03 | 8.0E-03 | 2.0E-01 | 1.8E-01 | 2.4E-02 | 3.4E-02 | 2.6E+00 | 3.4E-01 |

Table A-6: Salt Interstitial Liquid Phase Radionuclide Inventory, Continued

| Tank | Salt IL Volume, gal | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Na-22 (Ci) | Al-26 (Ci) | Te-125m (Ci) | Sb-126 (Ci) | Sb-126m (Ci) | Sm-151 (Ci) | Eu-152 (Ci) | Eu-155 (Ci) |
|--------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|------------|------------|--------------|-------------|--------------|-------------|-------------|-------------|
| 1 | 1.4E+05 | 1.4E+01 | 1.2E+00 | 3.7E-01 | 5.5E+00 | 1.3E-03 | 1.2E+01 | 7.2E-03 | 6.8E+00 | 3.7E-03 | 7.8E+01 | 4.4E-01 | 1.8E+01 | 2.1E+00 | 1.5E+01 | 1.5E+02 | 7.1E-01 | 8.3E+00 |
| 2 | 1.6E+05 | 1.5E+01 | 1.3E+00 | 4.1E-01 | 6.1E+00 | 1.5E-03 | 5.0E+00 | 3.0E-03 | 2.8E+00 | 1.5E-03 | 3.2E+01 | 1.8E-01 | 7.5E+00 | 8.9E-01 | 6.3E+00 | 6.1E+01 | 2.9E-01 | 3.4E+00 |
| 3 | 1.6E+05 | 1.5E+01 | 1.3E+00 | 4.1E-01 | 6.1E+00 | 1.5E-03 | 5.1E+00 | 3.0E-03 | 2.9E+00 | 1.6E-03 | 3.3E+01 | 1.8E-01 | 7.6E+00 | 9.0E-01 | 6.4E+00 | 6.1E+01 | 3.0E-01 | 3.5E+00 |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 2.3E+01 | 6.6E-01 | 2.7E-01 | 3.6E+00 | 1.8E-04 | 4.9E+00 | 2.9E-03 | 2.8E+00 | 1.5E-03 | 3.2E+01 | 1.8E-01 | 7.3E+00 | 8.7E-01 | 6.2E+00 | 5.9E+01 | 2.9E-01 | 3.3E+00 |
| 10 | 6.3E+04 | 9.2E+00 | 2.6E-01 | 1.1E-01 | 1.4E+00 | 7.2E-05 | 3.4E-01 | 2.0E-04 | 1.9E-01 | 1.0E-04 | 2.2E+00 | 1.2E-02 | 5.1E-01 | 6.0E-02 | 4.3E-01 | 4.1E+00 | 2.0E-02 | 2.3E-01 |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| 25 | 1.5E+05 | 8.7E+02 | 1.4E+02 | 3.0E+01 | 5.3E+02 | 6.1E-03 | 1.0E+00 | 6.0E-04 | 5.7E-01 | 3.1E-04 | 6.5E+00 | 3.6E-02 | 1.5E+00 | 1.8E-01 | 1.3E+00 | 1.2E+01 | 5.9E-02 | 6.9E-01 |
| 26 | | | | | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 2.0E+03 | 3.1E+02 | 7.0E+01 | 1.2E+03 | 1.4E-02 | 5.6E+00 | 3.3E-03 | 3.2E+00 | 1.7E-03 | 3.6E+01 | 2.0E-01 | 8.4E+00 | 9.9E-01 | 7.1E+00 | 6.7E+01 | 3.3E-01 | 3.8E+00 |
| 28 | 3.1E+05 | 1.8E+03 | 2.8E+02 | 6.2E+01 | 1.1E+03 | 1.2E-02 | 5.5E+00 | 3.2E-03 | 3.1E+00 | 1.7E-03 | 3.5E+01 | 2.0E-01 | 8.2E+00 | 9.7E-01 | 6.9E+00 | 6.6E+01 | 3.2E-01 | 3.7E+00 |
| 29 | 3.1E+05 | 4.5E+01 | 1.3E+00 | 5.2E-01 | 8.0E-01 | 3.5E-04 | 8.0E-01 | 4.7E-04 | 4.5E-01 | 2.4E-04 | 5.1E+00 | 2.9E-02 | 1.2E+00 | 1.4E-01 | 1.0E+00 | 9.6E+00 | 4.6E-02 | 5.4E-01 |
| 30 | 8.9E+04 | 5.8E+02 | 5.4E+00 | 4.0E+00 | 2.0E+02 | 8.4E-03 | 2.6E+00 | 1.6E-03 | 1.5E+00 | 8.0E-04 | 1.7E+01 | 9.4E-02 | 3.9E+00 | 4.6E-01 | 3.3E+00 | 3.2E+01 | 1.5E-01 | 1.8E+00 |
| 31 | 3.4E+05 | 5.0E+01 | 1.4E+00 | 5.9E-01 | 7.7E+00 | 3.9E-04 | 1.6E+01 | 9.6E-03 | 9.2E+00 | 5.0E-03 | 1.0E+02 | 5.8E-01 | 2.4E+01 | 2.9E+00 | 2.1E+01 | 2.0E+02 | 9.5E-01 | 1.1E+01 |
| 32 | 4.1E+04 | 2.7E+02 | 2.5E+00 | 1.8E+00 | 9.3E+01 | 3.9E-03 | 9.6E-01 | 5.6E-04 | 5.4E-01 | 2.9E-04 | 6.1E+00 | 3.4E-02 | 1.4E+00 | 1.7E-01 | 1.2E+00 | 1.2E+01 | 5.6E-02 | 6.5E-01 |
| 33 | 8.8E+04 | 1.8E+02 | 1.0E+02 | 1.8E+01 | 3.8E+02 | 1.3E-03 | 9.7E-01 | 5.7E-04 | 5.5E-01 | 3.0E-04 | 6.2E+00 | 3.5E-02 | 1.4E+00 | 1.7E-01 | 1.2E+00 | 1.2E+01 | 5.6E-02 | 6.6E-01 |
| 34 | 5.7E+04 | | 3.5E+00 | 7.8E-01 | 1.2E+01 | 1.6E-04 | 1.3E+00 | 7.9E-04 | 7.6E-01 | 4.1E-04 | 8.6E+00 | 4.8E-02 | 2.0E+00 | 2.4E-01 | 1.7E+00 | 1.6E+01 | 7.8E-02 | 9.1E-01 |
| 35 | | | | | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 4.5E+01 | 1.3E+00 | 5.3E-01 | 6.9E+00 | 3.5E-04 | 1.9E+01 | 1.1E-02 | 1.1E+01 | 5.9E-03 | 1.2E+02 | 6.9E-01 | 2.9E+01 | 3.4E+00 | 2.4E+01 | 2.3E+02 | 1.1E+00 | 1.3E+01 |
| 37 | 3.2E+05 | 2.1E+03 | 1.9E+01 | 1.4E+01 | 7.3E+02 | 3.0E-02 | 1.4E+00 | 8.3E-04 | 7.9E-01 | 4.3E-04 | 9.0E+00 | 5.0E-02 | 2.1E+00 | 2.5E-01 | 1.8E+00 | 1.7E+00 | 8.2E-02 | 9.5E-01 |
| 38 | 2.4E+05 | 1.6E+03 | 6.8E+00 | 5.8E+00 | 1.1E+03 | 8.5E-02 | 2.3E-01 | 1.3E-04 | 1.3E-01 | 6.9E-05 | 1.4E+00 | 8.1E-03 | 3.4E-01 | 4.0E-02 | 2.8E-01 | 2.7E+00 | 1.3E-02 | 1.3E-01 |
| 39 | | | | | | | | | | | | | | | | | | |
| 40 | 1.8E+05 | 1.2E+03 | 5.0E+00 | 4.2E+00 | 8.0E+02 | 6.2E-02 | 4.1E-02 | 2.4E-05 | 2.3E-02 | 1.3E-05 | 2.7E-01 | 1.5E-03 | 6.2E-02 | 7.3E-03 | 5.2E-02 | 5.0E-01 | 2.4E-03 | 2.8E-02 |
| 41 | | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 1.7E+03 | 2.7E+02 | 6.1E+01 | 1.1E+03 | 1.2E-02 | 4.5E+00 | 2.7E-03 | 2.5E+00 | 1.4E-03 | 2.9E+01 | 1.6E-01 | 6.8E+00 | 8.0E-01 | 5.7E+00 | 5.4E+01 | 2.6E-01 | 3.1E+00 |
| 45 | 3.3E+05 | 1.9E+03 | 3.0E+02 | 6.7E+01 | 1.2E+03 | 1.3E-02 | 6.4E+00 | 3.7E-03 | 3.6E+00 | 1.9E-03 | 4.1E+01 | 2.3E-01 | 9.5E+00 | 1.1E+00 | 8.0E+00 | 7.6E+01 | 3.7E-01 | 4.3E+00 |
| 46 | 3.5E+05 | 2.0E+03 | 3.1E+02 | 7.0E+01 | 1.2E+03 | 1.4E-02 | 1.0E+01 | 5.9E-03 | 5.7E+00 | 3.1E-03 | 6.5E+01 | 3.6E-01 | 1.5E+01 | 1.8E+00 | 1.3E+01 | 1.2E+02 | 5.9E-01 | 6.9E+00 |
| 47 | 2.3E+05 | 1.3E+03 | 2.1E+02 | 4.7E+01 | 8.2E+02 | 9.3E-03 | 5.1E+00 | 3.0E-03 | 2.8E+00 | 1.5E-03 | 3.2E+01 | 1.8E-01 | 7.5E+00 | 8.9E-01 | 6.3E+00 | 6.1E+01 | 2.9E-01 | 3.4E+00 |
| 48 | | | | | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 1.1E-02 | 2.9E-04 | 2.9E-04 | 1.9E-02 | 2.7E-05 | 7.1E-04 | 6.3E-08 | 2.1E-04 | 3.3E-08 | 6.8E-04 | 3.8E-06 | 1.6E-04 | 1.9E-05 | 1.3E-04 | 1.5E-04 | 6.2E-06 | 5.8E-05 |
| 50 | | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 1.8E+04 | 2.0E+03 | 4.6E+02 | 1.0E+04 | 2.8E-01 | 1.1E+02 | 6.6E-02 | 6.3E+01 | 3.4E-02 | 7.2E+02 | 4.0E+00 | 1.7E+02 | 2.0E+01 | 1.4E+02 | 1.4E+03 | 6.5E+00 | 7.6E+01 |

Table A-6: Salt Interstitial Liquid Phase Radionuclide Inventory, Continued

| Tank | Salt IL Volume, gal | Ra-226 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Am-243 (Ci) | Cm-242 (Ci) | Cm-243 (Ci) | Cm-247 (Ci) | Cm-248 (Ci) | Bk-249 (Ci) | Cf-249 (Ci) | Cf-251 (Ci) | Cf-252 (Ci) | |
|---------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
| 1 | 1.4E+05 | 9.6E-09 | 1.4E-04 | 2.3E-08 | 4.9E-05 | 1.2E-06 | 6.4E-08 | 6.0E-06 | 3.4E-02 | 5.9E-03 | 1.4E-03 | 2.7E-13 | 2.8E-13 | 2.0E-20 | 1.5E-12 | 5.3E-14 | 1.7E-15 |
| 2 | 1.6E+05 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.5E-05 | 1.3E-06 | 7.2E-08 | 6.7E-06 | 1.4E-02 | 2.4E-03 | 1.1E-13 | 1.2E-13 | 8.4E-21 | 6.4E-13 | 2.2E-14 | 7.1E-16 | 7.1E-16 |
| 3 | 1.6E+05 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.5E-05 | 1.3E-06 | 7.2E-08 | 6.7E-06 | 1.4E-02 | 2.5E-03 | 1.1E-13 | 1.2E-13 | 8.5E-21 | 6.5E-13 | 2.2E-14 | 7.2E-16 | 7.2E-16 |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 5.8E-09 | 9.0E-05 | 1.6E-08 | 5.2E-05 | 7.2E-07 | 4.5E-08 | 8.3E-07 | 1.4E-02 | 2.4E-03 | 1.1E-13 | 1.1E-13 | 8.2E-21 | 6.2E-13 | 2.1E-14 | 6.9E-16 | 6.9E-16 |
| 10 | 6.3E+04 | 2.3E-09 | 3.6E-05 | 6.4E-09 | 2.1E-05 | 2.8E-07 | 1.8E-08 | 3.3E-07 | 9.3E-04 | 3.9E-05 | 7.4E-15 | 7.8E-15 | 5.7E-22 | 4.3E-14 | 1.5E-15 | 4.8E-17 | 4.8E-17 |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | 3.9E+04 | 1.0E-09 | 9.1E-05 | 8.2E-09 | 9.2E-06 | 1.2E-07 | 2.3E-08 | 1.4E-07 | 7.8E-03 | 1.3E-03 | 6.1E-14 | 6.3E-14 | 4.6E-21 | 3.5E-13 | 1.2E-14 | 3.9E-16 | 3.9E-16 |
| 16 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | 1.5E+05 | 1.0E-14 | 3.1E-07 | 4.1E-12 | 1.3E-12 | 8.6E-07 | 2.8E-05 | 2.9E-03 | 4.9E-04 | 1.2E-04 | 2.2E-14 | 2.3E-14 | 1.7E-21 | 1.3E-13 | 4.4E-15 | 1.4E-16 | 1.4E-16 |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 2.4E-14 | 7.1E-07 | 9.4E-12 | 2.9E-12 | 2.0E-06 | 6.4E-05 | 1.6E-02 | 2.7E-03 | 6.4E-04 | 1.2E-13 | 1.3E-13 | 9.4E-21 | 7.1E-13 | 2.4E-14 | 7.9E-16 | 7.9E-16 |
| 28 | 3.1E+05 | 2.1E-14 | 6.3E-07 | 8.4E-12 | 2.6E-12 | 1.8E-06 | 5.7E-05 | 1.5E-02 | 2.7E-03 | 6.3E-04 | 1.2E-13 | 1.3E-13 | 9.2E-21 | 7.0E-13 | 2.4E-14 | 7.7E-16 | 7.7E-16 |
| 29 | 3.1E+05 | 1.1E-08 | 1.7E-04 | 1.0E-04 | 1.4E-06 | 8.6E-08 | 1.6E-06 | 2.2E-03 | 3.9E-04 | 9.1E-05 | 1.8E-14 | 1.8E-14 | 1.3E-21 | 1.0E-13 | 3.5E-15 | 1.1E-16 | 1.1E-16 |
| 30 | 8.9E+04 | 9.5E-09 | 1.4E-08 | 3.1E-08 | 1.2E-06 | 3.8E-08 | 3.8E-05 | 7.4E-03 | 1.3E-03 | 3.0E-04 | 5.8E-14 | 6.0E-14 | 4.4E-21 | 3.3E-13 | 1.1E-14 | 3.7E-16 | 3.7E-16 |
| 31 | 3.4E+05 | 1.3E-08 | 1.9E-04 | 1.1E-04 | 1.5E-06 | 9.7E-08 | 1.8E-06 | 4.6E-02 | 7.9E-03 | 1.9E-03 | 3.6E-13 | 3.7E-13 | 2.7E-20 | 2.1E-12 | 7.1E-14 | 2.3E-15 | 2.3E-15 |
| 32 | 4.1E+04 | 4.4E-09 | 6.3E-09 | 6.3E-09 | 5.3E-07 | 1.8E-08 | 1.8E-05 | 2.7E-03 | 4.6E-04 | 1.1E-04 | 2.1E-14 | 2.2E-14 | 1.6E-21 | 1.2E-13 | 4.2E-15 | 1.3E-16 | 1.3E-16 |
| 33 | 8.8E+04 | 5.6E-10 | 5.8E-07 | 1.9E-11 | 6.9E-08 | 1.6E-06 | 6.2E-06 | 2.7E-03 | 4.7E-04 | 1.1E-04 | 2.1E-14 | 2.2E-14 | 1.6E-21 | 1.2E-13 | 4.2E-15 | 1.4E-16 | 1.4E-16 |
| 34 | 5.7E+04 | | 7.0E-08 | | | 1.9E-07 | 7.4E-07 | 3.8E-03 | 6.5E-04 | 1.5E-04 | 2.9E-14 | 3.1E-14 | 2.2E-21 | 1.7E-13 | 5.8E-15 | 1.9E-16 | 1.9E-16 |
| 35 | | | | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 1.1E-08 | 1.7E-04 | 1.0E-04 | 1.4E-06 | 8.7E-08 | 1.6E-06 | 5.4E-02 | 9.3E-03 | 2.2E-03 | 4.2E-13 | 4.4E-13 | 3.2E-20 | 2.4E-12 | 8.3E-14 | 2.7E-15 | 2.7E-15 |
| 37 | 3.2E+05 | 3.4E-08 | 4.9E-08 | 4.2E-06 | 4.2E-06 | 1.4E-07 | 1.4E-04 | 3.9E-03 | 6.8E-04 | 1.6E-04 | 3.1E-14 | 3.2E-14 | 2.3E-21 | 1.8E-13 | 6.1E-15 | 2.0E-16 | 2.0E-16 |
| 38 | 2.4E+05 | 1.6E-07 | 2.2E-07 | 2.0E-05 | 2.0E-05 | 6.2E-07 | 3.9E-04 | 6.3E-04 | 1.1E-04 | 2.6E-05 | 5.0E-15 | 5.2E-15 | 3.8E-22 | 2.9E-14 | 9.8E-16 | 3.2E-17 | 3.2E-17 |
| 39 | | | | | | | | | | | | | | | | | |
| 40 | 1.8E+05 | 1.2E-07 | 1.6E-07 | 1.4E-05 | 4.6E-07 | 2.8E-04 | 1.2E-04 | 1.2E-04 | 2.0E-05 | 4.7E-06 | 9.1E-16 | 9.5E-16 | 6.9E-23 | 5.2E-15 | 1.8E-16 | 5.8E-18 | 5.8E-18 |
| 41 | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 2.1E-14 | 6.2E-07 | 8.2E-12 | 2.5E-12 | 1.7E-06 | 5.6E-05 | 1.3E-02 | 2.2E-03 | 5.2E-04 | 9.9E-14 | 1.0E-13 | 7.6E-21 | 5.7E-13 | 2.0E-14 | 6.4E-16 | 6.4E-16 |
| 45 | 3.3E+05 | 2.3E-14 | 6.8E-07 | 9.0E-12 | 2.8E-12 | 1.9E-06 | 6.1E-05 | 1.8E-02 | 3.1E-03 | 7.2E-04 | 1.4E-13 | 1.5E-13 | 1.1E-20 | 8.1E-13 | 2.8E-14 | 8.9E-16 | 8.9E-16 |
| 46 | 3.5E+05 | 2.4E-14 | 7.1E-07 | 9.4E-12 | 2.9E-12 | 2.0E-06 | 6.4E-05 | 2.8E-02 | 4.9E-03 | 1.1E-03 | 2.2E-13 | 2.3E-13 | 1.7E-20 | 1.3E-12 | 4.4E-14 | 1.4E-15 | 1.4E-15 |
| 47 | 2.3E+05 | 1.6E-14 | 4.8E-07 | 6.3E-12 | 1.9E-12 | 1.3E-06 | 4.3E-05 | 1.4E-02 | 2.4E-03 | 5.7E-04 | 1.1E-13 | 1.2E-13 | 8.4E-21 | 6.4E-13 | 2.2E-14 | 7.1E-16 | 7.1E-16 |
| 48 | | | | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 1.6E-04 | 3.0E-09 | 8.3E-11 | 7.3E-09 | 2.3E-10 | 8.1E-08 | 3.0E-07 | 3.2E-07 | 1.2E-08 | 2.3E-18 | 2.4E-18 | 1.8E-25 | 1.4E-17 | 4.6E-19 | 1.5E-20 | 1.5E-20 |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 1.6E-04 | 1.2E-03 | 5.6E-04 | 4.9E-05 | 1.5E-05 | 1.3E-03 | 3.2E-01 | 5.4E-02 | 1.3E-02 | 2.5E-12 | 2.6E-12 | 1.9E-19 | 1.4E-11 | 4.9E-13 | 1.6E-14 | 1.6E-14 |

Table A-7: Total Liquid Phase Actinide Inventory (Alternate Approach)

| Tank | Total Supernate Volume, gal | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) |
|--------------|-----------------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 1.5E+05 | 1.5E-04 | 4.8E-05 | 1.8E-02 | 4.4E-03 | 1.1E-04 | 4.2E-05 | 3.0E-03 | 3.6E-03 | 1.4E+01 | 1.2E+00 | 3.8E-01 | 5.7E+00 | 1.4E-03 |
| 2 | 1.6E+05 | 1.6E-04 | 5.3E-05 | 2.0E-02 | 4.8E-03 | 1.2E-04 | 4.6E-05 | 3.3E-03 | 3.9E-03 | 1.6E+01 | 1.3E+00 | 4.2E-01 | 6.2E+00 | 1.5E-03 |
| 3 | 1.6E+05 | 1.6E-04 | 5.3E-05 | 2.0E-02 | 4.8E-03 | 1.2E-04 | 4.6E-05 | 3.3E-03 | 3.9E-03 | 1.6E+01 | 1.3E+00 | 4.2E-01 | 6.2E+00 | 1.5E-03 |
| 4 | 2.9E+05 | | | | | | | | | | | | | |
| 5 | 1.6E+03 | | 7.3E-07 | | 2.8E-04 | 1.3E-07 | | 2.2E-06 | 5.2E-05 | 1.0E-02 | 2.7E-02 | 3.9E-02 | 4.7E-02 | 4.9E-07 |
| 6 | 1.6E+03 | | 4.2E-07 | | 8.7E-05 | 4.5E-08 | | 1.2E-06 | 1.7E-05 | 7.0E-03 | 9.7E-03 | 1.5E-02 | 2.2E-02 | 9.6E-07 |
| 7 | 4.3E+05 | 4.2E-04 | 1.4E-04 | 5.2E-02 | 1.3E-02 | 3.0E-04 | 1.2E-04 | 8.6E-03 | 1.0E-02 | 4.1E+01 | 3.5E+00 | 1.1E+00 | 1.6E+01 | 3.9E-03 |
| 8 | 4.4E+05 | 7.1E-04 | 1.2E-05 | 2.0E-02 | 2.0E-03 | 4.9E-05 | 1.6E-04 | 7.5E-04 | 4.4E-03 | 7.6E+01 | 1.6E+00 | 8.1E-01 | 1.6E+01 | 1.1E-03 |
| 9 | 1.8E+05 | 9.8E-05 | 2.5E-05 | 2.0E-02 | 2.8E-03 | 7.8E-05 | 2.9E-04 | 9.1E-04 | 7.3E-03 | 2.5E+01 | 7.2E-01 | 3.0E-01 | 3.9E+00 | 2.0E-04 |
| 10 | 6.5E+04 | 3.7E-05 | 9.2E-06 | 7.5E-03 | 1.1E-03 | 2.9E-05 | 1.1E-04 | 3.4E-04 | 2.7E-03 | 9.5E+00 | 2.7E-01 | 1.1E-01 | 1.5E+00 | 7.4E-05 |
| 11 | 3.4E+05 | 6.4E-06 | 9.1E-04 | 9.1E-04 | 7.5E-04 | 1.4E-05 | 1.2E-04 | 2.6E-05 | 5.0E-04 | 6.4E+01 | 6.7E-01 | 4.2E-01 | 1.8E+01 | 8.9E-04 |
| 12 | 1.8E+05 | 3.3E-04 | 9.2E-03 | 8.6E-04 | 8.6E-04 | 1.6E-05 | 6.8E-05 | 1.6E-04 | 1.9E-03 | 3.2E+01 | 5.6E-01 | 3.1E-01 | 5.8E+00 | 4.4E-04 |
| 13 | 7.1E+05 | 4.0E-04 | 8.2E-02 | 1.2E-02 | 1.2E-02 | 3.2E-04 | 1.2E-03 | 3.7E-03 | 3.0E-02 | 1.0E+02 | 2.9E+00 | 1.2E+00 | 1.6E+01 | 8.0E-04 |
| 14 | 5.8E+04 | 1.4E-04 | 3.8E-05 | 4.9E-03 | 6.7E-04 | 5.4E-05 | 5.7E-05 | 1.0E-03 | 7.1E-03 | 3.0E+00 | 7.9E-01 | 2.5E-01 | 9.5E-01 | 4.6E-05 |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | | 5.7E-08 | 1.4E-03 | 9.5E-04 | 1.3E-05 | 1.3E-05 | 3.2E-04 | 1.5E-04 | 1.2E-01 | 2.3E-01 | 5.2E-02 | 4.7E-01 | 5.5E-04 |
| 19 | 2.2E+03 | | 1.2E-06 | 5.3E-03 | 2.7E-04 | 7.2E-06 | 1.6E-05 | 2.4E-04 | 6.0E-05 | 1.3E-01 | 1.7E-01 | 6.1E-02 | 3.1E-01 | 2.1E-03 |
| 21 | 1.3E+06 | 1.4E-06 | | 4.3E-02 | 4.6E-02 | 7.3E-04 | 8.5E-03 | 4.3E-03 | 3.8E-02 | 2.2E+02 | 3.4E+00 | 1.2E+00 | 1.9E+01 | 1.3E-04 |
| 22 | 1.2E+06 | | | 1.7E-01 | 6.0E-02 | 9.1E-04 | 9.8E-03 | 2.0E-02 | 3.6E-02 | 2.3E+02 | | | | |
| 23 | 1.3E+06 | | | | 3.1E+00 | 1.4E-03 | 3.2E-02 | 9.2E-03 | 3.4E-01 | 3.1E+01 | 7.6E+01 | 1.1E+02 | 1.7E+01 | |
| 24 | 1.0E+06 | | | | 1.7E-02 | 2.4E-04 | 3.3E-03 | 1.9E-05 | 1.8E-02 | 4.0E+02 | 1.7E+00 | 1.4E+00 | 2.7E-02 | 2.1E-02 |
| 25 | 8.3E+05 | | | | 1.5E-09 | 4.3E-04 | 5.6E-05 | 5.2E-02 | 1.3E-04 | 2.8E+02 | 4.3E+01 | 1.9E+00 | 1.7E-02 | 1.9E-03 |
| 26 | 1.2E+06 | | | | 6.4E-10 | 2.0E-09 | 7.8E-05 | 7.2E-02 | 1.9E-04 | 3.8E+02 | 6.0E+01 | 9.6E+00 | 1.7E-02 | 2.7E-03 |
| 27 | 4.3E+05 | | | | 7.4E-05 | 2.3E-04 | 2.9E-05 | 2.7E-02 | 7.0E-05 | 1.4E+02 | 2.3E+01 | 5.0E+00 | 8.8E+01 | 1.0E-03 |
| 28 | 5.0E+05 | | | | 2.8E-10 | 2.6E-04 | 3.4E-05 | 3.1E-02 | 8.1E-05 | 1.7E+02 | 2.6E+01 | 5.9E+00 | 1.0E+02 | 1.2E-03 |
| 29 | 5.3E+05 | 3.0E-04 | | 6.1E-02 | 8.7E-03 | 2.4E-04 | 8.9E-04 | 2.8E-03 | 2.2E-02 | 7.8E+01 | 2.2E+00 | 9.1E-01 | 1.2E+01 | 6.0E-04 |
| 30 | 1.1E+06 | | | | 2.9E-03 | 4.1E-05 | 6.5E-04 | 1.9E-05 | 1.2E-03 | 4.0E+02 | 3.7E+00 | 2.7E+00 | 1.4E+02 | 5.7E-03 |
| 31 | 4.6E+05 | | | | 7.5E-03 | 2.0E-04 | 7.7E-04 | 2.4E-03 | 1.9E-02 | 6.7E+01 | 1.9E+00 | 7.8E-01 | 1.0E+01 | 5.2E-04 |
| 32 | 7.5E+05 | | | | 2.0E-03 | 2.9E-05 | 4.6E-04 | 1.4E-05 | 8.4E-04 | 2.8E+02 | 2.6E+00 | 1.9E+00 | 9.8E+01 | 4.0E-03 |
| 33 | 7.8E+05 | | | | 1.3E-04 | 1.3E-03 | 7.1E-04 | 1.9E-01 | 5.8E-02 | 9.4E+01 | 5.1E+01 | 9.2E+00 | 2.0E+02 | 6.9E-04 |
| 34 | 9.7E+05 | | | | 2.8E-04 | 3.0E-04 | 1.6E-02 | 2.1E-02 | 1.6E-02 | 3.4E+00 | 3.4E+00 | 7.6E-01 | 1.2E+01 | 1.6E-04 |
| 35 | 1.1E+06 | | | | 3.0E-03 | 5.3E-05 | 9.0E-04 | 3.1E-05 | 1.1E-03 | 4.3E+02 | 3.7E+00 | 2.8E+00 | 1.6E+02 | 6.3E-03 |
| 36 | 5.5E+05 | | | | 8.8E-03 | 2.4E-04 | 9.1E-04 | 2.8E-03 | 2.3E-02 | 7.9E+01 | 2.2E+00 | 9.3E-01 | 1.2E+01 | 6.2E-04 |
| 37 | 4.4E+05 | | | | 7.1E-03 | 1.9E-04 | 7.3E-04 | 2.3E-03 | 1.8E-02 | 6.3E+01 | 1.8E+00 | 7.4E-01 | 9.7E+00 | 4.9E-04 |
| 38 | 4.9E+05 | | | | 8.3E-03 | 1.1E-04 | 1.6E-03 | 9.3E-06 | 8.8E-03 | 1.9E+02 | 7.9E-01 | 6.7E-01 | 1.3E+02 | 9.9E-03 |
| 39 | 9.3E+05 | | | | 1.0E-02 | 1.6E-04 | 1.7E-03 | 1.9E-05 | 6.1E-03 | 2.8E+02 | 3.7E+00 | 2.3E+00 | 2.0E+02 | 4.8E-03 |
| 40 | 5.4E+05 | | | | 5.0E-02 | 6.0E-04 | 4.5E-04 | 1.4E-02 | 3.1E-02 | 1.5E+02 | 1.2E+01 | 4.6E+00 | 7.2E+01 | 1.4E-02 |
| 41 | 5.7E+05 | 1.4E-03 | | 2.3E-01 | 9.7E-03 | 1.3E-04 | 1.8E-03 | 1.1E-05 | 1.0E-02 | 2.2E+02 | 9.3E-01 | 7.8E-01 | 1.5E+02 | 1.2E-02 |
| 42 | 1.2E+06 | | | | 7.2E-02 | 7.7E-04 | 2.0E-03 | 1.5E-02 | 2.8E-02 | 3.7E+02 | 1.8E+01 | 7.0E+00 | 1.0E+02 | 1.3E-02 |
| 43 | 1.1E+06 | | | | 1.9E-02 | 2.6E-04 | 3.7E-03 | 2.2E-05 | 2.0E-02 | 4.4E+02 | 1.8E+00 | 1.6E+00 | 3.0E+02 | 2.3E-02 |
| 44 | 5.6E+05 | | | | 9.8E-10 | 2.9E-04 | 3.7E-05 | 3.5E-02 | 9.0E-05 | 1.9E+02 | 2.9E+01 | 6.5E+00 | 1.1E+02 | 1.3E-03 |
| 45 | 4.8E+05 | | | | 2.7E-10 | 2.5E-04 | 3.2E-05 | 3.0E-02 | 7.8E-05 | 1.6E+02 | 2.5E+01 | 5.6E+00 | 9.8E+01 | 1.1E-03 |
| 46 | 4.5E+05 | | | | 7.7E-05 | 7.9E-10 | 2.3E-04 | 3.0E-05 | 2.8E-02 | 1.5E+02 | 2.3E+01 | 5.2E+00 | 9.1E+01 | 1.0E-03 |
| 47 | 6.3E+05 | | | | 3.5E-10 | 1.1E-09 | 4.2E-05 | 3.9E-02 | 1.0E-04 | 2.1E+02 | 3.3E+01 | 7.3E+00 | 1.3E+02 | 1.5E-03 |
| 48 | 2.3E+05 | | | | 4.1E-01 | 1.1E-03 | 7.8E-02 | 1.0E-03 | 3.2E-02 | 2.6E+02 | 1.5E-01 | 6.4E-04 | 5.2E-02 | |
| 49 | 2.6E+05 | | | | 1.2E-01 | 2.0E-04 | 1.9E-03 | 1.8E-03 | 1.7E-02 | 3.0E+01 | 8.3E-01 | 8.3E-01 | 5.4E+01 | 7.8E-02 |
| 50 | 9.8E+05 | | | | 2.0E-05 | 5.4E-01 | 1.2E-03 | 4.4E-03 | 4.0E-02 | 3.1E+01 | 7.6E+01 | 7.6E+01 | 6.2E+00 | 2.1E-02 |
| 51 | 4.0E+05 | | | | 9.7E-04 | 1.9E-04 | 6.0E-02 | 2.4E-04 | 1.4E-02 | 8.8E+01 | 3.4E+00 | 1.3E+00 | 2.9E+01 | 5.0E-03 |
| Phase Totals | 2.6E+07 | 1.1E-02 | 7.4E-02 | 2.3E+00 | 6.7E+00 | 1.5E-02 | 1.6E-01 | 6.4E-01 | 8.8E-01 | 6.5E+03 | 5.5E+02 | 2.9E+02 | 3.1E+03 | 2.5E-01 |

Table A-7: Total Liquid Phase Actinide Inventory (Alternate Approach), Continued

| Tank | Total Supernate Volume, gal | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Cm-242 (Ci) |
|--------------|-----------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 1.5E+05 | 1.3E+01 | 7.4E-03 | 7.1E+00 | 3.9E-03 | 9.9E-09 | 1.5E-04 | 2.4E-08 | 5.1E-05 | 1.2E-06 | 6.7E-08 | 6.2E-06 | 6.1E-03 |
| 2 | 1.6E+05 | 5.1E+00 | 3.0E-03 | 2.9E+00 | 1.6E-03 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.6E-05 | 1.3E-06 | 7.3E-08 | 6.8E-06 | 2.5E-03 |
| 3 | 1.6E+05 | 5.2E+00 | 3.1E-03 | 2.9E+00 | 1.6E-03 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.6E-05 | 1.3E-06 | 7.3E-08 | 6.8E-06 | 2.5E-03 |
| 4 | 2.9E+05 | 8.5E-01 | 5.0E-04 | 4.8E-01 | 2.6E-04 | | | | | | | | 4.1E-04 |
| 5 | 1.6E+03 | 2.9E-12 | 1.7E-15 | 1.6E-12 | 8.9E-16 | 6.3E-10 | | 2.9E-11 | 7.7E-08 | | 8.1E-11 | 2.2E-09 | 1.4E-15 |
| 6 | 1.6E+03 | 2.8E-12 | 1.6E-15 | 1.6E-12 | 8.4E-16 | 2.0E-10 | | 1.0E-11 | 2.4E-08 | | 2.9E-11 | 4.4E-09 | 1.3E-15 |
| 7 | 4.3E+05 | 1.4E+00 | 8.3E-04 | 7.9E-01 | 4.3E-04 | 2.9E-08 | 4.2E-04 | 6.9E-08 | 1.5E-04 | 3.5E-06 | 1.9E-07 | 1.8E-05 | 6.8E-04 |
| 8 | 4.4E+05 | 1.3E+00 | 7.5E-04 | 7.2E-01 | 3.9E-04 | 4.5E-09 | 7.1E-04 | 1.1E-08 | 5.7E-05 | 7.8E-07 | 3.1E-08 | 5.0E-06 | 6.2E-04 |
| 9 | 1.8E+05 | 5.4E+00 | 3.2E-03 | 3.0E+00 | 1.6E-03 | 6.4E-09 | 9.8E-05 | 1.8E-08 | 5.7E-05 | 7.8E-07 | 4.9E-08 | 9.0E-07 | 2.6E-03 |
| 10 | 6.5E+04 | 3.5E-01 | 2.1E-04 | 2.0E-01 | 1.1E-04 | 2.4E-09 | 3.7E-05 | 6.6E-09 | 2.1E-05 | 2.9E-07 | 1.8E-08 | 3.4E-07 | 1.7E-04 |
| 11 | 3.4E+05 | 1.0E-01 | 6.1E-05 | 5.9E-02 | 3.2E-05 | 1.7E-09 | 6.4E-06 | 3.2E-09 | 2.6E-06 | 2.1E-07 | 9.0E-09 | 4.1E-06 | 5.0E-05 |
| 12 | 1.8E+05 | 4.5E-01 | 2.6E-04 | 2.5E-01 | 1.4E-04 | 1.9E-09 | 3.3E-04 | 3.7E-09 | 2.6E-05 | 2.4E-07 | 1.0E-08 | 2.0E-06 | 2.2E-04 |
| 13 | 7.1E+05 | 3.8E+01 | 2.2E-02 | 2.1E+01 | 1.1E-02 | 2.6E-08 | 4.0E-04 | 7.2E-08 | 2.3E-04 | 3.2E-06 | 2.0E-07 | 3.7E-06 | 1.8E-02 |
| 14 | 5.8E+04 | 4.2E+00 | 2.4E-03 | 2.3E+00 | 1.3E-03 | 1.5E-09 | 1.4E-04 | 1.2E-08 | 1.4E-05 | 1.8E-07 | 3.4E-08 | 2.1E-07 | 2.0E-03 |
| 16 | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 3.4E-07 | 2.0E-10 | 1.9E-07 | 1.0E-10 | 2.1E-09 | | 2.9E-09 | 4.0E-06 | 2.6E-07 | 8.0E-09 | 2.5E-06 | 1.6E-10 |
| 19 | 2.2E+03 | 4.2E-06 | 2.4E-09 | 2.3E-06 | 1.3E-09 | 6.1E-10 | | 1.6E-09 | 1.5E-05 | 7.4E-08 | 4.6E-09 | 9.6E-06 | 2.0E-09 |
| 21 | 1.3E+06 | 1.3E+00 | 7.5E-04 | 7.1E-01 | 3.9E-04 | 1.0E-07 | 1.4E-06 | 1.7E-07 | 1.2E-04 | 1.3E-05 | 4.6E-07 | 5.9E-07 | 6.1E-04 |
| 22 | 1.2E+06 | 2.9E-02 | 1.7E-05 | 1.7E-02 | 9.0E-06 | 1.3E-07 | | 2.1E-07 | 4.7E-04 | 1.6E-05 | 5.8E-07 | | 1.4E-05 |
| 23 | 1.3E+06 | 9.3E-02 | 6.5E-04 | 6.2E-01 | 3.3E-04 | 7.0E-06 | | 3.3E-07 | 8.5E-04 | 8.5E-06 | 9.1E-07 | | 5.3E-04 |
| 24 | 1.0E+06 | 3.1E+01 | 1.8E-02 | 1.7E+01 | 9.4E-03 | 3.9E-08 | | 5.5E-08 | 4.8E-06 | 4.8E-06 | 1.5E-07 | 9.5E-05 | 1.5E-02 |
| 25 | 8.3E+05 | 5.6E+00 | 3.3E-03 | 3.2E+00 | 1.7E-03 | 3.3E-15 | | 9.8E-08 | 4.0E-13 | 4.0E-13 | 2.7E-07 | 8.8E-06 | 2.7E-03 |
| 26 | 1.2E+06 | 9.5E+00 | 5.6E-03 | 5.4E+00 | 2.9E-03 | 4.6E-15 | | 1.4E-07 | 1.8E-12 | 5.6E-13 | 3.8E-07 | 1.2E-05 | 4.6E-03 |
| 27 | 4.3E+05 | 7.0E+00 | 4.1E-03 | 3.9E+00 | 2.1E-03 | 1.7E-15 | | 5.1E-08 | 6.8E-13 | 2.1E-13 | 1.4E-07 | 4.6E-06 | 3.4E-03 |
| 28 | 5.0E+05 | 9.0E+00 | 5.3E-03 | 5.0E+00 | 2.7E-03 | 2.0E-15 | | 6.0E-08 | 7.9E-13 | 2.4E-13 | 1.7E-07 | 5.3E-06 | 4.3E-03 |
| 29 | 5.3E+05 | 1.4E+00 | 8.2E-04 | 7.8E-01 | 4.2E-04 | 2.0E-08 | 3.0E-04 | 5.4E-08 | 1.7E-04 | 2.4E-06 | 1.5E-07 | 2.8E-06 | 6.7E-04 |
| 30 | 1.1E+06 | 3.1E+01 | 1.8E-02 | 1.8E+01 | 9.5E-03 | 6.5E-09 | | 9.4E-09 | 7.9E-07 | 7.9E-07 | 2.6E-08 | 2.6E-05 | 1.5E-02 |
| 31 | 4.6E+05 | 2.2E+01 | 1.3E-02 | 1.2E+01 | 6.6E-03 | 1.7E-08 | 2.6E-04 | 4.6E-08 | 1.5E-04 | 2.1E-06 | 1.3E-07 | 2.4E-06 | 1.1E-02 |
| 32 | 7.5E+05 | 1.7E+01 | 1.0E-02 | 9.8E+00 | 5.3E-03 | 4.6E-09 | | 6.6E-09 | 5.6E-07 | 5.6E-07 | 1.8E-08 | 1.9E-05 | 8.4E-03 |
| 33 | 7.8E+05 | 8.6E+00 | 5.1E-03 | 4.8E+00 | 2.6E-03 | 2.9E-10 | | 3.0E-07 | 9.5E-12 | 3.5E-08 | 8.3E-07 | 3.1E-06 | 4.1E-03 |
| 34 | 9.7E+05 | 2.3E+01 | 1.3E-02 | 1.3E+01 | 6.9E-03 | | | 6.8E-08 | | | 1.9E-07 | 7.2E-07 | 1.1E-02 |
| 35 | 1.1E+06 | 1.5E+01 | 9.1E-03 | 8.7E+00 | 4.7E-03 | 6.9E-09 | | 1.2E-08 | | 8.4E-07 | 3.4E-08 | 2.9E-05 | 7.4E-03 |
| 36 | 5.5E+05 | 3.4E+01 | 2.0E-02 | 1.9E+01 | 1.0E-02 | 2.0E-08 | 3.1E-04 | 5.5E-08 | 1.8E-04 | 2.4E-06 | 1.5E-07 | 2.8E-06 | 1.6E-02 |
| 37 | 4.4E+05 | 1.9E+00 | 1.1E-03 | 1.1E+00 | 5.8E-04 | 1.6E-08 | 2.4E-04 | 4.4E-08 | 1.4E-04 | 1.9E-06 | 1.2E-07 | 2.3E-06 | 9.2E-04 |
| 38 | 4.9E+05 | 4.5E-01 | 2.7E-04 | 2.6E-01 | 1.4E-04 | 1.9E-08 | | 2.6E-08 | 2.3E-06 | 2.3E-06 | 7.2E-08 | 4.5E-05 | 2.2E-04 |
| 39 | 9.3E+05 | 1.2E+00 | 7.3E-04 | 7.0E-01 | 3.8E-04 | 2.3E-08 | | 3.6E-08 | 2.8E-06 | 2.8E-06 | 1.0E-07 | 2.2E-05 | 6.0E-04 |
| 40 | 5.4E+05 | 3.5E-01 | 2.1E-04 | 2.0E-01 | 1.1E-04 | 1.1E-07 | 1.4E-03 | 1.4E-07 | 6.6E-04 | 1.4E-05 | 3.8E-07 | 6.4E-05 | 1.7E-04 |
| 41 | 5.7E+05 | 1.3E-01 | 7.8E-05 | 7.5E-02 | 4.1E-05 | 2.2E-08 | 4.9E-03 | 3.1E-08 | 2.7E-06 | 2.7E-06 | 4.8E-07 | 5.7E-05 | 7.4E-03 |
| 42 | 1.2E+06 | 1.5E+01 | 9.0E-03 | 8.6E+00 | 4.7E-03 | 1.6E-07 | | 1.7E-07 | 6.8E-04 | 2.0E-05 | 4.8E-07 | 5.7E-05 | 7.4E-03 |
| 43 | 1.1E+06 | 8.6E-01 | 5.0E-04 | 4.8E-01 | 2.6E-04 | 4.3E-08 | | 6.0E-08 | 5.3E-06 | 5.3E-06 | 1.7E-07 | 1.0E-04 | 4.1E-04 |
| 44 | 5.6E+05 | 8.4E+00 | 4.9E-03 | 4.7E+00 | 2.5E-03 | 2.2E-15 | | 6.6E-08 | 8.7E-13 | 2.7E-13 | 1.8E-07 | 5.9E-06 | 4.0E-03 |
| 45 | 4.8E+05 | 9.3E+00 | 5.5E-03 | 5.2E+00 | 2.8E-03 | 1.9E-15 | | 5.7E-08 | 7.6E-13 | 2.3E-13 | 1.6E-07 | 5.1E-06 | 4.5E-03 |
| 46 | 4.5E+05 | 1.3E+01 | 7.7E-03 | 7.3E+00 | 4.0E-03 | 1.8E-15 | | 5.3E-08 | 7.0E-13 | 2.2E-13 | 1.5E-07 | 4.8E-06 | 6.3E-03 |
| 47 | 6.3E+05 | 1.4E+01 | 8.0E-03 | 7.7E+00 | 4.2E-03 | 2.5E-15 | | 7.5E-08 | 9.8E-13 | 3.0E-13 | 2.1E-07 | 6.7E-06 | 6.6E-03 |
| 48 | 2.3E+05 | 4.3E-02 | 2.5E-05 | 2.4E-02 | 1.3E-05 | 4.3E-06 | 1.8E-06 | 2.4E-07 | 1.2E-03 | 5.3E-04 | 6.7E-07 | | 2.1E-05 |
| 49 | 2.6E+05 | 2.1E+00 | 1.8E-04 | 6.1E-01 | 9.4E-05 | 4.7E-01 | 8.8E-06 | 2.4E-07 | 2.1E-05 | 2.2E-05 | 6.6E-07 | 2.4E-04 | 9.3E-04 |
| 50 | 9.8E+05 | 1.3E+00 | 6.9E-04 | 4.6E+00 | 4.8E-05 | 8.1E-02 | 2.0E-05 | 2.8E-07 | 1.5E-03 | 2.2E-04 | 7.7E-07 | 1.0E-03 | 5.7E-04 |
| 51 | 4.0E+05 | 1.5E+00 | 8.7E-04 | 8.3E-01 | 4.5E-04 | 4.5E-08 | 9.7E-04 | 7.0E-08 | 1.7E-04 | 5.6E-06 | 1.9E-07 | 2.3E-05 | 7.1E-04 |
| Phase Totals | 2.6E+07 | 3.6E+02 | 2.1E-01 | 2.1E+02 | 1.1E-01 | 5.5E-01 | 1.1E-02 | 3.5E-06 | 6.2E-03 | 1.7E-03 | 9.8E-06 | 1.9E-03 | 1.7E-01 |

Table A-8: Free Supernatant Phase Actinide Inventory (Alternate Approach)

| Tank | Free Supernatant Volume, gal | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) |
|--------------|------------------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 8.1E+02 | 7.9E-07 | 2.6E-07 | 9.8E-05 | 2.4E-05 | 5.7E-07 | 2.3E-07 | 1.6E-05 | 1.9E-05 | 7.8E-02 | 6.5E-03 | 2.1E-03 | 3.1E-02 | 7.4E-06 |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | | | | | | | | | | | | | |
| 5 | 2.7E+02 | | 1.2E-07 | | 4.7E-05 | 2.1E-08 | | 3.7E-07 | 8.8E-06 | 1.7E-03 | 4.5E-03 | 6.5E-03 | 7.9E-03 | 8.2E-08 |
| 6 | 1.7E+02 | | 4.5E-08 | | 9.3E-06 | 4.8E-09 | | 1.3E-07 | 1.8E-06 | 7.5E-04 | 1.0E-03 | 1.6E-03 | 2.4E-03 | 1.0E-07 |
| 7 | 4.1E+05 | | 1.3E-04 | | 1.2E-02 | 2.9E-04 | | 8.3E-03 | 9.9E-03 | 4.0E+01 | 3.3E+00 | 1.1E+00 | 1.6E+01 | 3.8E-03 |
| 8 | 4.2E+05 | | 6.9E-04 | | 1.9E-02 | 4.7E-05 | | 7.3E-04 | 4.3E-03 | 7.4E+01 | 1.6E+00 | 7.8E-01 | 1.5E+01 | 1.1E-03 |
| 9 | 1.3E+04 | | 1.8E-06 | | 2.1E-04 | 5.8E-06 | | 6.7E-05 | 5.4E-04 | 1.9E+00 | 5.4E-02 | 2.2E-02 | 2.9E-01 | 1.5E-05 |
| 10 | | | | | | | | | | | | | | |
| 11 | 3.3E+05 | | 6.3E-06 | | 7.4E-04 | 1.4E-05 | | 2.6E-05 | 4.9E-04 | 6.3E+01 | 6.5E-01 | 4.1E-01 | 1.7E+01 | 8.7E-04 |
| 12 | 1.7E+05 | | 3.1E-04 | | 8.2E-04 | 1.5E-05 | | 1.5E-04 | 1.8E-03 | 3.0E+01 | 5.3E-01 | 2.9E-01 | 5.5E+00 | 4.2E-04 |
| 13 | 5.2E+05 | | 2.9E-04 | | 8.4E-03 | 2.3E-04 | | 2.7E-03 | 2.2E-02 | 7.5E+01 | 2.1E+00 | 8.8E-01 | 1.2E+01 | 5.9E-04 |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | 8.7E+02 | | 4.7E-07 | | 1.0E-04 | 2.8E-06 | | 9.4E-05 | 2.4E-05 | 5.1E-02 | 6.8E-02 | 2.4E-02 | 1.2E-01 | 8.1E-04 |
| 21 | 1.3E+06 | | 1.3E-06 | | 4.5E-02 | 7.1E-04 | | 4.2E-03 | 3.7E-02 | 2.1E+02 | 3.3E+00 | 1.1E+00 | 1.8E+01 | 1.3E-04 |
| 22 | 1.1E+06 | | | | 5.7E-02 | 8.7E-04 | | 1.9E-02 | 3.5E-02 | 2.2E+02 | | | | |
| 23 | 1.2E+06 | | | | 2.9E+00 | 1.3E-03 | | 8.5E-03 | 3.2E-01 | 2.8E+01 | 7.1E+01 | 1.0E+02 | 1.6E+01 | |
| 24 | 1.0E+06 | | | | 1.7E-02 | 2.4E-04 | | 3.3E-02 | 1.9E-05 | 4.0E+02 | 1.7E+00 | 1.4E+00 | 2.7E+02 | 2.1E-02 |
| 25 | 6.8E+05 | | | | 1.2E-09 | 3.5E-04 | | 4.6E-05 | 4.2E-02 | 2.3E+02 | 3.5E+01 | 7.9E+00 | 1.4E+02 | 1.6E-03 |
| 26 | 9.6E+05 | | | | 1.7E-09 | 5.0E-04 | | 6.4E-05 | 6.0E-02 | 3.2E+02 | 5.0E+01 | 1.1E+01 | 1.9E+02 | 2.2E-03 |
| 27 | 8.3E+04 | | | | 1.5E-10 | 4.3E-05 | | 5.6E-06 | 5.2E-03 | 2.8E+01 | 4.3E+00 | 9.6E-01 | 1.7E+01 | 1.9E-04 |
| 28 | 2.0E+05 | | | | 3.4E-10 | 1.0E-04 | | 1.3E-05 | 1.2E-02 | 6.5E+01 | 1.0E+01 | 2.3E+00 | 4.0E+01 | 4.5E-04 |
| 29 | 2.3E+05 | | | | 3.7E-03 | 1.0E-04 | | 3.8E-04 | 9.5E-03 | 3.3E+01 | 9.4E-01 | 3.9E-01 | 5.1E+00 | 2.6E-04 |
| 30 | 9.7E+05 | | | | 2.6E-03 | 3.8E-05 | | 1.8E-05 | 1.1E-03 | 3.6E+02 | 3.4E+00 | 2.5E+00 | 1.3E+02 | 5.2E-03 |
| 31 | 1.2E+05 | | | | 1.9E-03 | 5.1E-05 | | 6.0E-04 | 4.8E-03 | 1.7E+01 | 4.8E-01 | 2.0E-01 | 2.6E+00 | 1.3E-04 |
| 32 | 6.3E+05 | | | | 1.7E-03 | 2.5E-05 | | 7.1E-04 | 2.4E+02 | 2.2E+00 | 2.2E+00 | 1.6E+00 | 8.3E+01 | 3.4E-03 |
| 33 | 6.4E+05 | | | | 2.7E-09 | 1.1E-05 | | 5.8E-04 | 4.8E-02 | 7.7E+01 | 4.2E+00 | 7.5E+00 | 1.6E+02 | 5.6E-04 |
| 34 | 9.0E+05 | | | | 1.0E-04 | 2.8E-04 | | 1.5E-01 | 1.5E-02 | 3.2E+00 | 3.2E+00 | 7.1E-01 | 1.1E+01 | 1.5E-04 |
| 35 | 1.1E+06 | | | | 2.9E-03 | 5.0E-05 | | 3.0E-05 | 1.0E-03 | 4.1E+02 | 3.5E+00 | 2.7E+00 | 1.5E+02 | 6.0E-03 |
| 36 | 2.3E+05 | | | | 3.8E-03 | 1.0E-04 | | 1.2E-03 | 9.8E-03 | 3.4E+01 | 9.7E-01 | 4.0E-01 | 5.2E+00 | 2.7E-04 |
| 37 | 1.2E+05 | | | | 1.9E-03 | 5.1E-05 | | 6.0E-04 | 4.8E-03 | 1.7E+01 | 4.7E-01 | 2.0E-01 | 2.6E+00 | 1.3E-04 |
| 38 | 2.4E+05 | | | | 4.1E-03 | 5.7E-05 | | 4.6E-06 | 4.4E-03 | 9.6E+01 | 4.0E-01 | 3.4E-01 | 6.4E+01 | 4.9E-03 |
| 39 | 8.4E+05 | | | | 9.1E-03 | 1.4E-04 | | 1.6E-03 | 5.5E-03 | 2.5E+02 | 3.3E+00 | 2.0E+00 | 1.8E+02 | 4.4E-03 |
| 40 | 1.0E+05 | | | | 9.7E-03 | 1.1E-04 | | 8.6E-05 | 6.0E-03 | 2.8E+01 | 2.4E+00 | 8.8E-01 | 1.4E+01 | 2.7E-03 |
| 41 | 3.9E+05 | | | | 6.6E-03 | 9.2E-05 | | 1.3E-03 | 7.1E-03 | 1.5E+02 | 6.4E-01 | 5.4E-01 | 1.0E+02 | 7.9E-03 |
| 42 | 1.2E+06 | | | | 7.1E-02 | 2.3E-04 | | 1.8E-02 | 2.8E-02 | 3.6E+02 | 1.8E+00 | 1.3E+00 | 2.5E+02 | 1.9E-02 |
| 43 | 9.7E+05 | | | | 1.6E-02 | 3.3E-04 | | 1.5E-05 | 1.6E+00 | 3.8E+02 | 1.6E+00 | 1.3E+00 | 2.5E+02 | 1.9E-02 |
| 44 | 2.5E+05 | | | | 4.5E-10 | 1.3E-04 | | 1.7E-05 | 4.1E-05 | 8.5E+01 | 1.3E+01 | 3.0E+00 | 5.2E+01 | 5.9E-04 |
| 45 | 1.5E+05 | | | | 2.7E-10 | 7.9E-05 | | 1.0E-05 | 2.5E-05 | 5.1E+01 | 8.0E+00 | 1.8E+00 | 3.1E+01 | 3.5E-04 |
| 46 | 1.0E+05 | | | | 5.6E-11 | 5.3E-05 | | 6.8E-06 | 1.6E-05 | 3.4E+01 | 5.3E+00 | 1.2E+00 | 2.1E+01 | 2.4E-04 |
| 47 | 2.2E+05 | | | | 3.9E-10 | 1.2E-04 | | 1.5E-05 | 1.4E-02 | 7.4E+01 | 1.2E+01 | 2.6E+00 | 4.5E+01 | 5.2E-04 |
| 48 | 2.4E+05 | | | | 4.4E-01 | 1.1E-03 | | 8.4E-02 | 3.5E-02 | 2.8E+02 | 1.6E-01 | 6.9E-04 | 5.6E-02 | |
| 49 | 2.6E+05 | | | | 1.2E-01 | 2.0E-04 | | 1.9E-03 | 1.7E-02 | 3.0E+01 | 8.3E-01 | 8.3E-01 | 5.4E+01 | 7.8E-02 |
| 50 | 9.8E+05 | | | | 7.9E-01 | 1.2E-03 | | 6.4E-03 | 4.0E-02 | 3.1E+01 | 7.6E+01 | 7.6E+01 | 6.2E+00 | 2.1E-02 |
| 51 | 2.6E+05 | | | | 3.9E-02 | 2.0E-04 | | 1.6E-04 | 8.7E-03 | 5.7E+01 | 2.2E+00 | 8.2E-01 | 1.9E+01 | 3.2E-03 |
| Phase Totals | 2.0E+07 | | | | 1.8E+00 | 1.1E-02 | | 1.6E-01 | 7.1E-01 | 4.9E+03 | 3.8E+02 | 2.5E+02 | 2.2E+03 | 2.1E-01 |

Table A-8: Free Supernatant Phase Actinide Inventory (Alternate Approach), Continued

| Tank | Free Supernatant Volume, gal | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Ra-226 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Cm-242 (Ci) | |
|--------------|------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
| 1 | 8.1E+02 | 6.9E-02 | 4.0E-05 | 3.9E-02 | 2.1E-05 | 5.4E-11 | 7.9E-07 | 1.3E-10 | 2.8E-07 | 6.6E-09 | 3.6E-10 | 3.4E-08 | 3.3E-05 |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | 2.8E+05 | 8.3E-01 | 4.9E-04 | 4.7E-01 | 2.5E-04 | | | 4.9E-12 | 1.3E-08 | 1.4E-11 | 3.8E-10 | 4.0E-04 | |
| 5 | 2.7E+02 | 4.9E-13 | 2.9E-16 | 2.7E-13 | 1.5E-16 | 1.0E-10 | | 1.1E-12 | 2.6E-09 | 3.1E-12 | 4.7E-10 | 2.4E-16 | |
| 6 | 1.7E+02 | 3.0E-13 | 1.7E-16 | 1.7E-13 | 9.0E-17 | 2.1E-11 | | 1.1E-12 | 2.6E-09 | 3.1E-12 | 4.7E-10 | 1.4E-16 | |
| 7 | 4.1E+05 | 1.4E+00 | 8.0E-04 | 7.6E-01 | 4.1E-04 | 2.8E-08 | 4.1E-04 | 6.7E-08 | 1.4E-04 | 1.8E-07 | 1.7E-05 | 6.5E-04 | |
| 8 | 4.2E+05 | 1.2E+00 | 7.3E-04 | 7.0E-01 | 3.8E-04 | 4.4E-09 | 6.9E-04 | 1.1E-08 | 5.4E-07 | 3.0E-08 | 4.9E-06 | 6.0E-04 | |
| 9 | 1.3E+04 | 4.0E-01 | 2.4E-04 | 2.2E-01 | 1.2E-04 | 4.7E-10 | 7.3E-06 | 1.3E-09 | 4.2E-06 | 3.7E-09 | 6.7E-08 | 1.9E-04 | |
| 10 | | | | | | | | | | | | | |
| 11 | 3.3E+05 | 1.0E-01 | 6.0E-05 | 5.8E-02 | 3.1E-05 | 1.7E-09 | 6.3E-06 | 3.2E-09 | 2.6E-06 | 8.8E-09 | 4.0E-06 | 4.9E-05 | |
| 12 | 1.7E+05 | 4.3E-01 | 2.5E-04 | 2.4E-01 | 1.3E-04 | 1.8E-09 | 3.1E-04 | 3.5E-09 | 2.5E-05 | 9.7E-09 | 1.9E-06 | 2.1E-04 | |
| 13 | 5.2E+05 | 2.7E+01 | 1.6E-02 | 1.5E+01 | 8.3E-03 | 1.9E-08 | 2.9E-04 | 5.2E-08 | 1.7E-04 | 2.3E-06 | 2.7E-06 | 1.3E-02 | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | 8.7E+02 | 1.6E-06 | 9.5E-10 | 9.1E-07 | 4.9E-10 | 2.4E-10 | 1.3E-06 | 6.4E-10 | 5.8E-06 | 2.9E-08 | 1.8E-09 | 7.8E-10 | |
| 20 | 1.3E+06 | 1.2E+00 | 7.3E-04 | 6.9E-01 | 3.8E-04 | 1.0E-07 | | 1.6E-07 | 1.2E-04 | 1.2E-05 | 4.5E-07 | 6.0E-04 | |
| 21 | 1.1E+06 | 2.8E-02 | 1.7E-05 | 1.6E-02 | 8.6E-06 | 1.3E-07 | | 2.0E-07 | 1.6E-05 | 1.6E-05 | 5.5E-07 | 1.4E-05 | |
| 22 | 1.2E+06 | 8.7E-02 | 6.0E-04 | 5.7E-01 | 3.1E-04 | 6.5E-06 | | 3.0E-07 | 7.9E-04 | 8.4E-07 | 9.4E-05 | 4.9E-04 | |
| 23 | 1.0E+06 | 3.1E+01 | 1.8E-02 | 1.7E+01 | 9.4E-03 | 3.9E-08 | | 5.4E-08 | 4.8E-06 | 1.5E-07 | 9.4E-05 | 1.5E-02 | |
| 24 | 6.8E+05 | 4.6E+00 | 2.7E-03 | 2.6E+00 | 1.4E-03 | 2.7E-15 | | 8.0E-08 | 1.1E-12 | 2.2E-07 | 7.2E-06 | 2.2E-03 | |
| 25 | 9.6E+05 | 7.9E+00 | 4.6E-03 | 4.4E+00 | 2.4E-03 | 3.8E-15 | | 1.1E-07 | 1.5E-12 | 3.1E-07 | 1.0E-05 | 3.8E-03 | |
| 26 | 8.3E+04 | 1.3E+00 | 7.9E-04 | 7.5E-01 | 4.1E-04 | 3.3E-16 | | 9.8E-09 | 1.3E-13 | 2.7E-08 | 8.8E-07 | 6.4E-04 | |
| 27 | 2.0E+05 | 3.5E+00 | 2.0E-03 | 2.0E+00 | 1.1E-03 | 7.7E-16 | | 2.3E-08 | 3.1E-13 | 6.4E-08 | 2.1E-06 | 1.7E-03 | |
| 28 | 2.3E+05 | 5.9E-01 | 3.5E-04 | 3.3E-01 | 1.8E-04 | 8.3E-09 | 1.3E-04 | 2.3E-08 | 7.4E-05 | 6.4E-08 | 1.2E-06 | 2.9E-04 | |
| 29 | 9.7E+05 | 2.9E+01 | 1.7E-02 | 1.6E+01 | 8.7E-03 | 5.9E-09 | | 8.6E-09 | 3.8E-05 | 2.4E-08 | 2.4E-05 | 1.4E-02 | |
| 30 | 1.2E+05 | 5.5E+00 | 3.2E-03 | 3.1E+00 | 1.7E-03 | 4.2E-09 | 6.5E-05 | 1.2E-08 | 3.8E-05 | 5.2E-07 | 6.0E-07 | 2.7E-03 | |
| 31 | 6.3E+05 | 1.5E+01 | 8.7E-03 | 8.3E+00 | 4.5E-03 | 3.9E-09 | | 5.6E-09 | 4.8E-07 | 1.6E-08 | 1.6E-05 | 7.1E-03 | |
| 32 | 6.4E+05 | 7.1E+00 | 4.1E-03 | 4.0E+00 | 2.1E-03 | 2.4E-10 | | 2.4E-07 | 7.8E-12 | 2.9E-08 | 2.6E-06 | 3.4E-03 | |
| 33 | 9.0E+05 | 2.1E+01 | 1.2E-02 | 1.2E+01 | 6.4E-03 | | | 6.4E-08 | | | 1.8E-07 | 1.0E-02 | |
| 34 | 1.1E+06 | 1.5E+01 | 8.6E-03 | 8.2E+00 | 4.4E-03 | 6.5E-09 | | 1.1E-08 | | 7.9E-07 | 3.2E-08 | 7.0E-03 | |
| 35 | 2.3E+05 | 1.5E+01 | 8.6E-03 | 8.2E+00 | 4.4E-03 | 8.6E-09 | 1.3E-04 | 2.4E-08 | 7.7E-05 | 1.0E-06 | 6.6E-08 | 7.0E-03 | |
| 36 | 1.2E+05 | 5.0E-01 | 3.0E-04 | 2.8E-01 | 1.5E-04 | 4.2E-09 | 6.5E-05 | 1.2E-08 | 3.8E-05 | 5.1E-07 | 3.2E-08 | 2.4E-04 | |
| 37 | 2.4E+05 | 2.3E-01 | 1.3E-04 | 1.3E-01 | 6.9E-05 | 9.4E-09 | | 1.3E-08 | | 3.6E-08 | 6.0E-07 | 1.1E-04 | |
| 38 | 8.4E+05 | 1.1E+00 | 6.6E-04 | 6.3E-01 | 3.4E-04 | 2.0E-08 | | 3.3E-08 | | 9.0E-08 | 2.3E-05 | 5.4E-04 | |
| 39 | 1.0E+05 | 6.7E-02 | 4.0E-05 | 3.8E-02 | 2.0E-05 | 2.2E-08 | 2.6E-04 | 2.6E-08 | 1.3E-04 | 2.7E-06 | 1.2E-05 | 3.2E-05 | |
| 40 | 3.9E+05 | 9.1E-02 | 5.4E-05 | 5.1E-02 | 2.8E-05 | 1.5E-07 | | 2.1E-08 | | 1.8E-06 | 5.8E-08 | 4.4E-05 | |
| 41 | 1.2E+06 | 1.5E+01 | 8.9E-03 | 8.5E+00 | 4.6E-03 | 1.6E-07 | 4.8E-03 | 1.7E-07 | 6.7E-04 | 2.0E-05 | 4.8E-07 | 7.3E-03 | |
| 42 | 9.7E+05 | 7.3E-01 | 4.3E-04 | 4.1E-01 | 2.2E-04 | 3.7E-08 | | 5.1E-08 | 4.5E-06 | 1.4E-07 | 8.9E-05 | 3.5E-04 | |
| 43 | 2.5E+05 | 3.8E+00 | 2.2E-03 | 2.1E+00 | 1.2E-03 | 1.0E-15 | | 3.0E-08 | 4.0E-13 | 8.4E-08 | 2.7E-06 | 1.8E-03 | |
| 44 | 1.5E+05 | 2.9E+00 | 1.7E-03 | 1.6E+00 | 8.9E-04 | 6.0E-16 | | 1.8E-08 | 2.4E-13 | 5.0E-08 | 1.6E-06 | 1.4E-03 | |
| 45 | 1.0E+05 | 3.0E+00 | 1.7E-03 | 1.7E+00 | 9.0E-04 | 4.0E-16 | | 1.2E-08 | 1.6E-13 | 3.4E-08 | 1.1E-06 | 1.4E-03 | |
| 46 | 2.2E+05 | 4.9E+00 | 2.9E-03 | 2.7E+00 | 1.5E-03 | 8.8E-16 | | 2.6E-08 | 3.5E-13 | 7.3E-08 | 2.4E-06 | 2.3E-03 | |
| 47 | 2.4E+05 | 4.6E-02 | 2.7E-05 | 2.6E-02 | 1.4E-05 | 4.6E-06 | 2.0E-06 | 2.6E-07 | 1.3E-03 | 5.7E-04 | 7.2E-07 | 2.2E-05 | |
| 48 | 2.6E+05 | 2.1E+00 | 1.8E-04 | 6.1E-01 | 9.4E-05 | 4.7E-01 | 8.8E-06 | 2.4E-07 | 1.5E-03 | 2.1E-05 | 6.6E-07 | 9.3E-04 | |
| 49 | 9.8E+05 | 1.3E+00 | 6.9E-04 | 4.6E+00 | 4.8E-05 | 8.1E-02 | 2.0E-05 | 2.8E-07 | 1.5E-03 | 2.2E-04 | 7.7E-07 | 5.7E-04 | |
| 50 | 2.6E+05 | 9.5E-01 | 5.6E-04 | 5.3E-01 | 2.9E-04 | 2.9E-08 | 6.2E-04 | 4.5E-08 | 1.1E-04 | 3.6E-06 | 1.3E-07 | 4.6E-04 | |
| 51 | | | | | | | | | | | | | |
| Phase Totals | 2.0E+07 | 2.3E+02 | 1.3E-01 | 1.3E+02 | 6.8E-02 | 5.5E-01 | 7.8E-03 | 2.7E-06 | 4.9E-03 | 1.7E-03 | 7.5E-06 | 1.7E-03 | 1.1E-01 |

Table A-9: Sludge Interstitial Liquid Phase Actinide Inventory (Alternate Approach)

| Tank | Sludge IL Volume, gal | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) |
|--------------|-----------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 4.9E+03 | 4.8E-06 | 1.6E-06 | 5.9E-06 | 1.5E-04 | 3.5E-06 | 1.4E-06 | 9.8E-05 | 1.2E-04 | 4.7E-01 | 3.9E-02 | 1.3E-02 | 1.9E-01 | 4.5E-05 |
| 2 | 2.8E+03 | 2.8E-06 | 9.2E-07 | 3.4E-04 | 8.4E-05 | 2.0E-06 | 8.1E-07 | 5.7E-05 | 6.8E-05 | 2.7E-01 | 2.3E-02 | 7.2E-03 | 1.1E-01 | 2.6E-05 |
| 3 | 2.8E+03 | 2.8E-06 | 9.2E-07 | 3.4E-04 | 8.4E-05 | 2.0E-06 | 8.1E-07 | 5.7E-05 | 6.8E-05 | 2.7E-01 | 2.3E-02 | 7.2E-03 | 1.1E-01 | 2.6E-05 |
| 4 | 5.6E+03 | | | | | | | | | | | | | |
| 5 | 1.3E+03 | | 6.1E-07 | | 2.3E-04 | 1.1E-07 | | 1.8E-06 | 4.3E-05 | 8.3E-03 | 2.2E-02 | 3.2E-02 | 3.9E-02 | 4.1E-07 |
| 6 | 1.4E+03 | | 3.7E-07 | | 7.8E-05 | 4.0E-08 | | 1.1E-06 | 1.5E-05 | 6.3E-03 | 8.7E-03 | 1.4E-02 | 2.0E-02 | 8.6E-07 |
| 7 | 1.8E+04 | | 5.7E-06 | | 5.2E-04 | 1.2E-05 | | 3.5E-04 | 4.2E-04 | 1.7E+00 | 1.4E-01 | 4.5E-02 | 6.7E-01 | 1.6E-04 |
| 8 | 1.2E+04 | 1.7E-05 | 3.3E-07 | 2.1E-03 | 5.6E-05 | 1.4E-06 | 5.0E-06 | 2.1E-05 | 1.3E-04 | 2.2E+00 | 4.6E-02 | 2.3E-02 | 4.4E-01 | 3.1E-05 |
| 9 | 1.9E+03 | 1.1E-06 | 2.7E-07 | 2.2E-04 | 3.1E-05 | 8.4E-07 | 3.2E-06 | 9.8E-06 | 7.9E-05 | 2.8E-01 | 7.8E-03 | 3.2E-03 | 4.2E-02 | 2.1E-06 |
| 10 | 1.9E+03 | 1.1E-06 | 2.7E-07 | 2.2E-04 | 3.1E-05 | 8.4E-07 | 3.2E-06 | 9.8E-06 | 7.9E-05 | 2.8E-01 | 7.8E-03 | 3.2E-03 | 4.2E-02 | 2.1E-06 |
| 11 | 6.7E+03 | 1.3E-07 | 1.8E-05 | 1.8E-05 | 1.5E-05 | 2.8E-07 | 3.7E-06 | 5.2E-07 | 9.7E-06 | 1.3E+00 | 1.3E-02 | 8.2E-03 | 3.5E-01 | 1.8E-05 |
| 12 | 9.6E+03 | 1.8E-05 | 1.7E-07 | 5.0E-04 | 4.6E-05 | 8.7E-07 | 2.3E-06 | 8.8E-06 | 1.0E-04 | 1.7E+00 | 3.0E-02 | 1.7E-02 | 3.1E-01 | 2.4E-05 |
| 13 | 1.9E+05 | 1.1E-04 | 2.7E-05 | 2.2E-02 | 3.1E-03 | 8.6E-05 | 3.2E-04 | 1.0E-03 | 8.1E-03 | 2.8E+01 | 8.0E-01 | 3.3E-01 | 4.3E+00 | 2.2E-04 |
| 14 | 2.0E+04 | 4.6E-05 | 1.3E-05 | 1.6E-03 | 2.2E-04 | 1.8E-05 | 1.9E-05 | 3.4E-04 | 2.4E-03 | 1.0E+00 | 2.6E-01 | 8.5E-02 | 3.2E-01 | 1.6E-05 |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | | 5.7E-08 | 1.4E-03 | 9.5E-04 | 1.3E-05 | 1.3E-05 | 3.2E-04 | 1.5E-04 | 1.2E-01 | 2.3E-01 | 5.2E-02 | 4.7E-01 | 5.5E-04 |
| 19 | 1.4E+03 | | 7.4E-07 | 3.2E-03 | 1.7E-04 | 4.4E-06 | 1.0E-05 | 1.5E-04 | 3.7E-05 | 8.0E-02 | 1.1E-01 | 3.7E-02 | 1.9E-01 | 1.3E-03 |
| 21 | 3.7E+04 | 4.0E-08 | | 1.3E-03 | 1.3E-03 | 2.1E-05 | 2.4E-04 | 1.3E-04 | 1.1E-03 | 6.3E+00 | 9.8E-02 | 3.3E-02 | 5.5E-01 | 3.7E-06 |
| 22 | 5.0E+04 | | | 7.0E-03 | 2.5E-03 | 3.9E-05 | 4.1E-04 | 8.6E-04 | 1.5E-03 | 9.9E+00 | | | | |
| 23 | 8.8E+04 | | | | 2.2E-01 | 1.0E-04 | 2.2E-03 | 6.5E-04 | 2.4E-02 | 2.1E+00 | 5.4E+00 | 7.8E+00 | 1.2E+00 | 5.0E-05 |
| 24 | 2.5E+03 | | | 4.2E-05 | 4.2E-05 | 5.8E-07 | 8.0E-06 | 4.7E-08 | 4.5E-05 | 9.7E-01 | 4.0E-03 | 3.4E-03 | 6.5E-01 | 5.0E-05 |
| 25 | | | | | | | | | | | | | | |
| 26 | 2.0E+05 | | 3.5E-05 | 1.1E-10 | 3.6E-10 | 1.1E-04 | 1.4E-05 | 1.3E-02 | 3.3E-05 | 6.7E+01 | 1.1E+01 | 2.4E+00 | 4.1E+01 | 4.7E-04 |
| 27 | 2.7E+03 | | 4.6E-07 | 1.5E-12 | 4.7E-12 | 1.4E-06 | 1.8E-07 | 1.7E-04 | 4.3E-07 | 9.0E-01 | 1.4E-01 | 3.1E-02 | 5.5E-01 | 6.3E-06 |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | 4.3E+02 | | | 1.2E-06 | 1.2E-06 | 1.7E-08 | 2.6E-07 | 7.9E-09 | 4.9E-07 | 1.6E-01 | 1.5E-03 | 1.1E-03 | 5.7E-02 | 2.3E-06 |
| 31 | | | | | | | | | | | | | | |
| 32 | 7.3E+04 | | | 2.0E-04 | 2.0E-04 | 2.8E-06 | 4.4E-05 | 1.3E-06 | 8.2E-05 | 2.7E+01 | 2.5E-01 | 1.9E-01 | 9.5E+00 | 3.9E-04 |
| 33 | 5.2E+04 | | | 8.4E-06 | 8.4E-06 | 8.6E-05 | 4.7E-05 | 1.2E-02 | 3.9E-03 | 6.2E+00 | 3.4E+00 | 6.1E-01 | 1.3E+01 | 4.5E-05 |
| 34 | 8.8E+03 | | | 2.5E-06 | 2.5E-06 | 2.7E-06 | 2.7E-06 | 1.9E-04 | 1.5E-04 | 3.1E-02 | 3.1E-02 | 7.0E-03 | 1.1E-01 | 1.4E-06 |
| 35 | 6.2E+04 | | | 1.7E-04 | 1.7E-04 | 2.9E-06 | 4.9E-05 | 1.7E-06 | 6.0E-05 | 2.4E+01 | 2.0E-01 | 1.5E-01 | 8.9E+00 | 3.4E-04 |
| 36 | 1.3E+02 | 7.3E-08 | | 2.1E-06 | 2.1E-06 | 5.7E-08 | 2.2E-07 | 6.7E-07 | 5.4E-06 | 1.9E-02 | 5.4E-04 | 2.2E-04 | 2.9E-03 | 1.5E-07 |
| 37 | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | |
| 39 | 9.3E+04 | | | 1.0E-03 | 1.0E-03 | 1.6E-05 | 1.7E-04 | 1.9E-06 | 6.1E-04 | 2.8E+01 | 3.6E-01 | 2.3E-01 | 2.0E+01 | 4.8E-04 |
| 40 | 4.4E+05 | 1.1E-03 | | 4.1E-02 | 4.1E-02 | 4.8E-04 | 3.6E-04 | 1.1E-02 | 2.5E-02 | 1.2E+02 | 1.0E+01 | 3.7E+00 | 5.8E+01 | 1.1E-02 |
| 41 | 1.9E+03 | | | 3.2E-05 | 3.2E-05 | 4.4E-07 | 6.0E-06 | 3.5E-08 | 3.4E-05 | 7.3E-01 | 3.0E-03 | 2.6E-03 | 4.9E-01 | 3.8E-05 |
| 42 | 1.4E+04 | 5.8E-05 | | 8.5E-04 | 8.5E-04 | 9.1E-06 | 2.4E-05 | 1.8E-04 | 3.3E-04 | 4.4E+00 | 2.2E-01 | 8.3E-02 | 1.2E+00 | 1.5E-04 |
| 43 | 1.7E+05 | | | 2.9E-03 | 2.9E-03 | 3.9E-05 | 5.5E-04 | 3.2E-06 | 3.1E-03 | 6.6E+01 | 2.7E-01 | 2.3E-01 | 4.4E+01 | 3.4E-03 |
| 44 | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | |
| 47 | 1.7E+05 | | | 3.0E-05 | 3.0E-10 | 9.0E-05 | 1.2E-05 | 1.1E-02 | 2.8E-05 | 5.8E+01 | 9.0E+00 | 2.0E+00 | 3.5E+01 | 4.0E-04 |
| 48 | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | |
| 51 | 1.4E+05 | 3.5E-04 | 7.0E-05 | 2.2E-02 | 7.2E-03 | 1.1E-04 | 8.7E-05 | 3.3E-03 | 4.8E-03 | 3.2E+01 | 1.2E+00 | 4.6E-01 | 1.0E+01 | 1.8E-03 |
| Phase Totals | 1.9E+06 | 1.7E-03 | 3.9E-04 | 2.5E-01 | 2.8E-01 | 1.3E-03 | 4.6E-03 | 5.5E-02 | 7.7E-02 | 4.9E+02 | 4.3E+01 | 1.9E+01 | 2.5E+02 | 2.1E-02 |

Table A-9: Sludge Interstitial Liquid Phase Actinide Inventory (Alternate Approach), Continued

| Tank | Sludge IL Volume, gal | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Cm-242 (Ci) |
|--------------|-----------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 4.9E+03 | 4.2E-01 | 2.5E-04 | 2.3E-01 | 1.3E-04 | 3.3E-10 | 4.8E-06 | 7.9E-10 | 1.7E-06 | 4.0E-08 | 2.2E-09 | 2.0E-07 | 2.0E-04 |
| 2 | 2.8E+03 | 8.9E-02 | 5.2E-05 | 5.0E-02 | 2.7E-05 | 1.9E-10 | 2.8E-06 | 4.6E-10 | 9.7E-07 | 2.3E-08 | 1.3E-09 | 1.2E-07 | 4.3E-05 |
| 3 | 2.8E+03 | 9.1E-02 | 5.3E-05 | 5.1E-02 | 2.8E-05 | 1.9E-10 | 2.8E-06 | 4.6E-10 | 9.7E-07 | 2.3E-08 | 1.3E-09 | 1.2E-07 | 4.4E-05 |
| 4 | 5.6E+03 | 1.7E-02 | 9.8E-06 | 9.3E-03 | 5.1E-06 | | | | | | | | 8.0E-06 |
| 5 | 1.3E+03 | 2.4E-12 | 1.4E-15 | 1.4E-12 | 7.4E-16 | 5.2E-10 | | 2.4E-11 | | 6.4E-08 | 6.8E-11 | 1.9E-09 | 1.2E-15 |
| 6 | 1.4E+03 | 2.5E-12 | 1.5E-15 | 1.4E-12 | 7.5E-16 | 1.7E-10 | | 9.2E-12 | | 2.1E-08 | 2.6E-11 | 3.9E-09 | 1.2E-15 |
| 7 | 1.8E+04 | 5.7E-02 | 3.4E-05 | 3.2E-02 | 1.7E-05 | 1.2E-09 | 1.7E-05 | 2.8E-09 | 6.0E-06 | 1.4E-07 | 7.3E-07 | 7.3E-07 | 2.8E-05 |
| 8 | 1.2E+04 | 3.6E-02 | 2.1E-05 | 2.0E-02 | 1.1E-05 | 1.3E-10 | 2.0E-05 | 3.1E-10 | 1.6E-06 | 1.6E-08 | 8.7E-10 | 1.4E-07 | 1.7E-05 |
| 9 | 1.9E+03 | 5.8E-02 | 3.4E-05 | 3.3E-02 | 1.8E-05 | 6.9E-11 | 1.1E-06 | 1.9E-10 | 6.2E-07 | 8.5E-09 | 5.3E-10 | 9.8E-09 | 2.8E-05 |
| 10 | 1.9E+03 | 1.0E-02 | 6.0E-06 | 5.7E-03 | 3.1E-06 | 6.9E-11 | 1.1E-06 | 1.9E-10 | 6.2E-07 | 8.5E-09 | 5.3E-10 | 9.8E-09 | 4.9E-06 |
| 11 | 6.7E+03 | 2.1E-03 | 1.2E-06 | 1.2E-03 | 6.2E-07 | 3.3E-11 | 1.3E-07 | 6.3E-11 | 5.1E-08 | 4.1E-09 | 1.8E-10 | 8.0E-08 | 9.9E-07 |
| 12 | 9.6E+03 | 2.4E-02 | 1.4E-05 | 1.4E-02 | 7.4E-07 | 1.0E-10 | 1.8E-05 | 2.0E-10 | 1.4E-06 | 1.3E-08 | 5.5E-10 | 1.1E-07 | 1.2E-05 |
| 13 | 1.9E+05 | 1.0E+01 | 6.0E-03 | 5.7E+00 | 3.1E-03 | 7.1E-09 | 1.1E-04 | 2.0E-08 | 6.3E-05 | 8.7E-07 | 5.4E-08 | 1.0E-06 | 4.9E-04 |
| 14 | 2.0E+04 | 1.4E+00 | 8.2E-04 | 7.8E-01 | 4.2E-04 | 5.0E-10 | 4.6E-05 | 4.1E-09 | 4.6E-06 | 6.2E-08 | 1.1E-08 | 7.1E-08 | 6.7E-04 |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 3.4E-07 | 2.0E-10 | 1.9E-07 | 1.0E-10 | 2.1E-09 | | 2.9E-09 | 4.0E-06 | 2.6E-07 | 8.0E-09 | 2.5E-06 | 1.6E-10 |
| 19 | 1.4E+03 | 2.5E-06 | 1.5E-09 | 1.4E-06 | 7.7E-10 | 3.7E-10 | | 1.0E-09 | 9.2E-06 | 4.6E-08 | 2.8E-09 | 5.8E-06 | 1.2E-09 |
| 21 | 3.7E+04 | 3.7E-02 | 2.2E-05 | 2.1E-02 | 1.1E-05 | 3.0E-09 | 4.0E-08 | 4.8E-09 | 3.6E-06 | 3.7E-07 | 1.3E-08 | 1.7E-08 | 1.8E-05 |
| 22 | 5.0E+04 | 1.2E-03 | 7.3E-07 | 7.0E-04 | 3.8E-07 | 5.7E-09 | | 8.8E-09 | 2.0E-05 | 7.0E-07 | 2.4E-08 | 6.0E-07 | 6.0E-07 |
| 23 | 8.8E+04 | 6.6E-03 | 4.5E-05 | 4.3E-02 | 2.4E-05 | 4.9E-07 | | 2.3E-08 | 6.0E-05 | 6.0E-05 | 6.4E-08 | 3.7E-05 | 3.7E-05 |
| 24 | 2.5E+03 | 7.5E-02 | 4.4E-05 | 4.2E-02 | 2.3E-05 | 9.5E-11 | | 1.3E-10 | 1.2E-08 | 1.2E-08 | 3.7E-10 | 2.3E-07 | 3.6E-05 |
| 25 | | | | | | | | | | | | | |
| 26 | 2.0E+05 | 1.7E+00 | 9.8E-04 | 9.4E-01 | 5.1E-04 | 8.0E-16 | | 2.4E-08 | 3.2E-13 | 9.8E-14 | 6.7E-08 | 2.2E-06 | 8.1E-04 |
| 27 | 2.7E+03 | 4.4E-02 | 2.6E-05 | 2.4E-02 | 1.3E-05 | 1.1E-17 | | 3.2E-10 | 4.2E-15 | 1.3E-15 | 8.9E-10 | 2.9E-08 | 2.1E-05 |
| 28 | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | |
| 30 | 4.3E+02 | 1.3E-02 | 7.5E-06 | 7.2E-03 | 3.9E-06 | 2.6E-12 | | 3.8E-12 | 3.2E-10 | 3.2E-10 | 1.1E-11 | 1.1E-08 | 6.2E-06 |
| 31 | | | | | | | | | | | | | |
| 32 | 7.3E+04 | 1.7E+00 | 1.0E-03 | 9.5E-01 | 5.2E-04 | 4.5E-10 | | 6.5E-10 | 5.4E-08 | 5.4E-08 | 1.8E-09 | 1.8E-06 | 8.2E-04 |
| 33 | 5.2E+04 | 5.7E-01 | 3.3E-04 | 3.2E-01 | 1.7E-04 | 1.9E-11 | | 2.0E-08 | 6.3E-13 | 2.3E-09 | 5.5E-08 | 2.1E-07 | 2.7E-04 |
| 34 | 8.8E+03 | 2.1E-01 | 1.2E-04 | 1.2E-01 | 6.3E-05 | | | 6.2E-10 | | | 1.7E-09 | 6.6E-09 | 1.0E-04 |
| 35 | 6.2E+04 | 8.4E-01 | 4.9E-04 | 4.7E-01 | 2.6E-04 | 3.7E-10 | | 6.6E-10 | 4.6E-08 | 4.6E-08 | 1.8E-09 | 1.6E-06 | 4.0E-04 |
| 36 | 1.3E+02 | 8.1E-03 | 4.7E-06 | 4.5E-03 | 2.5E-06 | 4.7E-12 | 7.3E-08 | 1.3E-11 | 4.2E-08 | 5.8E-10 | 3.6E-11 | 6.7E-10 | 3.9E-06 |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | 9.3E+04 | 1.2E-01 | 7.3E-05 | 6.9E-02 | 3.8E-05 | 2.3E-09 | | 3.6E-09 | 2.8E-07 | 2.8E-07 | 1.0E-08 | 2.2E-06 | 5.9E-05 |
| 40 | 4.4E+05 | 2.8E-01 | 1.7E-04 | 1.6E-01 | 8.6E-05 | 9.2E-08 | 1.1E-03 | 1.1E-07 | 5.3E-04 | 1.1E-05 | 3.1E-07 | 5.1E-05 | 1.4E-04 |
| 41 | 1.9E+03 | 4.4E-04 | 2.6E-07 | 2.4E-04 | 1.3E-07 | 7.1E-11 | | 1.0E-10 | 8.7E-09 | 8.7E-09 | 2.8E-10 | 1.7E-07 | 2.1E-07 |
| 42 | 1.4E+04 | 1.8E-01 | 1.1E-04 | 1.0E-01 | 5.5E-05 | 1.9E-09 | 5.8E-05 | 2.1E-09 | 8.1E-06 | 2.4E-07 | 5.8E-09 | 6.8E-07 | 8.8E-05 |
| 43 | 1.7E+05 | 1.3E-01 | 7.5E-05 | 7.2E-02 | 3.9E-05 | 6.5E-09 | | 9.0E-09 | 7.9E-07 | 7.9E-07 | 2.5E-08 | 1.6E-05 | 6.2E-05 |
| 44 | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | |
| 47 | 1.7E+05 | 3.8E+00 | 2.2E-03 | 2.1E+00 | 1.1E-03 | 6.9E-16 | | 2.1E-08 | 2.7E-13 | 8.4E-14 | 5.7E-08 | 1.8E-06 | 1.8E-03 |
| 48 | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | |
| 51 | 1.4E+05 | 5.3E-01 | 3.1E-04 | 3.0E-01 | 1.6E-04 | 1.6E-08 | 3.5E-04 | 2.5E-08 | 6.1E-05 | 2.0E-06 | 7.0E-08 | 8.3E-06 | 2.6E-04 |
| Phase Totals | 1.9E+06 | 2.3E+01 | 1.3E-02 | 1.3E+01 | 6.9E-03 | 6.3E-07 | 1.7E-03 | 2.9E-07 | 7.2E-04 | 7.7E-05 | 8.0E-07 | 9.7E-05 | 1.1E-02 |

Table A-10: Salt Interstitial Liquid Phase Actinide Inventory (Alternate Approach)

| Tank | Salt IL Volume, gal | Th-232 (Ci) | U-232 (Ci) | U-233 (Ci) | U-234 (Ci) | U-235 (Ci) | U-236 (Ci) | U-238 (Ci) | Np-237 (Ci) | Pu-238 (Ci) | Pu-239 (Ci) | Pu-240 (Ci) | Pu-241 (Ci) | Pu-242 (Ci) |
|--------------|---------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 1.4E+05 | 1.4E-04 | 4.7E-05 | 1.7E-02 | 4.2E-03 | 1.0E-04 | 4.1E-05 | 2.9E-03 | 3.4E-03 | 1.4E+01 | 1.2E+00 | 3.7E-01 | 5.5E+00 | 1.3E-03 |
| 2 | 1.6E+05 | 1.6E-04 | 5.2E-05 | 1.9E-02 | 4.7E-03 | 1.1E-04 | 4.6E-05 | 3.2E-03 | 3.9E-03 | 1.5E+01 | 1.3E+00 | 4.1E-01 | 6.1E+00 | 1.5E-03 |
| 3 | 1.6E+05 | 1.6E-04 | 5.2E-05 | 1.9E-02 | 4.7E-03 | 1.1E-04 | 4.6E-05 | 3.2E-03 | 3.9E-03 | 1.5E+01 | 1.3E+00 | 4.1E-01 | 6.1E+00 | 1.5E-03 |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 9.0E-05 | 2.2E-05 | 1.8E-02 | 2.6E-03 | 7.1E-05 | 2.7E-04 | 8.3E-04 | 6.7E-03 | 2.3E+01 | 6.6E-01 | 2.7E-01 | 3.6E+00 | 1.8E-04 |
| 10 | 6.3E+04 | 3.6E-05 | 8.9E-06 | 7.3E-03 | 1.0E-03 | 2.8E-05 | 1.1E-04 | 3.3E-04 | 2.6E-03 | 9.2E+00 | 2.6E-01 | 1.1E-01 | 1.4E+00 | 7.2E-05 |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | 3.9E+04 | 9.1E-05 | 2.6E-05 | 3.2E-03 | 4.4E-04 | 3.6E-05 | 3.8E-05 | 6.8E-04 | 4.7E-03 | 2.0E+00 | 5.2E-01 | 1.7E-01 | 6.3E-01 | 3.1E-05 |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | 1.5E+05 | | 2.6E-05 | 8.3E-11 | 2.6E-10 | 7.8E-05 | 1.0E-05 | 9.4E-03 | 2.4E-05 | 5.0E+01 | 7.9E+00 | 1.8E+00 | 3.1E+01 | 3.5E-04 |
| 26 | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | | 5.9E-05 | 1.9E-10 | 6.1E-10 | 1.8E-04 | 2.3E-05 | 2.2E-02 | 5.6E-05 | 1.2E+02 | 1.8E+01 | 4.0E+00 | 7.1E+01 | 8.1E-04 |
| 28 | 3.1E+05 | | 5.3E-05 | 1.7E-10 | 5.4E-10 | 1.6E-04 | 2.1E-05 | 1.9E-02 | 5.0E-05 | 1.0E+02 | 1.6E+01 | 3.6E+00 | 6.3E+01 | 7.2E-04 |
| 29 | 3.1E+05 | 1.7E-04 | 4.3E-05 | 3.5E-02 | 5.0E-03 | 1.4E-04 | 5.1E-04 | 1.6E-03 | 1.3E-02 | 4.5E+01 | 1.3E+00 | 5.2E-01 | 6.8E+00 | 3.5E-04 |
| 30 | 8.9E+04 | | | | 2.4E-04 | 3.5E-06 | 5.5E-05 | 1.6E-06 | 1.0E-04 | 3.4E+01 | 3.1E-01 | 2.3E-01 | 1.2E+01 | 4.8E-04 |
| 31 | 3.4E+05 | 1.9E-04 | 4.8E-05 | 3.9E-02 | 5.6E-03 | 1.5E-04 | 5.7E-04 | 1.8E-03 | 1.4E-02 | 5.0E+01 | 1.4E+00 | 5.9E-01 | 7.7E+00 | 3.9E-04 |
| 32 | 4.1E+04 | | | | 1.1E-04 | 1.6E-06 | 2.5E-05 | 7.5E-07 | 4.6E-05 | 1.5E+01 | 1.4E-01 | 1.1E-01 | 5.4E+00 | 2.2E-04 |
| 33 | 8.8E+04 | | | | 1.4E-05 | 1.5E-04 | 8.0E-05 | 2.1E-02 | 6.6E-03 | 1.1E+01 | 5.8E+00 | 1.0E+00 | 2.2E+01 | 7.8E-05 |
| 34 | 5.7E+04 | | 1.7E-05 | 3.8E-10 | 1.4E-05 | 1.8E-05 | | 1.3E-03 | 9.7E-04 | | 2.0E-01 | 4.3E-02 | 6.9E-01 | 9.4E-06 |
| 35 | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 1.7E-04 | 4.4E-05 | 3.6E-02 | 5.0E-03 | 1.4E-04 | 5.2E-04 | 1.6E-03 | 1.3E-02 | 4.5E+01 | 1.3E+00 | 5.3E-01 | 6.9E+00 | 3.5E-04 |
| 37 | 3.2E+05 | 1.8E-04 | 4.5E-05 | 3.7E-02 | 5.2E-03 | 1.4E-04 | 5.4E-04 | 1.7E-03 | 1.3E-02 | 4.7E+01 | 1.3E+00 | 5.5E-01 | 7.2E+00 | 3.6E-04 |
| 38 | 2.4E+05 | | | | 4.1E-03 | 5.7E-05 | 7.8E-04 | 4.6E-06 | 4.4E-03 | 9.5E+01 | 3.9E-01 | 3.3E-01 | 6.3E+01 | 4.9E-03 |
| 39 | | | | | | | | | | | | | | |
| 40 | 1.8E+05 | | | | 3.0E-03 | 4.2E-05 | 5.7E-04 | 3.4E-06 | 3.2E-03 | 7.0E+01 | 2.9E-01 | 2.4E-01 | 4.6E+01 | 3.6E-03 |
| 41 | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | | 5.2E-05 | 1.7E-10 | 5.3E-10 | 1.6E-04 | 2.0E-05 | 1.9E-02 | 4.9E-05 | 1.0E+02 | 1.6E+01 | 3.5E+00 | 6.2E+01 | 7.0E-04 |
| 45 | 3.3E+05 | | 5.6E-05 | 1.8E-10 | 5.8E-10 | 1.7E-04 | 2.2E-05 | 2.1E-02 | 5.3E-05 | 1.1E+02 | 1.7E+01 | 3.9E+00 | 6.7E+01 | 7.7E-04 |
| 46 | 3.5E+05 | | 5.9E-05 | 1.9E-10 | 6.1E-10 | 1.8E-04 | 2.3E-05 | 2.2E-02 | 5.6E-05 | 1.2E+02 | 1.8E+01 | 4.0E+00 | 7.1E+01 | 8.1E-04 |
| 47 | 2.3E+05 | | 4.0E-05 | 1.3E-10 | 4.1E-10 | 1.2E-04 | 1.6E-05 | 1.4E-02 | 3.7E-05 | 7.7E+01 | 1.2E+01 | 2.7E+00 | 4.7E+01 | 5.4E-04 |
| 48 | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 3.0E-09 | 5.2E-07 | 4.1E-05 | 1.7E-04 | 7.1E-08 | 6.6E-07 | 6.3E-07 | 6.0E-06 | 1.1E-02 | 2.9E-04 | 2.9E-04 | 1.9E-02 | 2.7E-05 |
| 50 | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 1.4E-03 | 8.3E-04 | 2.3E-01 | 4.6E-02 | 2.3E-03 | 4.3E-03 | 1.7E-01 | 9.4E-02 | 1.2E+03 | 1.2E+02 | 2.9E+01 | 6.1E+02 | 2.0E-02 |

Table A-10: Salt Interstitial Liquid Phase Actinide Inventory (Alternate Approach), Continued

| Tank | Salt IL Volume, gal | Am-241 (Ci) | Am-242m (Ci) | Cm-244 (Ci) | Cm-245 (Ci) | Ra-226 (Ci) | Ra-228 (Ci) | Ac-227 (Ci) | Th-229 (Ci) | Th-230 (Ci) | Pa-231 (Ci) | Pu-244 (Ci) | Cm-242 (Ci) |
|--------------|---------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 1.4E+05 | 1.2E+01 | 7.2E-03 | 6.8E+00 | 3.7E-03 | 9.6E-09 | 1.4E-04 | 2.3E-08 | 4.9E-05 | 1.2E-06 | 6.4E-08 | 6.0E-06 | 5.9E-03 |
| 2 | 1.6E+05 | 5.0E+00 | 3.0E-03 | 2.8E+00 | 1.5E-03 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.5E-05 | 1.3E-06 | 7.2E-08 | 6.7E-06 | 2.4E-03 |
| 3 | 1.6E+05 | 5.1E+00 | 3.0E-03 | 2.9E+00 | 1.6E-03 | 1.1E-08 | 1.6E-04 | 2.6E-08 | 5.5E-05 | 1.3E-06 | 7.2E-08 | 6.7E-06 | 2.5E-03 |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 4.9E+00 | 2.9E-03 | 2.8E+00 | 1.5E-03 | 5.8E-09 | 9.0E-05 | 1.6E-08 | 5.2E-05 | 7.2E-07 | 4.5E-08 | 8.3E-07 | 2.4E-03 |
| 10 | 6.3E+04 | 3.4E-01 | 2.0E-04 | 1.9E-01 | 1.0E-04 | 2.3E-09 | 3.6E-05 | 6.4E-09 | 2.1E-05 | 2.8E-07 | 1.8E-08 | 3.3E-07 | 1.6E-04 |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | |
| 25 | 1.5E+05 | 1.0E+00 | 6.0E-04 | 5.7E-01 | 3.1E-04 | 6.0E-16 | 1.8E-08 | 2.4E-13 | 7.3E-14 | 5.0E-08 | 1.6E-06 | 1.6E-06 | 4.9E-04 |
| 26 | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 5.6E+00 | 3.3E-03 | 3.2E+00 | 1.7E-03 | 1.4E-15 | 4.1E-08 | 5.4E-13 | 1.7E-13 | 1.7E-13 | 1.1E-07 | 3.7E-06 | 2.7E-03 |
| 28 | 3.1E+05 | 5.5E+00 | 3.2E-03 | 3.1E+00 | 1.7E-03 | 1.2E-15 | 3.7E-08 | 4.8E-13 | 1.5E-13 | 1.5E-13 | 1.0E-07 | 3.3E-06 | 2.7E-03 |
| 29 | 3.1E+05 | 8.0E-01 | 4.7E-04 | 4.5E-01 | 2.4E-04 | 1.1E-08 | 1.7E-04 | 3.1E-08 | 1.0E-04 | 1.4E-06 | 8.6E-08 | 1.6E-06 | 3.9E-04 |
| 30 | 8.9E+04 | 2.6E+00 | 1.6E-03 | 1.5E+00 | 8.0E-04 | 5.5E-10 | 7.9E-10 | 7.9E-10 | 6.7E-08 | 6.7E-08 | 2.2E-09 | 2.2E-06 | 1.3E-03 |
| 31 | 3.4E+05 | 1.6E+01 | 9.6E-03 | 9.2E+00 | 5.0E-03 | 1.3E-08 | 1.9E-04 | 3.5E-08 | 1.1E-04 | 1.5E-06 | 9.7E-08 | 1.8E-06 | 7.9E-03 |
| 32 | 4.1E+04 | 9.6E-01 | 5.6E-04 | 5.4E-01 | 2.9E-04 | 2.5E-10 | 3.6E-10 | 3.6E-10 | 3.1E-08 | 3.1E-08 | 1.0E-09 | 1.0E-06 | 4.6E-04 |
| 33 | 8.8E+04 | 9.7E-01 | 5.7E-04 | 5.5E-01 | 3.0E-04 | 3.2E-11 | 3.4E-08 | 4.0E-09 | 1.1E-12 | 4.0E-09 | 9.3E-08 | 3.6E-07 | 4.7E-04 |
| 34 | 5.7E+04 | 1.3E+00 | 7.9E-04 | 7.6E-01 | 4.1E-04 | | | | | | 1.1E-08 | 4.3E-08 | 6.5E-04 |
| 35 | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 1.9E+01 | 1.1E-02 | 1.1E+01 | 5.9E-03 | 1.1E-08 | 1.7E-04 | 3.1E-08 | 1.0E-04 | 1.4E-06 | 8.7E-08 | 1.6E-06 | 9.3E-03 |
| 37 | 3.2E+05 | 1.4E+00 | 8.3E-04 | 7.9E-01 | 4.3E-04 | 1.2E-08 | 1.8E-04 | 3.2E-08 | 1.0E-04 | 1.4E-06 | 9.0E-08 | 1.7E-06 | 6.8E-04 |
| 38 | 2.4E+05 | 2.3E-01 | 1.3E-04 | 1.3E-01 | 6.9E-05 | 9.3E-09 | 1.3E-08 | 1.3E-08 | 1.1E-06 | 1.1E-06 | 3.6E-08 | 2.2E-05 | 1.1E-04 |
| 39 | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | |
| 41 | 1.8E+05 | 4.1E-02 | 2.4E-05 | 2.3E-02 | 1.3E-05 | 6.8E-09 | 9.5E-09 | 8.3E-07 | 2.6E-08 | 8.3E-07 | 2.6E-08 | 1.6E-05 | 2.0E-05 |
| 42 | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 4.5E+00 | 2.7E-03 | 2.5E+00 | 1.4E-03 | 1.2E-15 | 3.6E-08 | 4.7E-13 | 4.7E-13 | 1.5E-13 | 1.0E-07 | 3.2E-06 | 2.2E-03 |
| 45 | 3.3E+05 | 6.4E+00 | 3.7E-03 | 3.6E+00 | 1.9E-03 | 1.3E-15 | 3.9E-08 | 5.2E-13 | 5.2E-13 | 1.6E-13 | 1.1E-07 | 3.5E-06 | 3.1E-03 |
| 46 | 3.5E+05 | 1.0E+01 | 5.9E-03 | 5.7E+00 | 3.1E-03 | 1.4E-15 | 4.1E-08 | 5.4E-13 | 5.4E-13 | 1.7E-13 | 1.1E-07 | 3.7E-06 | 4.9E-03 |
| 47 | 2.3E+05 | 5.1E+00 | 3.0E-03 | 2.8E+00 | 1.5E-03 | 9.2E-16 | 2.8E-08 | 3.6E-13 | 3.6E-13 | 1.1E-13 | 7.6E-08 | 2.5E-06 | 2.4E-03 |
| 48 | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 7.1E-04 | 6.3E-08 | 2.1E-04 | 3.3E-08 | 1.6E-04 | 3.0E-09 | 8.3E-11 | 7.3E-09 | 2.3E-10 | 8.1E-08 | 8.1E-08 | 3.2E-07 |
| 50 | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 1.1E+02 | 6.6E-02 | 6.3E+01 | 3.4E-02 | 1.6E-04 | 1.4E-03 | 5.4E-07 | 6.6E-04 | 1.3E-05 | 1.5E-06 | 9.1E-05 | 5.4E-02 |

Table A-11: Sludge Phase Non-Radioactive Inventory

| Tank | Sludge Volume, gal | AgOH (kg) | Al(OH)3 (kg) | BasSO4 (kg) | Cu3(PO4)2 (kg) | CaC2O4 (kg) | CaCO3 (kg) | CaF2 (kg) | CaSO4 (kg) | Cr(OH)3 (kg) | Cr(OH)3 (kg) | Cu(OH)2 (kg) | Fe(OH)3 (kg) | HgO (kg) | KNO3 (kg) | La(OH)3 (kg) | Mg(OH)2 (kg) | MnO2 (kg) | Na2SO4 (kg) | |
|--------------|--------------------|-----------|--------------|-------------|----------------|-------------|------------|-----------|------------|--------------|--------------|--------------|--------------|----------|-----------|--------------|--------------|-----------|-------------|--|
| 1 | 7.0E+03 | 2.4E+01 | 1.5E+03 | 8.2E+01 | 3.7E+01 | 5.0E+02 | 2.0E+01 | 3.3E+01 | 4.0E+01 | 1.3E+00 | 7.9E+01 | 2.3E+01 | 6.5E+03 | 2.4E+01 | 6.4E+01 | 2.0E+01 | 5.9E+01 | 3.8E+03 | | |
| 2 | 4.1E+03 | 6.4E+00 | 1.9E+02 | 1.2E+01 | 5.9E+00 | 1.1E+02 | 5.8E+00 | 1.1E+01 | 7.9E+00 | 1.3E+01 | 1.3E+01 | 5.2E+00 | 1.2E+03 | 3.2E+00 | 1.6E+01 | 4.4E+00 | 8.3E+00 | 9.8E+02 | | |
| 3 | 4.1E+03 | 1.1E+01 | 3.7E+02 | 2.1E+01 | 1.0E+01 | 2.0E+02 | 1.0E+01 | 1.9E+01 | 1.9E+01 | 4.2E+01 | 2.3E+01 | 9.2E+00 | 2.1E+03 | 5.6E+00 | 2.9E+01 | 7.9E+00 | 1.5E+01 | 2.1E+03 | | |
| 4 | 8.0E+03 | -2.1E+02 | 3.6E+01 | -1.9E+02 | 6.1E-01 | -1.8E+03 | -4.8E+01 | 5.5E-01 | 1.1E+00 | 2.5E-02 | 1.3E+00 | 3.9E-01 | 1.0E+02 | 1.2E+00 | 1.0E+00 | 3.2E-01 | 1.9E+00 | 2.5E+01 | 8.5E-02 | |
| 5 | 1.9E+03 | 1.0E+01 | 3.3E+02 | 2.8E+01 | 1.3E+01 | 2.0E+02 | 8.9E+00 | 1.6E+01 | 1.6E+01 | 2.8E+01 | 2.8E+01 | 9.5E+00 | 2.4E+03 | 7.8E+00 | 2.7E+01 | 8.0E+00 | 2.0E+01 | 5.3E+02 | | |
| 6 | 2.0E+03 | 1.2E+01 | 1.2E+03 | 5.1E+01 | 2.2E+01 | 2.8E+02 | 1.0E+01 | 1.6E+01 | 2.3E+01 | 6.1E-01 | 4.7E+01 | 1.4E+01 | 3.8E+03 | 1.5E+01 | 3.4E+01 | 1.1E+01 | 3.7E+01 | 8.6E+02 | | |
| 7 | 2.5E+04 | -3.4E+02 | 5.9E+01 | -3.1E+02 | 1.0E+00 | -2.9E+03 | -1.8E+01 | -7.9E+01 | 9.0E-01 | 4.0E-02 | 2.1E+00 | 6.3E-01 | 1.7E+02 | 1.9E+00 | 1.6E+00 | 5.3E-01 | 3.0E+00 | 4.1E+01 | 1.4E-01 | |
| 8 | 1.8E+04 | 3.8E+01 | 4.7E+04 | 1.8E+02 | 1.0E+02 | 1.6E+03 | 7.2E+02 | 3.4E+01 | 6.2E+01 | 2.4E+00 | 2.5E+02 | 6.8E+01 | 1.5E+04 | 2.6E+02 | 2.7E+02 | 6.4E+01 | 2.6E+02 | 9.9E+02 | 2.4E+02 | |
| 9 | 2.7E+03 | 1.1E+00 | 1.8E+02 | 1.1E+01 | 5.6E+00 | 1.1E+02 | 1.8E+01 | 9.5E-01 | 1.8E+00 | 1.0E+01 | 1.2E+01 | 4.9E+00 | 1.1E+03 | 3.0E+00 | 1.5E+01 | 4.2E+00 | 7.9E+00 | 9.0E+02 | | |
| 10 | 2.7E+03 | 1.1E+00 | 1.8E+02 | 1.1E+01 | 5.6E+00 | 1.1E+02 | 1.8E+01 | 9.5E-01 | 1.8E+00 | 1.0E+01 | 1.2E+01 | 4.9E+00 | 1.1E+03 | 3.0E+00 | 1.5E+01 | 4.2E+00 | 7.9E+00 | 9.0E+02 | | |
| 11 | 9.5E+03 | 4.0E+01 | 1.7E+04 | 6.0E+01 | 2.6E+01 | 6.2E+02 | 4.2E+02 | 1.3E+02 | 1.3E+02 | 8.0E+01 | 8.0E+01 | 1.8E+01 | 7.2E+03 | 5.2E-01 | 2.7E+00 | 7.3E-01 | 1.4E+00 | 2.4E+02 | | |
| 12 | 1.4E+04 | 1.3E+00 | 2.0E+03 | 6.7E+00 | 4.1E+00 | 6.9E+01 | 2.2E+01 | 1.1E+00 | 2.1E+00 | 8.2E-02 | 9.9E+00 | 2.6E+00 | 5.7E+02 | 9.7E+01 | 1.0E+01 | 4.6E+01 | 1.4E+02 | 9.4E+01 | | |
| 13 | 2.8E+05 | 1.7E+02 | 1.7E+05 | 2.3E+03 | 3.8E+02 | 4.2E+03 | 3.6E+04 | 1.5E+02 | 2.7E+02 | 1.0E+01 | 2.0E+02 | 5.5E+02 | 3.9E+05 | 2.2E+04 | 2.2E+03 | 2.8E+03 | 5.4E+03 | 4.8E+04 | 6.2E+02 | |
| 14 | 2.8E+04 | 2.4E+00 | 1.7E+03 | 3.1E+01 | 1.2E+01 | 3.0E+01 | 1.4E+02 | 1.3E+00 | 2.7E+02 | 1.0E+01 | 2.8E+01 | 6.3E+00 | 2.3E+03 | 7.5E+01 | 1.3E+01 | 8.6E+00 | 3.0E+01 | 2.2E+03 | 4.6E+00 | |
| 15 | 1.6E+05 | 2.1E+05 | 2.1E+05 | 4.3E+02 | 2.3E+02 | 5.4E+03 | 1.4E+03 | 7.0E+02 | 2.0E+02 | 2.3E+01 | 2.7E+02 | 6.5E+02 | 4.7E+04 | 8.6E+03 | 6.5E+02 | 2.8E+02 | 9.7E+02 | 6.6E+03 | 8.2E+02 | |
| 16 | 4.0E+03 | 3.6E+00 | 6.5E+03 | 6.4E+00 | 2.6E+00 | 7.3E+01 | 4.5E+00 | 5.4E+01 | 8.9E+00 | 1.9E+00 | 2.2E+01 | 7.6E+00 | 3.3E+03 | 9.8E+00 | 6.4E+00 | 4.4E+00 | 9.6E+02 | 3.4E+02 | | |
| 18 | 2.0E+03 | 6.9E+00 | 2.2E+04 | 8.5E+01 | 3.7E+01 | 1.0E+03 | 6.4E+01 | 1.3E+02 | 2.6E+02 | 8.5E+00 | 3.9E+01 | 3.9E+00 | 2.0E+03 | 3.8E+00 | 1.6E+01 | 1.1E+01 | 3.3E+02 | 1.2E+02 | | |
| 19 | 5.3E+04 | 7.2E+04 | 7.3E+02 | 4.4E+01 | 9.1E-02 | 8.9E+02 | 1.9E+03 | 2.3E+02 | 2.3E+02 | 3.1E+01 | 3.1E+01 | 7.9E+00 | 9.0E+03 | 4.2E+02 | 3.6E+01 | 7.0E+01 | 1.2E+02 | 4.0E+00 | 3.3E-01 | |
| 21 | 7.2E+04 | 2.0E+03 | 2.0E+03 | 9.2E+01 | | 1.9E+03 | | 4.9E+02 | | 6.4E+01 | 6.4E+01 | 1.7E+01 | 2.1E+04 | 8.9E+02 | 7.4E+01 | 1.5E+02 | 2.6E+02 | 2.4E+02 | | |
| 23 | 1.3E+05 | | | | | | | | | | | | 2.9E+04 | | | | | | | |
| 24 | 3.5E+03 | | | | | | | | | | | | | | | | | | | |
| 25 | 2.9E+05 | | | | | | | | | | | | | | | | | | | |
| 26 | 3.9E+03 | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | |
| 30 | 6.2E+02 | | 8.4E+02 | 1.4E+00 | 9.0E-01 | 2.2E+01 | | | | | 2.3E+00 | 5.0E-01 | 1.0E+02 | 3.0E+01 | 2.2E+00 | 4.4E-01 | 2.7E+00 | 3.0E+01 | 3.3E+00 | |
| 31 | | | | | | | | | | | | | | | | | | | | |
| 32 | 1.0E+05 | | 1.7E+05 | 9.1E+02 | 5.6E+02 | 1.3E+04 | 1.1E+03 | 6.3E+02 | 6.3E+02 | 1.5E+03 | 1.5E+03 | 3.2E+02 | 7.5E+04 | 1.9E+04 | 1.4E+03 | 3.6E+02 | 1.8E+03 | 5.7E+03 | 2.0E+03 | |
| 33 | 7.4E+04 | 4.3E+02 | 1.2E+04 | 1.1E+03 | 5.1E+02 | 8.1E+03 | 8.1E+03 | 3.7E+02 | 6.6E+02 | 2.6E+01 | 1.1E+03 | 3.9E+02 | 9.5E+04 | 3.0E+02 | 1.1E+03 | 3.3E+02 | 7.7E+02 | 1.9E+03 | | |
| 34 | 1.3E+04 | 6.6E+01 | 6.4E+03 | 7.3E+02 | 3.0E+02 | | 2.5E+03 | 3.6E+01 | | 6.3E+02 | 6.3E+02 | 1.4E+02 | 4.4E+04 | 2.2E+02 | 2.3E+02 | 1.1E+02 | 5.4E+02 | 1.8E+01 | | |
| 35 | 8.9E+04 | 1.1E+05 | 1.1E+05 | 6.7E+02 | 4.4E+02 | 1.1E+04 | 2.7E+02 | 2.7E+02 | 2.7E+02 | 1.1E+03 | 1.1E+03 | 2.4E+02 | 5.0E+04 | 1.5E+04 | 1.1E+03 | 2.1E+02 | 1.3E+03 | 4.6E+03 | 1.6E+03 | |
| 36 | 1.9E+02 | | 2.5E+02 | 4.1E-01 | 2.7E-01 | 6.5E+00 | | | | 6.8E-01 | 6.8E-01 | 1.5E-01 | 3.0E+01 | 9.0E+00 | 6.7E-01 | 1.3E-01 | 8.1E-01 | 7.2E+00 | 9.7E-01 | |
| 37 | | | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | | |
| 39 | 1.3E+05 | | 1.6E+05 | 6.3E+02 | 2.6E+02 | 6.2E+03 | 5.1E+03 | | | | 8.3E+02 | 1.9E+02 | 8.1E+04 | 1.1E+04 | 8.5E+02 | 5.3E+02 | 1.5E+03 | 1.9E+04 | 9.4E+02 | |
| 40 | 6.3E+05 | 3.0E+02 | 1.2E+05 | 1.1E+03 | 5.6E+02 | 4.0E+03 | 7.2E+03 | 3.1E+02 | 5.6E+02 | 2.6E+01 | 1.3E+03 | 3.7E+02 | 9.6E+04 | 6.1E+03 | 1.2E+03 | 3.7E+02 | 2.2E+03 | 3.1E+04 | 6.0E+02 | |
| 41 | 2.7E+03 | | 2.6E+02 | 1.6E+01 | | 3.3E+02 | | 8.7E+01 | | 1.1E+01 | 2.9E+00 | 3.3E+03 | 3.3E+03 | 1.6E+02 | 1.3E+01 | 2.6E+01 | 4.6E+01 | | | |
| 42 | 1.8E+04 | 4.2E+01 | 1.6E+04 | 1.1E+02 | 5.1E+01 | 4.9E+02 | 1.2E+03 | 4.0E+01 | 7.6E+01 | 1.4E+02 | 1.4E+02 | 4.6E+01 | 1.4E+04 | 9.4E+02 | 1.7E+02 | 7.7E+01 | 1.9E+02 | 2.4E+03 | 7.3E+01 | |
| 43 | 2.4E+05 | | 3.5E+04 | 3.6E+02 | 3.7E+00 | 8.8E+01 | 7.2E+03 | | | 2.6E+02 | 2.6E+02 | 6.6E+01 | 8.0E+04 | 3.5E+03 | 3.0E+02 | 5.7E+02 | 1.0E+03 | | 1.3E+01 | |
| 44 | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | | |
| 47 | 2.5E+05 | 4.6E+02 | 3.7E+04 | 4.0E+02 | 2.5E+02 | 7.0E+03 | 4.3E+02 | 8.6E+02 | 4.6E+02 | 3.3E+01 | 5.6E+02 | 3.1E+02 | 6.2E+04 | 8.9E+01 | 1.1E+03 | 2.7E+02 | 2.7E+02 | 9.0E+03 | | |
| 48 | 1.8E+04 | | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | |
| 51 | 1.8E+05 | -2.3E+02 | 3.5E+04 | 1.6E+02 | 2.2E+02 | -2.0E+03 | 2.6E+03 | 3.4E+01 | 1.9E+02 | 3.1E+02 | 4.8E+02 | 1.4E+02 | 3.5E+04 | 1.3E+03 | 3.9E+02 | 1.2E+02 | 8.1E+02 | 1.1E+04 | 1.3E+02 | |
| Phase Totals | 2.9E+06 | 1.3E+03 | 1.2E+06 | 9.6E+03 | 4.3E+03 | 4.0E+04 | 9.5E+04 | 1.9E+03 | 3.9E+03 | 1.9E+04 | 1.2E+04 | 3.4E+03 | 1.3E+06 | 9.3E+04 | 1.3E+04 | 6.8E+03 | 2.0E+04 | 1.7E+05 | 8.5E+03 | |

Table A-11: Sludge Phase Non-Radioactive Inventory, Continued

| Tank | Na3PO4 (kg) | NaCl (kg) | NaF (kg) | NaI (kg) | NaNO3 (kg) | NaOH (kg) | Ni(OH)2 (kg) | PbCO3 (kg) | PbSO4 (kg) | Pt(OH)3 (kg) | RuO2 (kg) | SiO2 (kg) | SrCO3 (kg) | ThO2 (kg) | TiO2 (kg) | UO2(OH)2 (kg) | Zn(OH)2 (kg) | ZrO(OH)2 (kg) | Integral Zeolite (kg) | Dry sludge mass (kg) |
|--------------|-------------|-----------|----------|----------|------------|-----------|--------------|------------|------------|--------------|-----------|-----------|------------|-----------|-----------|---------------|--------------|---------------|-----------------------|----------------------|
| 1 | 1.2E+02 | 1.9E+00 | 6.6E+02 | 1.2E+03 | 4.1E+01 | 2.8E+01 | 2.0E+01 | 6.6E+01 | 1.7E+02 | 2.8E+01 | 1.7E+03 | 4.3E+01 | 9.0E+01 | 1.7E+04 | | | | | | |
| 2 | 3.5E+01 | 6.2E-01 | 1.2E+02 | 1.1E+02 | 4.1E+00 | 7.0E+00 | 4.4E+00 | 1.4E+01 | 3.9E+01 | 4.1E+00 | 7.7E+01 | 9.6E+01 | 1.8E+01 | 3.0E+03 | | | | | | |
| 3 | 6.3E+01 | 1.1E+00 | 2.1E+02 | 2.0E+02 | 7.3E+00 | 1.2E+01 | 7.8E+00 | 2.5E+01 | 6.8E+01 | 7.3E+00 | 1.9E+02 | 1.7E+01 | 3.2E+01 | 5.8E+03 | | | | | | |
| 4 | 7.7E-03 | 8.7E-02 | 6.2E-02 | 2.7E+01 | 6.4E-01 | 4.3E-01 | 3.3E-01 | 1.0E+00 | 1.3E+01 | 5.7E-01 | 3.9E-02 | 1.7E+01 | 1.4E+00 | 2.0E+03 | | | | | | |
| 5 | 5.4E+01 | 9.0E-01 | 2.4E+02 | 5.3E+02 | 1.2E+01 | 1.2E+01 | 8.0E+00 | 2.6E+01 | 6.9E+01 | 9.6E+00 | 9.2E+02 | 1.7E+01 | 3.4E+01 | 5.6E+03 | | | | | | |
| 6 | 6.0E+01 | 9.0E-01 | 1.1E+02 | 1.5E+03 | 2.7E+01 | 1.5E+01 | 1.1E+01 | 3.7E+01 | 9.7E+01 | 1.8E+01 | 2.3E+03 | 2.4E+01 | 5.1E+01 | 1.1E+04 | | | | | | |
| 7 | 1.3E-02 | 8.2E+00 | 1.0E-01 | 4.4E+01 | 1.0E+00 | 7.1E-01 | 5.4E-01 | 1.7E+00 | 2.2E+01 | 9.4E-01 | 6.6E+01 | 1.1E+00 | 2.3E+00 | 3.2E+03 | | | | | | |
| 8 | 2.2E+01 | 3.6E+00 | 1.8E+02 | 1.8E+03 | 2.7E+01 | 5.7E+01 | 6.2E+01 | 1.1E+02 | 3.8E+03 | 7.4E+01 | 1.2E+03 | 9.4E+01 | 3.1E+02 | 9.3E+04 | | | | | | |
| 9 | 3.4E+01 | 5.9E-01 | 3.5E+01 | 1.1E+02 | 3.9E+00 | 6.7E+00 | 4.2E+00 | 1.4E+01 | 3.7E+01 | 3.9E+00 | 1.1E+02 | 9.1E+00 | 1.7E+01 | 2.9E+03 | | | | | | |
| 10 | 5.8E+00 | 1.0E-01 | 1.9E+01 | 2.2E+01 | 6.8E-01 | 1.1E+00 | 7.2E-01 | 2.3E+00 | 6.3E+00 | 6.8E-01 | 2.2E+01 | 1.6E+00 | 2.9E+00 | 6.0E+02 | | | | | | |
| 11 | 8.6E+00 | 1.3E+02 | 6.9E+01 | 6.1E+01 | 6.0E+00 | 5.6E+01 | 3.5E+01 | 9.2E+00 | 1.4E+03 | 2.2E+01 | 3.2E+01 | 1.4E+01 | 1.2E+02 | 3.1E+04 | | | | | | |
| 12 | 9.5E-01 | 7.1E+00 | 7.6E+00 | 4.3E+01 | 8.4E-01 | 1.8E+00 | 2.3E+00 | 3.8E+00 | 1.6E+02 | 1.5E+02 | 2.9E+01 | 3.5E+00 | 1.2E+01 | 3.8E+03 | | | | | | |
| 13 | 5.7E+01 | 1.1E+04 | 4.6E+02 | 3.0E+04 | 6.7E+02 | 4.3E+03 | 2.0E+03 | 4.8E+02 | 1.0E+04 | 6.0E+02 | 7.1E+03 | 3.8E+02 | 5.0E+03 | 7.9E+05 | | | | | | |
| 14 | 4.2E-01 | 2.3E+01 | 3.3E+00 | 2.3E+02 | 1.7E+01 | 1.0E+01 | 7.2E+00 | 1.3E+01 | 9.8E+01 | 1.0E+01 | 3.0E+02 | 8.4E+00 | 3.0E+01 | 7.8E+03 | | | | | | |
| 15 | 7.5E+01 | 6.8E+02 | 6.0E+02 | 4.9E+03 | 3.1E+01 | 3.0E+02 | 2.2E+02 | 8.0E+01 | 1.2E+04 | 1.8E+02 | 5.1E+01 | 1.2E+02 | 9.0E+02 | 3.3E+05 | | | | | | |
| 16 | 2.8E+01 | 5.1E-01 | 6.3E+01 | 3.0E+01 | 5.1E+00 | 2.8E+00 | 2.8E+00 | 1.6E+02 | 2.5E+03 | 1.6E+02 | 6.9E+02 | 1.3E+01 | 2.8E+00 | 1.5E+04 | | | | | | |
| 18 | 4.9E+03 | 9.0E+01 | 1.1E+04 | 1.2E+01 | 3.9E+01 | 1.1E+02 | 2.0E+01 | 9.6E+01 | 1.2E+04 | 1.9E+01 | 5.2E+01 | 5.4E+00 | 1.4E+01 | 5.8E+04 | | | | | | |
| 19 | 3.0E-02 | 2.8E+02 | 2.4E-01 | 6.4E+02 | 1.3E+01 | 1.1E+02 | 4.7E+01 | 3.2E-02 | 4.8E+00 | 8.6E+00 | 8.2E+00 | 5.0E-02 | 1.1E+02 | 1.3E+04 | | | | | | |
| 21 | 5.9E+02 | 1.4E+02 | 1.4E+03 | 1.4E+03 | 2.7E+01 | 2.3E+02 | 9.8E+01 | 1.8E+01 | 4.8E+03 | 1.8E+01 | 5.0E+02 | 7.2E+02 | 2.2E+02 | 3.0E+04 | | | | | | |
| 23 | 2.6E+03 | 1.0E+03 | 1.0E+03 | 1.0E+03 | 1.0E+03 | 4.8E+03 | 1.0E+02 | 4.8E+03 | 1.0E+02 | 1.0E+02 | 1.0E+02 | 7.2E+02 | 1.9E+04 | 4.0E+04 | | | | | | |
| 24 | 2.9E+03 | 5.4E+01 | 6.6E+03 | 6.6E+03 | 2.2E+03 | 5.3E+02 | 3.0E+02 | 9.5E+02 | 2.6E+03 | 1.6E+02 | 1.2E+04 | 6.6E+02 | 1.1E+03 | 1.6E+05 | | | | | | |
| 25 | 2.9E+03 | 5.4E+01 | 6.6E+03 | 6.6E+03 | 2.2E+03 | 5.3E+02 | 3.0E+02 | 9.5E+02 | 2.6E+03 | 1.6E+02 | 1.2E+04 | 6.6E+02 | 1.1E+03 | 1.6E+05 | | | | | | |
| 26 | 2.9E+03 | 5.4E+01 | 6.6E+03 | 6.6E+03 | 2.2E+03 | 5.3E+02 | 3.0E+02 | 9.5E+02 | 2.6E+03 | 1.6E+02 | 1.2E+04 | 6.6E+02 | 1.1E+03 | 1.6E+05 | | | | | | |
| 27 | 2.9E+03 | 5.4E+01 | 6.6E+03 | 6.6E+03 | 2.2E+03 | 5.3E+02 | 3.0E+02 | 9.5E+02 | 2.6E+03 | 1.6E+02 | 1.2E+04 | 6.6E+02 | 1.1E+03 | 1.6E+05 | | | | | | |
| 28 | 2.9E+03 | 5.4E+01 | 6.6E+03 | 6.6E+03 | 2.2E+03 | 5.3E+02 | 3.0E+02 | 9.5E+02 | 2.6E+03 | 1.6E+02 | 1.2E+04 | 6.6E+02 | 1.1E+03 | 1.6E+05 | | | | | | |
| 29 | 2.9E+03 | 5.4E+01 | 6.6E+03 | 6.6E+03 | 2.2E+03 | 5.3E+02 | 3.0E+02 | 9.5E+02 | 2.6E+03 | 1.6E+02 | 1.2E+04 | 6.6E+02 | 1.1E+03 | 1.6E+05 | | | | | | |
| 30 | 3.0E-01 | 2.4E+00 | 1.4E+01 | 1.4E+01 | 3.3E+01 | 1.4E+01 | 4.4E-01 | 3.2E-01 | 4.7E+01 | 6.4E-01 | 3.1E-01 | 4.9E-01 | 2.6E+00 | 1.1E+03 | | | | | | |
| 31 | 1.9E+02 | 3.5E+02 | 1.5E+03 | 9.2E+03 | 2.0E+04 | 9.2E+03 | 1.4E+03 | 2.0E+02 | 2.9E+04 | 4.1E+02 | 1.1E+02 | 3.0E+02 | 1.7E+03 | 3.6E+05 | | | | | | |
| 32 | 2.3E+03 | 3.8E+01 | 9.6E+03 | 9.6E+03 | 2.9E+03 | 9.6E+03 | 3.2E+02 | 1.0E+03 | 2.8E+03 | 3.8E+02 | 1.2E+05 | 7.0E+02 | 1.4E+03 | 2.7E+05 | | | | | | |
| 33 | 1.9E+02 | 1.9E+02 | 1.2E+03 | 1.0E+04 | 4.5E+02 | 9.7E+01 | 1.1E+02 | 3.5E+02 | 8.8E+02 | 2.5E+02 | 3.1E+04 | 2.1E+02 | 5.5E+02 | 1.1E+05 | | | | | | |
| 34 | 1.4E+02 | 1.6E+04 | 6.6E+03 | 2.2E+03 | 5.7E+01 | 2.1E+02 | 1.5E+02 | 3.1E+02 | 1.5E+02 | 3.1E+02 | 1.5E+02 | 2.4E+02 | 1.2E+03 | 2.5E+05 | | | | | | |
| 35 | 8.9E-02 | 7.1E-01 | 4.0E+00 | 4.0E+00 | 9.7E+00 | 4.0E+00 | 1.3E-01 | 9.5E-02 | 1.4E+01 | 1.9E-01 | 3.1E-01 | 1.5E-01 | 7.6E-01 | 3.4E+02 | | | | | | |
| 36 | 1.6E+03 | 6.9E+02 | 4.4E+02 | 7.6E+03 | 9.8E+03 | 7.6E+03 | 4.0E+02 | 9.2E+01 | 1.4E+04 | 2.3E+02 | 4.3E+02 | 1.4E+02 | 1.3E+03 | 3.3E+05 | | | | | | |
| 37 | 5.5E+01 | 5.7E+03 | 4.4E+02 | 1.8E+04 | 1.1E+04 | 1.8E+04 | 3.5E+02 | 4.7E+02 | 2.2E+04 | 8.0E+02 | 2.6E+04 | 5.8E+02 | 1.5E+03 | 3.9E+05 | | | | | | |
| 38 | 1.0E+02 | 1.0E+02 | 2.4E+02 | 2.4E+02 | 4.7E+00 | 4.1E+01 | 1.7E+01 | 3.2E+00 | 3.2E+00 | 3.2E+00 | 1.9E-01 | 3.9E+01 | 3.9E+01 | 4.8E+03 | | | | | | |
| 39 | 6.7E+00 | 4.9E+02 | 5.4E+01 | 1.5E+03 | 1.1E+03 | 1.5E+03 | 1.1E+02 | 6.3E+01 | 1.6E+03 | 4.2E+01 | 1.3E+03 | 6.9E+01 | 2.2E+02 | 4.5E+04 | | | | | | |
| 40 | 1.2E+00 | 2.3E+03 | 9.7E+00 | 6.8E+02 | 6.8E+02 | 5.3E+03 | 9.0E+02 | 3.8E+02 | 1.9E+02 | 7.2E+01 | 5.4E+01 | 2.0E+00 | 8.7E+02 | 1.4E+05 | | | | | | |
| 41 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 42 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 43 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 44 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 45 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 46 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 47 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 48 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 49 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 50 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | 2.7E+03 | | | | | | |
| 51 | 1.2E+01 | 2.1E+03 | 9.7E+01 | 3.8E+01 | 3.4E+03 | 7.2E+03 | 9.0E+03 | 1.9E+02 | 1.4E+02 | 1.1E+02 | 3.2E+02 | 7.4E+03 | 2.2E+02 | 1.3E+04 | 1.3E+05 | | | | | |
| Phase Totals | 3.2E+03 | 3.9E+04 | 5.2E+03 | 4.0E+02 | 9.8E+04 | 2.6E+04 | 6.0E+04 | 2.6E+03 | 9.4E+03 | 5.4E+03 | 5.8E+03 | 1.5E+05 | 3.9E+03 | 3.1E+04 | 2.3E+02 | 2.2E+05 | 5.2E+03 | 1.9E+04 | 1.9E+04 | 3.8E+06 |

Table A-12: Salt Phase Non-Radioactive Inventory

| Tank | Salt Volume, gal | Na ₂ CO ₃ (kg) | Na ₂ SO ₄ (kg) | Na ₃ PO ₄ (kg) | NaAlO ₂ ·2H ₂ O (kg) | NaCl (kg) | NaF (kg) | NaNO ₂ (kg) | NaNO ₃ (kg) | NaOH (kg) | Other Salts (kg) | Insol Salts (kg) |
|---------------------|------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|-----------|----------|------------------------|------------------------|-----------|------------------|------------------|
| 1 | 4.8E+05 | 1.2E+04 | 1.5E+05 | 7.6E+04 | 1.6E+04 | 1.8E+02 | 4.5E+03 | 2.2E+04 | 2.3E+06 | 1.9E+04 | 4.6E+03 | 6.8E+03 |
| 2 | 5.4E+05 | 1.3E+04 | 1.7E+05 | 8.5E+04 | 1.7E+04 | 2.0E+02 | 5.0E+03 | 2.4E+04 | 2.5E+06 | 2.1E+04 | 5.1E+03 | 7.6E+03 |
| 3 | 5.4E+05 | 1.3E+04 | 1.7E+05 | 8.5E+04 | 1.7E+04 | 2.0E+02 | 5.0E+03 | 2.4E+04 | 2.5E+06 | 2.1E+04 | 5.1E+03 | 7.6E+03 |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 5.3E+05 | 1.3E+04 | 1.7E+05 | 8.5E+04 | 1.7E+04 | 2.0E+02 | 5.0E+03 | 2.4E+04 | 2.5E+06 | 2.1E+04 | 5.1E+03 | 7.6E+03 |
| 10 | 2.1E+05 | 5.2E+03 | 6.6E+04 | 3.4E+04 | 6.8E+03 | 7.9E+01 | 2.0E+03 | 9.5E+03 | 1.0E+06 | 8.5E+03 | 2.0E+03 | 3.0E+03 |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 1.3E+05 | 3.2E+03 | 4.1E+04 | 2.1E+04 | 4.2E+03 | 4.8E+01 | 1.2E+03 | 5.8E+03 | 6.1E+05 | 5.2E+03 | 1.2E+03 | 1.8E+03 |
| 15 | 7.6E+04 | 1.9E+03 | 2.4E+04 | 1.2E+04 | 2.5E+03 | 2.8E+01 | 7.1E+02 | 3.4E+03 | 3.6E+05 | 3.1E+03 | 7.3E+02 | 1.1E+03 |
| 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | 5.0E+05 | 1.2E+04 | 1.6E+05 | 8.0E+04 | 1.6E+04 | 1.9E+02 | 4.7E+03 | 2.3E+04 | 2.4E+06 | 2.0E+04 | 4.8E+03 | 7.1E+03 |
| 26 | | | | | | | | | | | | |
| 27 | 1.2E+06 | 2.9E+04 | 3.6E+05 | 1.8E+05 | 3.8E+04 | 4.3E+02 | 1.1E+04 | 5.2E+04 | 5.5E+06 | 4.6E+04 | 1.1E+04 | 1.6E+04 |
| 28 | 1.0E+06 | 2.5E+04 | 3.2E+05 | 1.6E+05 | 3.3E+04 | 3.8E+02 | 9.6E+03 | 4.6E+04 | 4.9E+06 | 4.1E+04 | 9.9E+03 | 1.5E+04 |
| 29 | 1.0E+06 | 2.5E+04 | 3.2E+05 | 1.6E+05 | 3.3E+04 | 3.8E+02 | 9.5E+03 | 4.6E+04 | 4.8E+06 | 4.1E+04 | 9.8E+03 | 1.4E+04 |
| 30 | 3.0E+05 | 7.4E+03 | 9.3E+04 | 4.7E+04 | 9.6E+03 | 1.1E+02 | 2.8E+03 | 1.3E+04 | 1.4E+06 | 1.2E+04 | 2.9E+03 | 4.2E+03 |
| 31 | 1.1E+06 | 2.8E+04 | 3.6E+05 | 1.8E+05 | 3.7E+04 | 4.3E+02 | 1.1E+04 | 5.2E+04 | 5.4E+06 | 4.6E+04 | 1.1E+04 | 1.6E+04 |
| 32 | 1.4E+05 | 3.4E+03 | 4.3E+04 | 2.2E+04 | 4.4E+03 | 5.1E+01 | 1.3E+03 | 6.2E+03 | 6.5E+05 | 5.5E+03 | 1.3E+03 | 1.9E+03 |
| 33 | 2.9E+05 | 7.3E+03 | 9.2E+04 | 4.7E+04 | 9.5E+03 | 3.5E+04 | 2.7E+03 | 1.3E+04 | 1.4E+06 | 1.2E+04 | 2.8E+03 | 4.2E+03 |
| 34 | 1.9E+05 | 4.7E+03 | 6.0E+04 | 3.0E+04 | 6.2E+03 | 7.1E+01 | 1.8E+03 | 8.6E+03 | 9.0E+05 | 7.7E+03 | 1.8E+03 | 2.7E+03 |
| 35 | | | | | | | | | | | | |
| 36 | 1.0E+06 | 2.6E+04 | 3.2E+05 | 1.6E+05 | 3.4E+04 | 3.9E+02 | 9.7E+03 | 4.7E+04 | 4.9E+06 | 4.1E+04 | 9.9E+03 | 1.5E+04 |
| 37 | 1.1E+06 | 2.6E+04 | 3.3E+05 | 1.7E+05 | 3.5E+04 | 4.0E+02 | 1.0E+04 | 4.8E+04 | 5.1E+06 | 4.3E+04 | 1.0E+04 | 1.5E+04 |
| 38 | 8.1E+05 | 2.0E+04 | 2.5E+05 | 1.3E+05 | 2.6E+04 | 3.0E+02 | 7.5E+03 | 3.6E+04 | 3.8E+06 | 3.2E+04 | 7.8E+03 | 1.1E+04 |
| 39 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |
| 41 | 5.9E+05 | 1.5E+04 | 1.9E+05 | 9.4E+04 | 1.9E+04 | 2.2E+02 | 5.5E+03 | 2.7E+04 | 2.8E+06 | 2.4E+04 | 5.7E+03 | 8.4E+03 |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | 1.0E+06 | 2.5E+04 | 3.2E+05 | 1.6E+05 | 3.3E+04 | 3.8E+02 | 9.4E+03 | 4.5E+04 | 4.8E+06 | 4.0E+04 | 9.7E+03 | 1.4E+04 |
| 45 | 1.1E+06 | 2.7E+04 | 3.5E+05 | 1.8E+05 | 3.6E+04 | 4.1E+02 | 1.0E+04 | 5.0E+04 | 5.2E+06 | 4.4E+04 | 1.1E+04 | 1.6E+04 |
| 46 | 1.2E+06 | 2.9E+04 | 3.6E+05 | 1.8E+05 | 3.7E+04 | 4.3E+02 | 1.1E+04 | 5.2E+04 | 5.5E+06 | 4.6E+04 | 1.1E+04 | 1.6E+04 |
| 47 | 7.7E+05 | 1.9E+04 | 2.4E+05 | 1.2E+05 | 2.5E+04 | 2.9E+02 | 7.2E+03 | 3.5E+04 | 3.7E+06 | 3.1E+04 | 7.4E+03 | 1.1E+04 |
| 48 | | | | | | | | | | | | |
| 49 | 3.0E+02 | 7.4E+00 | 9.4E+01 | 4.8E+01 | 3.6E+01 | 1.1E+01 | 2.8E+00 | 1.3E+01 | 1.4E+03 | 1.2E+01 | 2.9E+00 | 4.2E+00 |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| Phase Totals | 1.6E+07 | 3.9E+05 | 5.0E+06 | 2.5E+06 | 5.1E+05 | 1.9E+06 | 5.9E+03 | 7.1E+05 | 7.5E+07 | 6.3E+05 | 1.5E+05 | 2.2E+05 |

Table A-13: Total Liquid Phase Non-Radioactive Inventory

| Tank | Total Supernatant Volume, gal | Ag (kg) | Al (kg) | As (kg) | B (kg) | Ba (kg) | Benzene (kg) | Ca (kg) | Cd (kg) | Co (kg) | Cr (kg) | Cs (kg) | Cu (kg) | Fe (kg) | Hg (kg) | K (kg) | Mg (kg) | Mn (kg) | Mo (kg) | Nd (kg) | Ni (kg) | Pb (kg) | | |
|--------------|-------------------------------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| 1 | 1.5E+05 | 1.9E+00 | | 2.0E+02 | | | | | 9.3E+00 | 8.0E-01 | 2.6E+02 | 1.7E+02 | 3.1E+02 | 1.8E+01 | 1.9E+01 | 5.0E+03 | 5.4E-01 | | | | 1.9E+00 | | | |
| 2 | 1.6E+05 | 2.5E-02 | | 1.6E+02 | | | | | 7.0E+00 | 6.6E-01 | 1.3E+02 | 6.2E+01 | 2.3E+02 | 1.1E+01 | 1.2E+01 | 4.9E+03 | 4.6E-03 | 4.3E-01 | | | | 1.6E+00 | | |
| 3 | 1.6E+05 | 2.5E-02 | | 1.5E+02 | | | | | 6.0E+00 | 6.4E-01 | 1.3E+02 | 6.3E+01 | 2.2E+02 | 1.1E+01 | 1.2E+01 | 4.9E+03 | 2.0E-02 | 4.1E-01 | | | | 1.5E+00 | | |
| 4 | 2.9E+05 | 2.0E-01 | | 8.7E+01 | 3.0E+01 | | | | 9.5E+00 | 5.5E-01 | 4.5E+02 | 1.0E+01 | 4.2E+01 | 2.0E+00 | 1.3E+01 | 2.4E+02 | 1.2E+01 | 7.5E+01 | | | | 4.4E+01 | | |
| 5 | 1.6E+03 | 6.0E-04 | | 3.2E-01 | | | | | 2.3E-02 | 2.5E-03 | 2.2E+00 | 3.5E-11 | 1.3E-01 | 3.6E-01 | 3.4E-10 | 1.3E-03 | 1.0E-03 | | | | | 3.0E-01 | | |
| 6 | 1.6E+03 | 2.4E-04 | | 5.8E-01 | | | | | 1.5E-02 | 3.3E-03 | 1.9E+00 | 3.3E-11 | 4.3E-01 | 2.7E-02 | 1.9E+00 | 6.5E-10 | 9.9E-04 | | | | | 4.6E-03 | | |
| 7 | 4.3E+05 | 3.0E-01 | | 1.3E+02 | | | | | 4.9E+00 | 1.9E+00 | 8.3E-01 | 1.0E+03 | 1.7E+01 | 3.0E+00 | 3.7E+01 | 1.9E+02 | 3.0E-01 | 4.0E-01 | | | | 2.1E-01 | | |
| 8 | 4.4E+05 | 6.6E-02 | | 2.4E+02 | | | | | 1.6E+00 | 8.2E+00 | 1.2E+00 | 6.0E+02 | 1.5E+01 | 2.8E+02 | 6.4E+00 | 6.6E+01 | 6.2E+02 | 1.9E-01 | | | | 6.6E+01 | | |
| 9 | 1.8E+05 | 1.9E-01 | | 1.0E+02 | | | | | 3.4E-01 | 3.7E+00 | 4.9E-01 | 1.0E+02 | 6.2E+01 | 6.4E+00 | 6.6E+01 | 6.2E+02 | 1.9E-01 | 6.8E-01 | | | | 2.9E+01 | | |
| 10 | 6.5E+04 | 4.9E-02 | | 1.9E+01 | | | | | 7.7E-01 | 2.3E-01 | 1.2E-01 | 4.2E+00 | 7.8E+00 | 2.5E-03 | 6.9E+01 | 1.9E+03 | 4.7E-02 | 5.7E-02 | | | | 1.0E+01 | | |
| 11 | 3.4E+05 | 2.3E-01 | | 1.9E+02 | | | | | 1.1E+00 | 6.6E+00 | 9.4E-01 | 3.3E+02 | 1.3E+00 | 2.2E+02 | 9.1E+00 | 3.1E+02 | 1.6E+02 | 5.4E-01 | | | | 2.1E+01 | | |
| 12 | 1.8E+05 | 1.2E-01 | | 1.3E+02 | 4.2E+01 | | | | 3.6E+00 | 5.3E+00 | 7.3E+01 | 5.4E+00 | 1.8E+02 | 2.6E+00 | 3.2E+02 | 6.7E+01 | 3.7E-01 | 2.5E+01 | | | | 1.3E+00 | | |
| 13 | 7.1E+05 | 8.1E-01 | | 6.7E+02 | | | | | 2.9E+01 | 2.8E+00 | 1.4E+02 | 4.5E+02 | 9.8E+02 | 9.0E-01 | 2.3E+02 | 1.8E+04 | 3.6E-02 | 1.8E+00 | | | | 6.6E+00 | | |
| 14 | 5.8E+04 | 1.1E+00 | | 4.8E+01 | | | | | 7.6E-02 | 1.8E+00 | 2.2E-01 | 4.4E+01 | 6.4E+01 | 5.7E-03 | 3.1E+01 | 3.9E+02 | 2.7E-02 | 1.3E-01 | | | | 2.8E+00 | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 1.7E-02 | | 5.3E-03 | 1.8E+00 | 1.7E-02 | | | 5.0E-01 | 2.2E-02 | 4.4E-03 | 1.9E-02 | 4.1E-06 | 3.4E-02 | 1.1E+01 | 2.4E-02 | 2.5E-03 | 2.4E-02 | 2.3E-01 | | | 5.3E-01 | | |
| 19 | 2.2E+03 | 1.5E-03 | | 4.7E-01 | | | | | 3.2E-02 | 3.6E-03 | 5.4E+00 | 5.0E-05 | 8.7E-05 | 9.8E-01 | 3.0E-02 | 1.8E-03 | 1.5E-03 | | | | | 4.2E-01 | | |
| 21 | 1.3E+06 | 8.9E-01 | | 6.3E+02 | | | | | 7.1E+00 | 2.0E+01 | 5.1E+02 | 1.5E+01 | 6.6E+02 | 2.7E+01 | 2.9E-02 | 2.4E+03 | 6.6E-01 | 1.8E+00 | | | | 1.1E+02 | | |
| 22 | 1.2E+06 | 5.4E-02 | | 1.2E-01 | 2.9E+01 | 3.4E-01 | | | 4.1E-01 | 3.4E-02 | 6.7E-01 | 3.5E-01 | 2.0E-01 | 1.0E+00 | 5.2E+02 | 2.2E+02 | 2.2E+03 | 1.3E-01 | | | | 1.4E+00 | | |
| 23 | 1.3E+06 | 2.9E+00 | 1.1E+04 | | | | | | 6.9E-02 | 7.2E-03 | 1.5E+02 | 2.6E+00 | 9.5E-01 | 9.4E-01 | 4.8E+01 | 1.4E+02 | 6.7E+01 | 1.9E-01 | | | | 2.6E-01 | | |
| 24 | 1.0E+06 | 1.5E+00 | | 1.0E+03 | | | | | 4.6E-01 | 4.3E+00 | 2.0E+02 | 3.7E+02 | 1.5E+03 | 1.0E+01 | 4.6E+02 | 5.3E+03 | 2.8E+00 | | | | | 1.9E+02 | | |
| 25 | 8.3E+05 | 1.1E-01 | | 2.3E+00 | 4.6E+02 | 1.2E+01 | | | 1.2E+02 | 9.4E-01 | 2.8E-01 | 2.2E+02 | 6.7E+01 | 9.5E+00 | 1.7E+02 | 5.7E+03 | 7.5E+00 | 1.2E+01 | | | | 9.7E+01 | | |
| 26 | 1.2E+06 | 4.7E+00 | | 5.8E+01 | | | | | 7.0E+00 | 3.1E+00 | 2.7E+00 | 9.5E+01 | 1.1E+02 | 5.0E+02 | 1.9E+01 | 7.5E+01 | 8.2E+03 | 5.9E-01 | 1.2E+00 | | | 1.1E+02 | | |
| 27 | 4.3E+05 | 8.5E-01 | | 1.6E+01 | | | | | 6.9E-01 | 1.6E+00 | 4.5E+01 | 8.2E+01 | 5.3E+02 | 5.8E+00 | 1.6E+01 | 1.9E+02 | 4.9E-02 | 2.9E-01 | | | | 3.7E+00 | | |
| 28 | 5.0E+05 | 7.4E-01 | | 2.5E+01 | | | | | 1.1E+00 | 2.2E+00 | 1.8E+02 | 1.1E+02 | 8.4E+02 | 5.3E+00 | 1.9E+01 | 9.7E+03 | 4.6E-01 | | | | | 5.3E+00 | | |
| 29 | 5.1E+05 | 4.2E-01 | | 3.8E+01 | 2.8E+00 | 2.8E+00 | | | 1.5E+00 | 1.0E+00 | 8.2E+02 | 1.7E+01 | 7.3E+01 | 4.7E+00 | 4.0E+01 | 2.5E+03 | 3.8E-01 | 6.1E-01 | | | | 8.3E+01 | | |
| 30 | 1.1E+06 | 8.0E-01 | | 4.8E+01 | 1.6E-01 | | | | 4.0E-01 | 5.1E+00 | 7.1E+02 | 3.7E+02 | 2.0E+03 | 8.0E-01 | 8.0E+01 | 2.1E+03 | 1.2E-01 | | | | | 1.2E+01 | | |
| 31 | 4.6E+05 | 3.2E-01 | | 3.6E+02 | | | | | 1.5E+01 | 1.6E+00 | 9.5E+02 | 2.6E+02 | 5.0E+02 | 2.0E+01 | 2.1E+02 | 5.2E+03 | 9.7E-02 | 9.9E-01 | | | | 3.7E+00 | | |
| 32 | 7.5E+05 | 6.3E-01 | | 3.1E+01 | | | | | 3.1E-01 | 3.3E+00 | 3.7E+02 | 2.3E+02 | 1.1E+03 | 6.3E-01 | 4.3E+01 | 3.7E+03 | 4.0E-02 | 9.4E-02 | | | | 7.7E+00 | | |
| 33 | 7.8E+05 | 5.4E-01 | | 5.0E+02 | | | | | 1.8E+01 | 2.3E+00 | 1.7E+03 | 1.0E+02 | 6.2E+02 | 2.5E+01 | 3.6E+02 | 5.7E+03 | 2.8E-01 | 1.4E+00 | | | | 2.9E+01 | | |
| 34 | 9.7E+05 | 6.7E-01 | | 8.9E+02 | | | | | 3.9E+01 | 3.8E+00 | 1.9E+03 | 2.7E+02 | 1.3E+03 | 5.1E+01 | 4.6E+02 | 5.2E+03 | 7.3E-02 | 2.4E+00 | | | | 8.8E+00 | | |
| 35 | 1.1E+06 | 7.9E-01 | | 6.5E+02 | | | | | 2.8E+01 | 2.5E+00 | 2.5E+03 | 1.8E+02 | 7.6E+02 | 3.1E+01 | 5.2E+02 | 4.4E+03 | 4.9E-01 | 1.8E+00 | | | | 7.1E+01 | | |
| 36 | 5.5E+05 | 3.8E-01 | | 6.0E+02 | | | | | 2.8E+01 | 2.5E+00 | 1.0E+03 | 4.1E+02 | 9.3E+02 | 3.7E+01 | 2.6E+02 | 1.4E+04 | 1.6E+00 | | | | | 5.8E+00 | | |
| 37 | 4.4E+05 | 3.3E-01 | | 1.6E+02 | | | | | 2.8E+00 | 2.8E+00 | 9.5E-01 | 1.1E+03 | 2.5E+01 | 4.3E+00 | 2.1E+02 | 4.6E+02 | 3.2E-01 | 4.7E-01 | | | | 6.9E+01 | | |
| 38 | 4.9E+05 | 4.2E-01 | | 2.4E+01 | | | | | 1.1E+00 | 7.4E-01 | 1.4E+00 | 9.4E+02 | 5.4E+00 | 3.5E+02 | 9.8E+00 | 8.3E+01 | 1.1E+02 | 3.0E-01 | | | | 2.5E+01 | | |
| 39 | 9.3E+05 | 6.4E-01 | | 3.2E+02 | | | | | 9.2E-02 | 7.4E-01 | 1.4E+00 | 9.4E+02 | 5.4E+00 | 3.5E+02 | 9.8E+00 | 8.3E+01 | 1.1E+02 | 3.0E-01 | | | | 1.3E+02 | | |
| 40 | 5.4E+05 | 3.7E-01 | | 1.2E+02 | | | | | 7.6E+00 | 6.5E+00 | 8.8E-01 | 1.3E+03 | 4.2E+00 | 1.9E-01 | 2.4E+02 | 1.1E+02 | 4.3E-01 | 3.7E-01 | | | | 1.0E+02 | | |
| 41 | 5.7E+05 | 4.8E+00 | | 1.4E+00 | 2.4E+01 | 5.2E+00 | 5.4E-01 | | 6.5E+01 | 3.1E+00 | 1.1E+02 | 1.6E+00 | 3.1E+00 | 2.1E+01 | 1.6E+01 | 1.2E+03 | 1.8E+00 | 3.2E+01 | | | | 7.4E+01 | | |
| 42 | 1.1E+06 | 6.3E-01 | | 3.4E+02 | | | | | 1.4E+01 | 4.1E+00 | 2.2E+00 | 2.8E+03 | 1.8E+02 | 4.8E+02 | 6.9E+00 | 5.2E+02 | 1.7E+03 | 8.5E-01 | 1.0E+00 | | | 1.9E+02 | | |
| 43 | 5.6E+05 | 3.8E-01 | | 6.3E+02 | | | | | 3.7E+00 | 7.5E-01 | 2.2E+00 | 1.4E+03 | 7.5E+02 | 1.4E+02 | 1.8E+02 | 1.8E+02 | 3.9E-01 | 5.0E-01 | | | | 6.4E+01 | | |
| 44 | 4.8E+05 | 3.6E-01 | | 7.2E+02 | 6.8E+03 | 6.3E+01 | | | 2.9E+01 | 2.6E+00 | 1.0E+03 | 1.0E+02 | 9.8E+02 | 3.9E+01 | 2.7E+02 | 1.3E+04 | 2.6E+02 | 1.7E+00 | | | | 4.7E+00 | | |
| 45 | 4.8E+05 | 3.6E-01 | | 6.3E+02 | | | | | 7.0E-01 | 1.3E+00 | 7.2E+01 | 1.1E+02 | 1.1E+02 | 9.3E+01 | 2.4E+02 | 1.3E+04 | 2.6E+02 | 9.3E+01 | | | | 3.2E+02 | | |
| 46 | 4.5E+05 | 3.1E-01 | | 6.3E+02 | | | | | 3.0E+01 | 2.5E+00 | 7.7E+02 | 1.6E+02 | 1.0E+03 | 4.0E+01 | 2.2E+02 | 5.8E+03 | 1.7E+00 | | | | | 6.0E+00 | | |
| 47 | 6.3E+05 | 4.3E-01 | | 6.3E+02 | | | | | 2.8E+01 | 2.6E+00 | 1.2E+03 | 1.6E+02 | 9.5E+02 | 3.7E+01 | 3.0E+02 | 2.4E+03 | 1.7E+00 | | | | | 6.2E+00 | | |
| 48 | 2.3E+05 | 1.7E-02 | | 4.2E+00 | 9.4E+02 | 3.2E+00 | 5.1E+01 | | 6.4E+01 | 2.0E-02 | 6.4E+01 | 3.7E+00 | 1.6E+02 | 1.0E+01 | 1.6E+02 | 2.4E+03 | 1.9E+01 | 7.2E+00 | | | | 1.4E-02 | | |
| 49 | 2.6E+05 | 2.0E+01 | | 7.5E+03 | 8.5E+00 | 2.5E+00 | 2.3E-01 | | 2.7E+00 | 2.8E-01 | 5.9E+01 | 1.1E+00 | 3.9E+00 | 6.5E+00 | 2.1E+02 | 2.1E+02 | 2.0E+00 | 2.8E+00 | | | | 8.1E+00 | | |
| 50 | 9.8E+05 | 4.5E+00 | | 4.4E-01 | 6.6E+01 | 1.1E+00 | 5.5E-01 | | 9.6E+00 | 1.9E+00 | 3.8E-01 | 1.5E+02 | 1.4E+00 | 1.8E+00 | 4.1E+02 | 3.8E+01 | 4.7E+02 | 1.1E+02 | | | | 2.2E+01 | | |
| 51 | 4.0E+05 | 2.8E-01 | | 1.2E+02 | | | | | 6.9E+00 | 1.9E+00 | 7.7E-01 | 1.6E+02 | 1.8E+01 | 6.5E+01 | 3.0E+00 | 1.8E+02 | 3.2E+02 | 2.8E-01 | 3.7E-01 | | | | 6.1E+01 | |
| Phase Totals | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.6E+07 | 5.6E+01 | 3.2E+04 | 1.1E+04 | 8.4E+03 | 9.4E+01 | 5.4E+01 | 3.3E+03 | 3.9E+02 | 6.9E+01 | 2.8E+04 | 4.3E+03 | 1.9E+04 | 1.4E+03 | 7.7E+03 | 1.6E+05 | 3.7E+02 | 4.5E+02 | 6.7E+02 | 2.0E+03 | 5.2E+02 | 7.7E+02 | | |

Table A-13: Total Liquid Phase Non-Radioactive Inventory, Continued

| Tank | Total Supernate Volume, gal | Ru (kg) | Se (kg) | Si (kg) | Sr (kg) | Ti (kg) | TPB (kg) | U (kg) | Zn (kg) | Zr (kg) | AlOH4 (kg) | Cl (kg) | CO3 (kg) | C2O4 (kg) | F (kg) | Na (kg) | NO2 (kg) | NO3 (kg) | OH (kg) | PO4 (kg) | SO4 (kg) | |
|--------------|-----------------------------|---------|---------|---------|---------|---------|----------|---------|---------|---------|------------|---------|----------|-----------|---------|---------|----------|----------|---------|----------|----------|---------|
| 1 | 1.5E+05 | 5.2E+01 | 3.2E+02 | | | | | | 3.9E+02 | 1.4E+01 | 4.3E+04 | 5.6E+02 | 5.3E+03 | 4.4E+02 | 1.8E+02 | 2.1E+05 | 8.0E+04 | 7.9E+04 | 1.0E+05 | 1.6E+03 | 3.5E+02 | |
| 2 | 1.6E+05 | 4.0E+01 | 3.6E+02 | | | | | | 3.0E+02 | 1.1E+01 | 6.2E+04 | 4.8E+02 | 5.6E+03 | 3.7E+02 | 1.5E+02 | 2.0E+05 | 8.7E+04 | 8.7E+04 | 7.6E+04 | 7.6E+04 | 3.4E+03 | 3.2E+02 |
| 3 | 2.9E+05 | 3.8E+01 | 3.7E+02 | | | | | | 2.9E+02 | 1.0E+01 | 1.8E+04 | 5.3E+03 | 5.3E+03 | 4.5E+03 | 8.9E+02 | 2.0E+05 | 6.5E+04 | 6.6E+04 | 7.2E+04 | 4.4E+03 | 2.2E+03 | |
| 4 | 2.9E+05 | 1.3E+01 | 8.5E+02 | | 1.9E+01 | | | | 1.2E+02 | 2.5E+00 | 3.8E+03 | 7.9E+01 | 9.5E+03 | 1.9E+03 | 7.4E+01 | 1.0E+05 | 2.0E+04 | 2.4E+04 | 1.8E+04 | 2.2E+02 | 1.1E+04 | |
| 5 | 1.6E+03 | 2.5E+02 | 5.0E+00 | | 1.3E+01 | | | | 3.0E+01 | 6.9E+09 | 5.7E+09 | 3.1E+08 | 3.1E+08 | 1.2E+09 | 4.4E+10 | 6.5E+08 | 3.8E+08 | 5.5E+08 | 1.5E+08 | 3.1E+09 | 3.9E+09 | |
| 6 | 1.6E+03 | 1.0E+01 | 4.6E+00 | 6.7E+02 | 8.5E+02 | | | | 8.6E+01 | 2.3E+02 | 2.1E+08 | 1.4E+09 | 6.7E+08 | 1.2E+09 | 4.4E+10 | 6.7E+02 | 7.3E+08 | 7.1E+08 | 1.6E+02 | 1.4E+09 | 6.1E+09 | |
| 7 | 4.3E+05 | 2.0E+01 | 1.3E+03 | 2.5E+01 | 2.8E+01 | | | | 1.8E+02 | 3.8E+00 | 5.5E+03 | 1.1E+02 | 1.3E+04 | 2.5E+03 | 1.1E+02 | 1.2E+05 | 2.9E+04 | 3.5E+04 | 2.7E+04 | 3.1E+02 | 1.5E+04 | |
| 8 | 4.4E+05 | 5.3E+01 | 1.2E+03 | 1.8E+01 | 1.1E+01 | | | | 4.1E+02 | 1.3E+01 | 1.4E+05 | 3.9E+02 | 4.0E+04 | 7.8E+02 | 1.9E+02 | 3.1E+05 | 9.7E+04 | 1.3E+05 | 9.4E+04 | 7.8E+02 | 4.1E+03 | |
| 9 | 1.8E+05 | 2.3E+01 | 4.4E+02 | | 2.7E+00 | | | | 1.8E+02 | 5.9E+00 | 9.7E+04 | 6.6E+02 | 3.8E+03 | 3.8E+02 | 2.4E+01 | 1.6E+05 | 9.4E+04 | 1.7E+05 | 4.1E+04 | 3.0E+03 | 1.2E+03 | |
| 10 | 6.5E+04 | 2.7E+00 | 2.0E+02 | | 4.4E+00 | | | | 2.5E+01 | 4.9E+01 | 3.8E+04 | 2.5E+02 | 1.5E+03 | 1.5E+02 | 9.4E+00 | 4.7E+04 | 4.1E+03 | 5.9E+04 | 3.5E+03 | 1.2E+03 | 4.7E+02 | |
| 11 | 3.4E+05 | 4.3E+01 | 9.1E+02 | 5.2E+04 | 7.5E+00 | | | | 3.3E+02 | 1.1E+01 | 9.2E+02 | 1.5E+03 | 1.6E+04 | 6.5E+02 | 2.1E+01 | 1.9E+04 | 2.2E+04 | 1.4E+04 | 7.5E+04 | 6.5E+02 | 2.5E+03 | |
| 12 | 1.8E+05 | 3.2E+01 | 4.4E+02 | 7.6E+00 | | | | | 2.4E+02 | 8.3E+00 | 8.7E+02 | 1.0E+02 | 1.3E+04 | 1.1E+02 | 6.1E+01 | 5.2E+04 | 4.6E+04 | 4.0E+04 | 5.8E+04 | 2.0E+02 | 2.0E+03 | |
| 13 | 7.1E+05 | 1.7E+02 | 1.6E+03 | | | | | | 1.3E+03 | 4.5E+01 | 2.0E+04 | 2.6E+03 | 8.1E+03 | 3.1E+03 | 1.3E+03 | 8.2E+05 | 3.0E+05 | 2.6E+05 | 3.2E+05 | 7.7E+03 | 5.9E+03 | |
| 14 | 5.8E+04 | 1.1E+01 | 1.9E+02 | | 7.9E+01 | | | | 8.4E+01 | 2.8E+00 | 1.8E+04 | 9.8E+01 | 3.4E+03 | 1.7E+02 | 7.0E+01 | 7.0E+04 | 3.8E+04 | 6.5E+04 | 2.0E+04 | 4.3E+02 | 2.5E+02 | |
| 16 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 4.5E+02 | 5.5E+03 | 2.7E+01 | 1.1E+01 | 6.6E+03 | | 2.9E+01 | 6.1E+02 | 1.3E+02 | 7.6E+02 | 6.8E+04 | 5.1E+01 | 2.1E+02 | 2.9E+02 | 1.2E+03 | 1.9E+01 | 1.1E+01 | 1.9E+00 | 1.4E+03 | 2.4E+02 | |
| 19 | 1.2E+02 | 6.9E+00 | | | 1.8E+01 | | | | 4.7E+01 | 1.8E+03 | 9.2E+01 | 5.3E+02 | 6.1E+00 | 2.5E+01 | 3.5E+01 | 9.3E+02 | 8.8E+00 | 1.2E+01 | 1.4E+01 | 1.6E+02 | 2.7E+00 | |
| 21 | 1.3E+06 | 1.3E+02 | 2.6E+00 | 5.5E+01 | 4.5E+01 | | | 1.3E+02 | 1.1E+03 | 3.0E+01 | 4.0E+04 | 7.1E+02 | 4.5E+04 | 2.4E+03 | 2.4E+03 | 9.3E+05 | 1.9E+05 | 7.9E+05 | 2.3E+05 | 2.4E+03 | 3.0E+04 | |
| 22 | 1.2E+06 | 2.4E+01 | 2.5E+01 | 5.0E+02 | 2.2E+01 | 8.0E+02 | 4.5E+01 | | 4.7E+01 | 1.6E+01 | 4.2E+03 | 4.8E+02 | 5.5E+03 | 9.2E+02 | 8.7E+02 | 1.5E+04 | 3.0E+04 | 1.9E+04 | 1.2E+04 | 8.9E+02 | 2.0E+04 | |
| 23 | 1.3E+06 | 6.0E+01 | 3.1E+01 | 5.7E+02 | 6.4E+00 | 1.3E+01 | 1.1E+00 | 2.8E+01 | 4.9E+01 | 8.5E+01 | 4.5E+03 | 8.9E+02 | 6.8E+04 | 4.8E+02 | 2.5E+02 | 3.1E+05 | 3.5E+04 | 2.1E+04 | 9.4E+03 | 4.7E+02 | 4.7E+02 | |
| 24 | 1.0E+06 | 2.6E+02 | 2.2E+03 | 4.6E+02 | | | | 1.1E+02 | 2.0E+03 | 7.1E+01 | 7.7E+04 | 1.5E+03 | 3.5E+03 | 9.0E+03 | 4.7E+02 | 7.4E+05 | 3.7E+05 | 3.5E+05 | 5.0E+05 | 5.7E+03 | 3.1E+03 | |
| 25 | 8.3E+05 | 6.8E+02 | 2.4E+00 | 3.5E+01 | 5.0E+00 | 5.4E+00 | | | 9.9E+01 | 2.0E+01 | 4.0E+04 | 1.1E+03 | 4.4E+04 | 1.6E+03 | 3.4E+02 | 4.2E+05 | 1.2E+05 | 3.0E+05 | 1.0E+05 | 1.6E+03 | 2.0E+04 | |
| 26 | 1.2E+06 | 1.0E+02 | 3.6E+02 | 4.7E+01 | 4.3E+01 | | | | 8.3E+02 | 2.5E+01 | 5.5E+04 | 1.5E+03 | 6.4E+04 | 2.0E+03 | 4.6E+02 | 9.0E+05 | 1.9E+05 | 4.9E+05 | 1.7E+05 | 2.2E+03 | 2.7E+04 | |
| 27 | 4.3E+05 | 9.2E+01 | 1.0E+02 | 3.1E+01 | | | | | 7.0E+02 | 2.5E+01 | 2.3E+03 | 5.6E+01 | 1.6E+04 | 7.2E+02 | 8.1E+00 | 4.3E+05 | 1.4E+05 | 1.6E+05 | 1.7E+05 | 2.5E+03 | 9.2E+02 | |
| 28 | 5.0E+05 | 1.4E+02 | 2.0E+02 | 1.4E+03 | | | | | 1.1E+03 | 3.9E+01 | 9.2E+04 | 1.4E+03 | 4.6E+03 | 1.1E+03 | 4.7E+02 | 5.4E+05 | 1.5E+05 | 2.0E+05 | 2.7E+05 | 4.3E+03 | 1.4E+03 | |
| 29 | 5.3E+05 | 2.4E+01 | 4.8E+02 | 2.8E+01 | 3.5E+01 | | | 1.6E+00 | 2.1E+02 | 4.4E+00 | 3.7E+04 | 5.8E+02 | 2.3E+04 | 2.7E+02 | 1.7E+02 | 2.0E+05 | 4.1E+04 | 6.7E+04 | 3.1E+04 | 1.6E+03 | 6.7E+03 | |
| 30 | 1.1E+06 | 3.4E+02 | 4.6E+02 | 1.6E+02 | | | | | 2.5E+03 | 9.2E+01 | 3.6E+04 | 8.2E+02 | 1.4E+04 | 2.3E+03 | 5.4E+02 | 1.3E+06 | 3.8E+05 | 3.9E+05 | 6.5E+05 | 6.5E+03 | 3.0E+03 | |
| 31 | 4.6E+05 | 8.8E+01 | 1.1E+03 | | | | | | 6.7E+02 | 2.3E+01 | 1.4E+05 | 6.1E+02 | 5.2E+03 | 1.0E+03 | 4.3E+02 | 5.0E+05 | 2.2E+05 | 2.2E+05 | 1.6E+05 | 3.6E+03 | 2.7E+03 | |
| 32 | 7.5E+05 | 2.0E+02 | 2.7E+02 | 1.2E+02 | | | | 3.1E+01 | 1.5E+03 | 3.5E+01 | 1.4E+04 | 1.2E+03 | 1.4E+04 | 2.2E+03 | 4.5E+02 | 1.0E+06 | 2.7E+05 | 3.1E+05 | 2.7E+05 | 2.7E+03 | 2.2E+03 | |
| 33 | 7.8E+05 | 1.1E+02 | 2.0E+03 | 4.1E+01 | 8.0E+00 | | | | 8.8E+02 | 2.9E+01 | 7.6E+04 | 9.1E+02 | 6.3E+04 | 1.5E+03 | 4.5E+02 | 5.8E+05 | 1.2E+05 | 2.2E+05 | 2.1E+05 | 2.6E+03 | 2.8E+04 | |
| 34 | 9.7E+05 | 2.2E+02 | 2.2E+03 | 7.2E+01 | | | | | 1.7E+03 | 6.0E+01 | 4.3E+04 | 2.0E+03 | 3.2E+04 | 5.7E+02 | 2.8E+02 | 1.1E+06 | 3.5E+05 | 4.9E+05 | 4.2E+05 | 5.5E+03 | 5.1E+03 | |
| 35 | 1.1E+06 | 1.4E+02 | 3.1E+03 | 6.1E+01 | 2.5E+01 | | | | 1.1E+03 | 3.6E+01 | 1.2E+05 | 5.2E+02 | 7.8E+04 | 2.1E+03 | 3.8E+02 | 1.0E+06 | 3.0E+05 | 7.9E+05 | 2.6E+05 | 7.9E+03 | 2.0E+04 | |
| 36 | 5.5E+05 | 1.6E+02 | 1.1E+03 | | | | | | 1.2E+03 | 4.3E+01 | 2.0E+03 | 1.4E+03 | 9.9E+03 | 1.2E+03 | 5.1E+02 | 6.2E+05 | 2.0E+05 | 2.0E+05 | 3.0E+05 | 6.1E+03 | 8.3E+02 | |
| 37 | 4.4E+05 | 2.6E+01 | 1.4E+03 | 4.6E+01 | 2.9E+01 | | | 1.6E+02 | 5.1E+02 | 1.7E+01 | 1.5E+03 | 3.5E+02 | 5.2E+04 | 3.1E+02 | 2.0E+02 | 3.4E+05 | 1.8E+05 | 1.5E+05 | 1.2E+05 | 7.7E+02 | 5.6E+03 | |
| 38 | 4.9E+05 | 6.6E+01 | 4.2E+02 | 3.3E+02 | 8.2E+00 | | | | 2.2E+02 | 5.3E+00 | 5.6E+03 | 1.5E+02 | 1.3E+04 | 2.3E+03 | 1.2E+02 | 6.7E+05 | 3.4E+04 | 4.0E+04 | 3.8E+04 | 3.3E+02 | 1.3E+04 | |
| 39 | 9.3E+05 | 5.6E+01 | 2.7E+03 | 4.0E+01 | 5.4E+01 | | | | 4.7E+02 | 1.2E+01 | 6.9E+04 | 8.1E+02 | 3.5E+04 | 4.4E+03 | 3.4E+02 | 4.7E+05 | 5.7E+04 | 4.5E+05 | 8.4E+04 | 4.4E+03 | 2.4E+04 | |
| 40 | 5.4E+05 | 1.1E+01 | 1.7E+03 | | 4.3E+01 | | | | 1.2E+02 | 6.2E+01 | 3.6E+03 | 8.9E+01 | 6.1E+03 | 2.3E+03 | 5.7E+01 | 2.9E+04 | 1.8E+04 | 1.2E+04 | 4.6E+03 | 2.3E+02 | 3.3E+03 | |
| 41 | 5.7E+05 | 1.5E+01 | 1.6E+00 | 2.4E+01 | 1.3E+01 | 2.2E+00 | | | 2.8E+00 | 4.0E+00 | 9.3E+04 | 1.1E+03 | 2.9E+04 | 5.4E+02 | 1.1E+03 | 2.2E+05 | 1.6E+04 | 2.7E+05 | 1.1E+04 | 3.3E+03 | 1.9E+04 | |
| 42 | 1.2E+06 | 4.9E+01 | 3.5E+03 | 5.0E+01 | 8.0E+01 | | | | 4.4E+02 | 8.8E+00 | 2.3E+04 | 5.8E+02 | 2.6E+04 | 2.1E+03 | 5.0E+02 | 1.0E+06 | 8.4E+04 | 1.4E+05 | 6.3E+04 | 6.7E+02 | 2.4E+04 | |
| 43 | 1.1E+06 | 9.3E+01 | 6.3E+02 | 4.8E+02 | 2.4E+01 | | | 2.1E+02 | 7.3E+02 | 2.3E+01 | 2.5E+04 | 5.2E+02 | 4.5E+04 | 4.9E+02 | 3.5E+02 | 5.0E+05 | 2.5E+05 | 1.1E+05 | 1.6E+05 | 9.6E+02 | 7.6E+03 | |
| 44 | 5.6E+05 | 1.7E+02 | 1.1E+03 | | | | | | 1.2E+03 | 4.5E+01 | 7.6E+04 | 1.8E+03 | 2.5E+04 | 1.3E+03 | 5.2E+02 | 6.0E+05 | 3.3E+05 | 1.3E+05 | 1.8E+05 | 2.4E+03 | 8.5E+02 | |
| 45 | 4.8E+05 | 4.7E+01 | 7.5E+02 | 1.6E+02 | 4.2E+02 | 2.5E+01 | | | 5.1E+01 | 1.3E+00 | 1.7E+05 | 1.4E+03 | 8.9E+04 | 1.1E+03 | 3.0E+02 | 5.5E+05 | 1.2E+05 | 1.3E+05 | 3.8E+05 | 1.2E+03 | 6.0E+02 | |
| 46 | 4.5E+05 | 1.6E+02 | 7.4E+02 | 5.9E+01 | | | | | 1.3E+03 | 4.7E+01 | 4.5E+04 | 1.1E+03 | 1.3E+04 | 8.4E+02 | 3.3E+02 | 5.3E+05 | 1.5E+05 | 1.3E+05 | 3.3E+05 | 2.3E+03 | 9.1E+02 | |
| 47 | 6.3E+05 | 1.6E+02 | 1.3E+03 | 6.7E+01 | | | | | 1.2E+03 | 4.4E+01 | 2.5E+04 | 1.5E+03 | 2.7E+04 | 1.2E+03 | 1.8E+02 | 6.9E+05 | 2.2E+05 | 2.6E+05 | 2.1E+05 | 3.9E+03 | 4.8E+02 | |
| 48 | 2.3E+05 | 3.5E+01 | 4.4E+00 | 1.2E+02 | 8.2E+00 | 7.7E+02 | 1.9E+04 | 4.9E+00 | 1.1E+01 | 1.4E+00 | 3.4E+02 | 2.7E+04 | 1.5E+03 | 1.5E+03 | 1.3E+01 | 8.1E+04 | 2.0E+04 | 1.2E+04 | 2.1E+04 | 8.4E+02 | 3.8E+02 | |
| 49 | 2.6E+05 | 2.7E+01 | 1.2E+00 | 1.5E+02 | 9.3E+00 | 8.8E+00 | 6.0E+00 | 3.9E+02 | 2.1E+01 | 5.0E+00 | 8.7E+03 | 4.1E+02 | 1.2E+04 | 4.1E+02 | 4.1E+02 | 1.3E+05 | 1.0E+04 | 1.5E+05 | 6.6E+04 | 6.5E+02 | 9.4E+03 | |
| 50 | 9.8E+05 | 5.9E+01 | 8.8E+01 | 1.9E+02 | 3.4E+01 | | 1.8E+01 | | 5.0E+02 | 1.3E+01 | 3.7E+04 | 9.2E+02 | 3.3E+04 | 2.5E+03 | 9.2E+02 | 3.2E+05 | 2.6E+04 | 4.7E+05 | 8.1E+04 | 3.0E+03 | 2.6E+04 | |
| 51 | 4.0E+05 | 1.1E+01 | 1.2E+03 | 4.3E+00 | 2.6E+01 | | | | 1.7E+02 | 3.8E+00 | 4.9E+03 | 1.0E+02 | 1.2E+04 | 2.1E+03 | 1.0E+02 | 6.7E+04 | 2.5E+04 | 3.1E+04 | 2.7E+04 | 2.7E+02 | 1.2E+04 | |
| Phase Totals | 2.6E+07 | 3.5E+03 | 3.7E+04 | 5.3E+03 | 9.6E+02 | 8.2E+02 | 1.9E+04 | 1.0E+03 | 2.6E+04 | 8.9E+02 | 1.8E+06 | 3.5E+04 | 1.1E+06 | 6.8E+04 | 1.7E+04 | 1.9E+07 | 5.4E+06 | 8.6E+06 | 6.8E+06 | 1.1E+05 | 3.5E+05 | |

Table A-14: Free Supernatant Phase Non-Radioactive Inventory

| Tank | Free Supernatant Volume, gal | Ag (kg) | Al (kg) | As ₂ (kg) | B (kg) | Ba (kg) | Benzene (kg) | Ca (kg) | Cd (kg) | Co (kg) | Cr (kg) | Cs (kg) | Cu (kg) | Fe (kg) | Hg (kg) | K (kg) | Mg (kg) | Mn (kg) | Mo (kg) | Nd (kg) | Ni (kg) | Pb (kg) |
|------|------------------------------|---------|---------|----------------------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 8.1E+02 | 1.0E-02 | | 1.1E+00 | | | | | 5.1E-02 | 4.4E-03 | 1.4E+00 | 9.2E-01 | 1.7E+00 | 9.6E-02 | 1.0E-01 | 2.7E+01 | | 2.9E-03 | | | | 1.0E-02 |
| 2 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | 1.9E-01 | | 8.5E+01 | 2.9E+01 | | | 9.3E+00 | 1.2E+00 | 5.4E-01 | 4.4E+02 | 1.0E+01 | 4.1E+01 | 1.9E+00 | 1.3E+01 | 2.3E+02 | 2.0E-01 | 2.6E-01 | 7.4E+01 | 4.3E+01 | 1.1E+00 | |
| 5 | 5.4E-02 | 1.0E-04 | | 6.2E-02 | | | | 3.9E-03 | 4.2E-04 | 3.7E-01 | 5.9E-12 | | | 2.2E-02 | 6.1E-02 | 5.7E-11 | 2.2E-04 | 1.7E-04 | | 5.1E-02 | 7.8E-04 | |
| 6 | 1.7E+02 | 2.5E-05 | | 6.2E-02 | | | | 1.6E-03 | 1.4E-03 | 3.6E-04 | 2.0E-01 | 3.4E-12 | 4.6E-02 | 2.8E-03 | 2.0E-01 | 7.0E-11 | 1.1E-04 | 1.8E-04 | | 2.2E-02 | 7.3E-04 | |
| 7 | 4.1E+05 | 2.9E-01 | | 1.3E+02 | | | | 4.7E+00 | 1.8E+00 | 7.9E-01 | 9.7E+02 | 1.6E+01 | 6.2E+01 | 2.9E+00 | 1.8E+02 | 3.4E+02 | 2.9E-01 | 3.8E-01 | | 6.4E+01 | 1.6E+00 | |
| 8 | 4.2E+05 | 6.4E-02 | | 2.3E+02 | | | | 1.5E+00 | 8.0E+00 | 1.2E+00 | 5.8E+02 | 1.5E+01 | 2.7E+02 | 6.3E+00 | 6.4E+01 | 6.0E+02 | 1.9E-01 | 6.6E-01 | | 2.8E+01 | 2.5E+00 | |
| 9 | 1.3E+04 | 1.4E-02 | | 7.6E+00 | | | | 2.5E-02 | 2.7E-01 | 3.6E-02 | 7.4E+00 | 4.6E+00 | 9.2E+00 | 4.8E-04 | 6.2E+00 | 3.7E+02 | 5.0E-03 | 2.1E-02 | | 6.2E-01 | 8.0E-02 | |
| 10 | | | | | | | | 1.1E+00 | 6.5E+00 | 9.2E-01 | 3.3E+02 | 1.2E+00 | 2.2E+02 | 8.9E+00 | 3.0E+02 | 1.6E+02 | 1.4E-01 | 5.3E-01 | | 2.1E+01 | 2.0E+00 | |
| 11 | 3.3E+05 | 2.3E-01 | | 1.9E+02 | | | | 3.4E+00 | 5.0E+00 | 5.6E-01 | 6.9E+01 | 5.1E+00 | 1.7E+02 | 2.5E+00 | 2.2E+02 | 6.3E+01 | 3.5E-01 | 3.4E-01 | | 2.1E-01 | 1.3E+00 | |
| 12 | 1.7E+05 | 1.2E-01 | | 4.9E+02 | | | | 2.1E+01 | 2.1E+00 | 1.0E+02 | 3.3E+02 | 7.1E+02 | 7.1E+02 | 6.6E-01 | 2.4E+02 | 1.3E+04 | 2.6E-02 | 1.3E+00 | | 2.3E+01 | 4.8E+00 | |
| 13 | 5.2E+05 | 5.9E-01 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 8.7E+02 | 6.0E-04 | | 1.8E-01 | | | | 1.2E-02 | 1.9E+01 | 2.1E+00 | 1.9E-05 | | | 3.4E-05 | 3.8E-01 | 1.2E-02 | 6.9E-04 | 5.9E-04 | | 1.6E-01 | 2.6E-03 | |
| 20 | 1.3E+06 | 8.7E-01 | | 6.2E+02 | | | | 6.9E+00 | 3.2E+00 | 4.9E+02 | 1.5E+01 | | 6.4E+02 | 2.6E+01 | 2.9E+02 | 2.3E+03 | 6.4E-01 | 1.8E+00 | | 1.1E+02 | 6.8E+00 | |
| 21 | 1.1E+06 | 5.2E-02 | | 1.2E-01 | 2.8E+01 | | | 5.9E+00 | 3.9E-01 | 3.2E-02 | 6.4E-01 | 3.4E-01 | 1.9E-01 | 9.6E-01 | 4.9E+02 | 2.1E+02 | 8.3E-02 | 1.2E-01 | 1.4E+00 | 2.1E+02 | 9.7E-01 | 2.3E+00 |
| 22 | 1.2E+06 | 2.7E+00 | 1.0E+04 | | 6.8E+00 | | | 4.6E-02 | 6.7E-03 | 1.4E+02 | 2.4E+00 | 8.8E-01 | 8.7E+01 | 4.5E+01 | 1.3E+02 | 6.2E+01 | 6.2E+01 | 1.8E-01 | 2.4E-01 | 1.8E+02 | 8.2E+00 | 1.3E+00 |
| 23 | 1.0E+06 | 1.5E+00 | | 1.0E+03 | | | | 4.6E+01 | 4.3E+00 | 2.0E+02 | 3.7E+02 | 3.7E+02 | 1.5E+03 | 9.9E+00 | 4.6E+02 | 5.3E+03 | 2.8E+00 | | | | 1.0E+01 | |
| 24 | 6.8E+05 | 8.9E-02 | | 1.9E+00 | 3.7E+02 | | | 9.5E+01 | 7.7E-01 | 2.3E-01 | 1.8E+02 | 5.5E+01 | 7.8E+00 | 1.4E+02 | 2.6E+00 | 4.6E+03 | 6.1E+00 | 9.7E+00 | 2.1E+02 | 8.0E+01 | 7.4E-01 | 9.2E+00 |
| 25 | 9.6E+05 | 3.9E+00 | | 4.8E+01 | | | | 5.8E+00 | 2.6E+00 | 2.2E+00 | 7.9E+01 | 8.9E+01 | 4.1E+02 | 1.6E+01 | 6.2E+01 | 6.8E+03 | 4.9E-01 | 9.9E-01 | | 8.9E+01 | 4.7E+00 | 1.2E+02 |
| 26 | 8.3E+04 | 1.6E-01 | | 3.1E+00 | | | | 4.2E-01 | 1.3E-01 | 3.0E-01 | 8.6E+00 | 1.6E+01 | 1.0E+02 | 1.1E+00 | 3.1E+00 | 3.7E+01 | 9.4E-03 | 5.5E-02 | | 7.1E-01 | 7.3E+00 | |
| 27 | 2.0E+05 | 2.9E-01 | | 9.6E+00 | | | | 2.6E+00 | 4.2E-01 | 8.7E-01 | 6.9E+01 | 4.2E+01 | 3.2E+02 | 2.1E+00 | 7.4E+00 | 3.8E+03 | 1.6E-01 | 2.6E-01 | | 3.5E+01 | 8.4E-01 | 4.4E+01 |
| 28 | 2.3E+05 | 1.8E-01 | | 1.6E+01 | | | | 3.7E-01 | 3.7E-01 | 4.7E+00 | 6.5E+02 | 3.4E+02 | 1.8E+03 | 1.3E+00 | 7.3E-01 | 1.9E+03 | 1.6E-01 | 1.1E-01 | | 1.1E+01 | 7.3E+01 | |
| 29 | 9.7E+05 | 7.3E-01 | | 4.4E+01 | | | | 3.7E-01 | 3.7E-01 | 4.7E+00 | 6.5E+02 | 3.4E+02 | 1.8E+03 | 1.3E+00 | 7.3E-01 | 1.9E+03 | 1.6E-01 | 1.1E-01 | | 1.1E+01 | 7.3E+01 | |
| 30 | 1.2E+05 | 8.0E-02 | | 9.1E+01 | | | | 3.7E-01 | 3.7E-01 | 4.7E+00 | 6.5E+02 | 3.4E+02 | 1.8E+03 | 1.3E+00 | 7.3E-01 | 1.9E+03 | 1.6E-01 | 1.1E-01 | | 1.1E+01 | 7.3E+01 | |
| 31 | 6.3E+05 | 5.3E-01 | | 2.7E+01 | | | | 6.1E-01 | 1.5E-01 | 1.9E+00 | 1.4E+03 | 8.5E+01 | 5.1E+02 | 2.1E+01 | 2.9E+02 | 4.7E+03 | 3.3E-01 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | 5.0E+01 |
| 32 | 6.4E+05 | 4.4E-01 | | 4.1E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 33 | 9.0E+05 | 6.2E-01 | | 8.3E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 34 | 1.1E+06 | 7.5E-01 | | 6.1E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 35 | 2.3E+05 | 1.6E-01 | | 2.6E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 36 | 1.1E+05 | 8.7E-02 | | 4.2E+01 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 37 | 2.4E+05 | 2.1E-01 | | 1.2E+01 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 38 | 8.4E+05 | 5.8E-01 | | 2.9E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 39 | 1.0E+05 | 7.2E-02 | | 2.2E+01 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 40 | 3.9E+05 | 3.3E+00 | | 9.7E-01 | 1.6E+01 | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 41 | 1.2E+06 | 8.1E-01 | | 3.4E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 42 | 9.7E+05 | 5.3E-01 | | 2.7E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 43 | 2.5E+05 | 1.8E-01 | | 2.9E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 44 | 1.5E+05 | 1.1E-01 | | 2.3E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 45 | 1.0E+05 | 7.0E-02 | | 1.4E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 46 | 2.2E+05 | 1.5E-01 | | 2.2E+02 | | | | 3.4E+00 | 2.1E+01 | 3.0E+00 | 2.4E+02 | 2.0E+02 | 9.7E+02 | 5.3E-01 | 3.7E+01 | 3.1E+03 | 3.4E-02 | 8.0E-02 | | 2.4E+01 | 4.3E+00 | |
| 47 | 2.4E+05 | 1.9E-02 | | 2.3E+03 | 3.4E+00 | | | 3.4E+00 | 2.1E-02 | 1.0E+01 | 9.4E-01 | 4.3E+02 | 5.8E+01 | 3.4E+02 | 1.3E+01 | 1.1E+02 | 8.5E+02 | 6.1E-01 | | 2.2E+00 | | |
| 48 | 2.6E+05 | 2.0E-01 | | 8.5E+00 | 2.5E+00 | | | 3.4E+00 | 2.1E-02 | 1.0E+01 | 9.4E-01 | 4.3E+02 | 5.8E+01 | 3.4E+02 | 1.3E+01 | 1.1E+02 | 8.5E+02 | 6.1E-01 | | 2.2E+00 | | |
| 49 | 9.8E+05 | 4.5E+00 | | 1.2E+04 | 6.6E+01 | | | 3.4E+00 | 2.1E-02 | 1.0E+01 | 9.4E-01 | 4.3E+02 | 5.8E+01 | 3.4E+02 | 1.3E+01 | 1.1E+02 | 8.5E+02 | 6.1E-01 | | 2.2E+00 | | |
| 50 | 2.6E+05 | 1.8E-01 | | 8.0E+01 | | | | 3.4E+00 | 2.1E-02 | 1.0E+01 | 9.4E-01 | 4.3E+02 | 5.8E+01 | 3.4E+02 | 1.3E+01 | 1.1E+02 | 8.5E+02 | 6.1E-01 | | 2.2E+00 | | |
| 51 | 2.0E+07 | 4.5E+01 | 3.1E+04 | 6.9E+03 | 3.7E+03 | 4.5E+01 | 5.8E+01 | 1.9E+03 | 2.3E+02 | 4.7E+01 | 2.0E+04 | 2.7E+03 | 1.2E+04 | 1.1E+03 | 5.6E+03 | 8.7E+04 | | | | | | |

Table A-14: Free Supernatant Phase Non-Radioactive Inventory, Continued

| Tank | Free Supernatant Volume, gal | Ru (kg) | Se (kg) | Si (kg) | Sr (kg) | Ti (kg) | TPB (kg) | U (kg) | Zn (kg) | Zr (kg) | AlOH4 (kg) | Cl (kg) | CO3 (kg) | C2O4 (kg) | F (kg) | Na (kg) | NO2 (kg) | NO3 (kg) | OH (kg) | PO4 (kg) | SO4 (kg) | |
|--------------|------------------------------|---------|---------|---------|---------|---------|----------|--------|---------|---------|------------|---------|----------|-----------|---------|---------|----------|----------|---------|----------|----------|--|
| 1 | 8.1E+02 | 2.8E-01 | 1.7E+00 | | | | | | 2.1E+00 | 7.8E-02 | 2.4E+02 | 3.1E+00 | 2.9E+01 | 2.4E+00 | 9.8E-01 | 1.1E+03 | 4.4E+02 | 4.3E+02 | 5.5E+02 | 8.5E+00 | 1.9E+00 | |
| 2 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2.8E+05 | 1.3E+01 | 8.4E+02 | | 1.8E+01 | | | | 1.1E+02 | 2.4E+00 | 3.7E+03 | 7.4E+01 | 9.3E+03 | 1.8E+03 | 7.3E+01 | 9.9E+04 | 2.0E+04 | 2.4E+04 | 1.7E+04 | 2.1E+02 | 1.1E+04 | |
| 5 | 2.7E+02 | 4.2E-03 | 8.3E-01 | | 2.2E-02 | | | | 5.0E-02 | 1.2E-09 | 9.5E-10 | 5.2E-09 | 5.1E-10 | 2.3E-11 | 1.1E+02 | 1.1E+02 | 6.4E-09 | 9.2E-09 | 2.6E-09 | 5.2E-10 | 6.5E-10 | |
| 6 | 1.7E+02 | 1.1E-02 | 4.9E-01 | | 9.1E-03 | | | | 9.2E-02 | 2.4E-03 | 2.2E-09 | 1.5E-10 | 7.2E-09 | 1.3E-10 | 4.7E-11 | 7.1E+01 | 8.0E-09 | 7.6E-09 | 1.7E+01 | 1.5E-10 | 6.5E-10 | |
| 7 | 4.1E+05 | 1.9E+01 | 1.2E+03 | | 2.4E+01 | | | | 1.7E+02 | 3.7E+00 | 5.2E+03 | 1.1E+02 | 1.3E+04 | 2.4E+03 | 1.1E+02 | 1.2E+05 | 2.8E+04 | 3.4E+04 | 2.6E+04 | 2.9E+02 | 1.4E+04 | |
| 8 | 4.2E+05 | 5.2E+01 | 1.1E+03 | | 1.8E+01 | | | | 4.0E+02 | 1.3E+01 | 1.3E+05 | 3.8E+02 | 3.9E+04 | 7.6E+01 | 1.9E+02 | 3.0E+05 | 9.4E+04 | 1.3E+05 | 9.1E+04 | 7.6E+02 | 4.0E+03 | |
| 9 | 1.3E+04 | 1.7E+00 | 3.3E+01 | | 2.0E-01 | | | | 1.3E+01 | 4.4E-01 | 7.2E+03 | 4.9E+01 | 2.9E+02 | 2.8E+01 | 1.8E+00 | 1.2E+04 | 7.0E+03 | 5.6E+03 | 3.1E+03 | 2.3E+02 | 9.1E+01 | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 3.3E+05 | 4.2E+01 | 8.9E+02 | | 7.4E+00 | | | | 3.3E+02 | 1.1E+01 | 9.0E+02 | 1.5E+04 | 1.5E+04 | 6.3E+02 | 2.0E+01 | 1.1E+05 | 2.2E+04 | 1.4E+04 | 7.4E+04 | 6.4E+02 | 2.5E+03 | |
| 12 | 1.7E+05 | 3.0E+01 | 4.1E+02 | | 7.2E+00 | | | | 2.3E+02 | 7.8E+00 | 8.2E+02 | 9.4E+01 | 1.3E+04 | 1.0E+02 | 5.7E+01 | 5.6E+04 | 4.3E+04 | 3.8E+04 | 5.5E+04 | 1.9E+02 | 1.9E+03 | |
| 13 | 5.2E+05 | 1.2E+02 | 1.1E+03 | | | | | | 9.2E+02 | 3.3E+01 | 1.5E+04 | 1.9E+03 | 5.9E+03 | 2.3E+03 | 9.1E+02 | 5.9E+05 | 2.2E+05 | 1.9E+05 | 2.3E+05 | 5.6E+03 | 4.3E+03 | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 8.7E+02 | 1.6E-02 | 2.7E+00 | | 7.0E-02 | | | | 1.8E-01 | 6.9E-04 | 3.6E-01 | 2.0E-02 | 2.4E+00 | 9.7E-02 | 1.4E-01 | 3.6E+02 | 3.4E+00 | 4.7E+00 | 5.2E+00 | 6.4E-03 | 1.1E+00 | |
| 20 | 1.3E+06 | 1.3E+02 | 2.6E+00 | | 4.3E+01 | | | | 1.0E+03 | 3.1E+01 | 3.9E+04 | 6.9E+02 | 4.3E+04 | 2.4E+03 | 2.4E+03 | 9.0E+05 | 1.8E+05 | 7.7E+05 | 2.2E+05 | 2.4E+03 | 2.9E+04 | |
| 21 | 1.1E+06 | 2.3E+01 | 2.4E-01 | | 4.8E+02 | | | | 4.5E-01 | 1.5E-01 | 4.0E+03 | 4.6E+02 | 5.3E+03 | 8.8E+02 | 8.4E+02 | 1.4E+04 | 2.9E+04 | 1.8E+04 | 1.1E+04 | 8.5E-02 | 2.1E+02 | |
| 22 | 1.2E+06 | 5.6E+01 | 2.9E-01 | | 5.9E+00 | | | | 2.6E+01 | 7.9E-01 | 4.2E+03 | 8.2E+02 | 6.3E+04 | 4.4E+02 | 2.4E+02 | 2.9E+05 | 3.2E+04 | 2.0E+04 | 8.7E+03 | 4.4E+02 | 4.4E+02 | |
| 23 | 1.0E+06 | 2.6E+02 | 2.2E+03 | | 4.6E+02 | | | | 1.1E+02 | 2.0E+03 | 7.1E+01 | 7.7E+04 | 1.0E+03 | 9.0E+03 | 4.7E+02 | 7.4E+05 | 3.7E+05 | 3.5E+05 | 5.0E+05 | 5.7E+03 | 3.0E+03 | |
| 24 | 6.8E+05 | 5.6E-02 | 1.9E+00 | | 2.9E+01 | | | | 8.1E+01 | 1.6E-01 | 3.2E+04 | 8.7E+02 | 3.6E+04 | 1.3E+03 | 2.8E+02 | 3.4E+05 | 1.0E+05 | 2.5E+05 | 8.5E+04 | 1.3E+03 | 1.7E+04 | |
| 25 | 9.6E+05 | 8.5E+01 | 2.9E+02 | | 3.5E+01 | | | | 6.8E+02 | 2.0E+01 | 4.5E+04 | 1.3E+03 | 5.3E+04 | 1.7E+03 | 3.8E+02 | 7.4E+05 | 1.6E+05 | 4.0E+05 | 1.4E+05 | 1.8E+03 | 2.3E+04 | |
| 26 | 8.3E+04 | 1.5E+01 | 1.9E+01 | | 6.0E+00 | | | | 1.3E+02 | 4.7E+00 | 4.4E+02 | 1.1E+01 | 3.0E+03 | 1.4E+02 | 1.5E+00 | 8.1E+04 | 2.7E+04 | 3.1E+04 | 3.3E+04 | 4.9E+02 | 1.8E+02 | |
| 27 | 2.0E+05 | 5.8E+01 | 7.8E+01 | | 5.3E+02 | | | | 4.1E+02 | 1.5E+01 | 3.6E+04 | 5.5E+02 | 1.8E+03 | 4.4E+02 | 1.8E+02 | 2.1E+05 | 5.8E+04 | 7.8E+04 | 1.0E+05 | 1.7E+03 | 5.4E+02 | |
| 28 | 2.3E+05 | 1.0E+01 | 2.0E+02 | | 1.2E+01 | | | | 9.0E+01 | 1.9E+00 | 1.6E+04 | 2.5E+02 | 9.8E+03 | 1.1E+02 | 7.4E+01 | 8.7E+04 | 1.8E+04 | 2.9E+04 | 2.9E+04 | 6.7E+02 | 2.9E+03 | |
| 29 | 9.7E+05 | 3.1E+02 | 4.2E+02 | | 1.4E+02 | | | | 2.3E+03 | 8.5E+01 | 3.3E+04 | 7.5E+02 | 1.3E+04 | 2.1E+03 | 4.9E+02 | 1.2E+06 | 3.5E+05 | 3.5E+05 | 5.9E+05 | 5.9E+03 | 2.8E+03 | |
| 30 | 1.2E+05 | 2.2E+01 | 2.8E+02 | | 1.0E+02 | | | | 1.7E+02 | 5.9E+00 | 3.6E+04 | 1.5E+02 | 1.3E+03 | 2.6E+02 | 1.1E+02 | 1.3E+05 | 5.6E+04 | 4.1E+04 | 9.2E+02 | 6.8E+02 | 1.9E+03 | |
| 31 | 6.4E+05 | 9.4E+01 | 1.7E+03 | | 3.4E+01 | | | | 7.2E+02 | 2.4E+01 | 6.3E+04 | 7.5E+02 | 5.2E+04 | 1.2E+04 | 1.8E+03 | 3.8E+02 | 8.5E+05 | 2.6E+05 | 3.2E+05 | 2.3E+03 | 1.9E+03 | |
| 32 | 9.0E+05 | 2.1E+02 | 2.0E+03 | | 6.7E+01 | | | | 1.6E+03 | 5.6E+01 | 4.0E+04 | 1.9E+03 | 3.0E+04 | 5.3E+02 | 2.6E+02 | 9.8E+05 | 2.8E+05 | 2.8E+05 | 7.5E+05 | 2.4E+05 | 1.9E+04 | |
| 33 | 1.1E+06 | 1.4E+02 | 2.9E+03 | | 5.8E+01 | | | | 1.1E+03 | 3.4E+01 | 1.1E+05 | 4.9E+02 | 7.4E+04 | 2.0E+03 | 2.6E+02 | 9.8E+05 | 3.3E+05 | 4.6E+05 | 3.9E+05 | 5.1E+03 | 4.8E+03 | |
| 34 | 2.3E+05 | 6.8E+01 | 4.7E+02 | | 2.4E+01 | | | | 5.0E+02 | 1.8E+01 | 8.5E+02 | 6.0E+02 | 4.3E+03 | 5.3E+02 | 3.2E+02 | 2.7E+05 | 8.6E+04 | 8.7E+04 | 1.3E+05 | 2.6E+03 | 3.6E+02 | |
| 35 | 1.2E+05 | 3.3E+01 | 2.1E+02 | | 7.6E+00 | | | | 5.9E+01 | 1.4E+00 | 1.5E+03 | 3.8E+01 | 3.5E+03 | 6.2E+02 | 3.3E+01 | 1.8E+05 | 8.9E+03 | 1.1E+04 | 9.9E+03 | 8.7E+01 | 3.5E+03 | |
| 36 | 8.4E+05 | 5.0E+01 | 2.5E+03 | | 4.8E+01 | | | | 2.6E+02 | 8.4E+00 | 7.4E+02 | 1.8E+02 | 2.6E+04 | 1.6E+02 | 1.0E+02 | 1.7E+05 | 9.0E+04 | 7.5E+04 | 5.9E+04 | 3.9E+02 | 2.8E+03 | |
| 37 | 1.0E+05 | 2.1E+00 | 3.2E+02 | | 8.3E+00 | | | | 4.3E+02 | 1.1E+01 | 6.2E+04 | 7.3E+02 | 3.2E+04 | 3.9E+03 | 3.0E+02 | 4.2E+05 | 5.1E+04 | 4.1E+05 | 7.6E+04 | 3.9E+03 | 2.2E+04 | |
| 38 | 3.9E+05 | 9.9E+00 | 1.1E+00 | | 8.7E+00 | | | | 2.3E+01 | 1.2E-01 | 6.9E+02 | 1.7E+01 | 1.2E+03 | 4.4E+02 | 1.1E+01 | 5.6E+03 | 3.4E+03 | 2.2E+03 | 8.9E+02 | 4.5E+01 | 6.3E+02 | |
| 39 | 1.2E+06 | 4.9E+01 | 3.5E+03 | | 5.0E+01 | | | | 1.9E+00 | 2.7E+00 | 6.4E+04 | 7.4E+02 | 2.0E+04 | 3.7E+02 | 7.4E+02 | 1.5E+05 | 1.1E+04 | 1.8E+05 | 7.8E+03 | 2.3E+03 | 1.3E+04 | |
| 40 | 9.7E+05 | 7.9E+01 | 5.3E+02 | | 4.1E+02 | | | | 4.4E+02 | 8.7E+00 | 2.2E+04 | 5.7E+02 | 2.6E+04 | 2.0E+03 | 4.9E+02 | 1.0E+06 | 8.3E+04 | 1.4E+05 | 6.2E+04 | 6.6E+02 | 2.4E+04 | |
| 41 | 2.5E+05 | 7.5E+01 | 5.0E+02 | | 1.3E+02 | | | | 6.2E+02 | 2.1E+01 | 3.5E+04 | 8.2E+02 | 1.2E+04 | 5.8E+02 | 2.4E+02 | 2.9E+05 | 6.0E+04 | 8.1E+04 | 1.4E+05 | 8.2E+02 | 6.4E+03 | |
| 42 | 1.5E+05 | 1.5E-01 | 2.4E+02 | | 4.3E+01 | | | | 1.6E+01 | 4.2E-01 | 5.5E+04 | 4.3E+02 | 2.8E+04 | 3.4E+02 | 9.5E+01 | 1.7E+05 | 3.9E+04 | 4.2E+04 | 1.2E+05 | 3.8E+02 | 1.9E+02 | |
| 43 | 1.0E+05 | 3.8E+01 | 1.7E+02 | | 2.4E+01 | | | | 2.8E+02 | 1.1E+01 | 1.0E+04 | 5.4E+02 | 2.9E+03 | 1.9E+02 | 7.6E+01 | 1.2E+05 | 3.0E+04 | 3.0E+04 | 7.4E+04 | 5.3E+02 | 2.1E+02 | |
| 44 | 2.2E+05 | 5.7E+01 | 4.8E+02 | | 2.4E+01 | | | | 4.3E+02 | 1.6E+01 | 9.0E+03 | 2.5E+02 | 9.4E+03 | 4.2E+02 | 6.6E+01 | 2.5E+05 | 8.0E+04 | 9.1E+04 | 1.1E+05 | 1.4E+03 | 8.1E+02 | |
| 45 | 2.4E+05 | 3.8E-01 | 4.8E+00 | | 1.2E+02 | | | | 1.2E+01 | 1.5E+00 | 1.5E+00 | 3.7E+02 | 2.9E+04 | 1.6E+03 | 1.4E+01 | 8.7E+04 | 2.1E+04 | 1.3E+04 | 2.3E+04 | 9.1E+02 | 5.2E+02 | |
| 46 | 2.6E+05 | 2.7E+01 | 1.2E+00 | | 8.8E+00 | | | | 2.1E+01 | 5.0E+00 | 8.7E+03 | 4.1E+02 | 1.2E+04 | 4.1E+02 | 4.1E+02 | 1.3E+05 | 1.0E+04 | 1.5E+05 | 6.6E+04 | 6.5E+02 | 9.3E+03 | |
| 47 | 9.8E+05 | 5.9E+01 | 8.8E-01 | | 3.4E-01 | | | | 5.0E+02 | 1.3E+01 | 3.7E+04 | 9.2E+02 | 3.3E+04 | 2.5E+03 | 9.2E+02 | 3.2E+05 | 2.6E+04 | 4.7E+05 | 8.1E+04 | 3.0E+03 | 2.6E+04 | |
| 48 | 2.6E+05 | 1.2E+01 | 7.6E+02 | | 2.7E+00 | | | | 1.1E+02 | 2.4E+00 | 3.1E+03 | 1.4E+03 | 7.6E+01 | 1.4E+03 | 6.6E+01 | 4.3E+04 | 1.6E+04 | 2.0E+04 | 1.7E+04 | 1.7E+02 | 7.7E+03 | |
| 49 | 2.0E+07 | 2.4E+03 | 2.6E+04 | | 3.8E+03 | | | | 1.8E+04 | 6.0E+02 | 1.0E+06 | 1.0E+06 | 7.8E+05 | 4.8E+04 | 1.2E+04 | 1.3E+07 | 3.6E+06 | 6.4E+06 | 4.5E+06 | 6.6E+04 | 2.8E+05 | |
| 50 | 2.0E+07 | 2.4E+03 | 2.6E+04 | | 3.8E+03 | | | | 1.8E+04 | 6.0E+02 | 1.0E+06 | 1.0E+06 | 7.8E+05 | 4.8E+04 | 1.2E+04 | 1.3E+07 | 3.6E+06 | 6.4E+06 | 4.5E+06 | 6.6E+04 | 2.8E+05 | |
| 51 | 2.0E+07 | 2.4E+03 | 2.6E+04 | | 3.8E+03 | | | | 1.8E+04 | 6.0E+02 | 1.0E+06 | 1.0E+06 | 7.8E+05 | 4.8E+04 | 1.2E+04 | 1.3E+07 | 3.6E+06 | 6.4E+06 | 4.5E+06 | 6.6E+04 | 2.8E+05 | |
| Phase Totals | | | | | | | | | | | | | | | | | | | | | | |

Table A-15: Sludge Interstitial Liquid Phase Non-Radioactive Inventory

| Tank | Sludge IL Volume, gal | Ag (kg) | Al (kg) | As (kg) | B (kg) | Ba (kg) | Benzene (kg) | Ca (kg) | Cd (kg) | Co (kg) | Cr (kg) | Cs (kg) | Cu (kg) | Fe (kg) | Hg (kg) | K (kg) | Mg (kg) | Mn (kg) | Mo (kg) | Nd (kg) | Ni (kg) | Pb (kg) | |
|--------------|-----------------------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 4.9E+03 | 6.3E-02 | | 6.6E+00 | | | | | 3.1E-01 | 2.6E-02 | 8.7E+00 | 5.6E+00 | 1.0E+01 | 5.8E-01 | 6.3E-01 | 1.6E+02 | | 1.8E-02 | | | 6.3E-02 | | |
| 2 | 2.8E+03 | 4.3E-04 | | 2.7E+00 | | | | | 1.2E-01 | 1.2E-02 | 2.2E+00 | 1.1E+00 | 4.1E+00 | 1.9E-01 | 1.9E-01 | 8.4E+01 | 8.0E-05 | 7.4E-03 | 2.2E-01 | | 2.7E-02 | | |
| 3 | 2.6E+00 | | | 1.7E+00 | | | | | 1.1E-01 | 1.1E-02 | 2.2E+00 | 1.1E+00 | 3.8E+00 | 1.9E-01 | 2.2E-01 | 8.5E+01 | 2.1E-04 | 7.1E-03 | | | 2.6E-02 | | |
| 4 | 5.6E+03 | 3.9E-03 | | 1.7E+00 | 5.8E-01 | | | 1.9E-01 | 2.4E-02 | 1.1E-02 | 8.8E+00 | 2.0E-01 | 8.2E-01 | 3.9E-02 | 2.5E-01 | 4.6E+00 | 3.9E-03 | 5.1E-03 | 1.5E+00 | 8.6E-01 | 2.1E-02 | | |
| 5 | 1.3E+03 | 5.0E-04 | | 2.7E-01 | | | | 1.9E-02 | 2.1E-03 | 2.1E-03 | 1.8E+00 | 2.9E-11 | | 1.1E-01 | 3.0E-01 | 2.8E-10 | 1.1E-03 | 8.6E-04 | | 2.5E-01 | 3.9E-03 | | |
| 6 | 1.4E+03 | 2.1E-04 | | 5.2E-01 | | | | 1.3E-02 | 1.1E-02 | 3.0E-03 | 1.7E+00 | 3.0E-11 | 3.9E-01 | 2.4E-02 | 1.7E+00 | 5.8E-10 | 8.9E-04 | 1.5E-03 | | 1.8E-01 | 6.1E-03 | | |
| 7 | 1.8E+04 | 1.2E-02 | | 5.3E+00 | | | | 2.0E-01 | 7.7E-02 | 3.4E-02 | 4.1E+01 | 6.9E-01 | 2.6E+00 | 1.2E-01 | 7.7E+00 | 1.4E+01 | 1.5E-02 | 1.6E-02 | | 2.7E+00 | 6.7E-02 | | |
| 8 | 1.2E+04 | 1.9E-03 | | 6.8E+00 | | | | 4.4E-02 | 2.3E-01 | 3.4E-02 | 1.7E+01 | 4.3E-01 | 7.8E+00 | 1.8E-01 | 1.9E+00 | 1.7E+01 | 5.5E-03 | 1.9E-02 | | 8.2E-01 | 7.3E-02 | | |
| 9 | 1.9E+03 | 2.1E-03 | | 7.1E+00 | | | | 3.7E-03 | 4.0E-02 | 5.3E-03 | 1.1E+00 | 6.8E-01 | 1.3E+00 | 6.9E-05 | 9.0E-01 | 5.4E+01 | 7.2E-04 | 3.1E-03 | | 9.0E-02 | 1.2E-02 | | |
| 10 | 1.9E+03 | 1.4E-03 | | 5.5E-01 | | | | 2.1E-02 | 6.7E-03 | 3.5E-03 | 7.5E-01 | 1.2E-01 | 2.3E-01 | 7.2E-05 | 2.0E+00 | 5.6E+01 | 1.4E-03 | 1.7E-03 | | 3.0E-01 | 7.0E-03 | | |
| 11 | 6.7E+03 | 4.6E-03 | | 3.8E+00 | | | | 2.1E-02 | 1.3E-01 | 1.8E-02 | 6.6E+00 | 2.5E-02 | 4.4E+00 | 1.8E-01 | 6.1E+00 | 3.2E+00 | 2.9E-03 | 1.1E-02 | | 4.2E-01 | 4.0E-02 | | |
| 12 | 9.6E+03 | 6.6E-03 | | 7.1E+00 | 2.2E+00 | | | 2.0E-01 | 2.8E-01 | 3.2E-02 | 3.9E+00 | 2.9E-01 | 9.5E+00 | 1.4E-01 | 1.2E+01 | 3.6E+00 | 2.0E-02 | 2.0E-02 | 1.3E+00 | 1.2E-02 | 7.3E-02 | | |
| 13 | 1.9E+05 | 2.2E-01 | | 1.8E+02 | | | | 8.0E+00 | 7.7E-01 | 7.7E-01 | 3.8E+01 | 1.2E+02 | 2.7E+02 | 2.5E-01 | 8.8E+01 | 4.9E+03 | 9.9E-03 | 5.0E-01 | | 1.8E+00 | 1.8E+00 | | |
| 14 | 2.0E+04 | 3.8E-01 | | 1.6E+01 | | | | 2.6E-02 | 5.9E-01 | 7.5E-02 | 1.5E+01 | 2.1E+01 | 2.0E+01 | 1.9E-03 | 1.0E+01 | 1.3E+02 | 9.1E-03 | 4.4E-02 | | 9.5E-01 | 1.7E-01 | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 1.7E-02 | | 5.5E-03 | 1.8E+00 | 1.7E-02 | | 5.0E-01 | 2.2E-02 | 4.4E-03 | 1.9E-02 | 4.1E-06 | 3.4E-02 | 1.1E+01 | 2.4E-02 | 2.5E-03 | 6.9E-02 | 2.4E-02 | 2.3E-01 | 5.3E-01 | 8.3E-02 | 2.7E-01 | |
| 19 | 1.4E+03 | 9.5E-04 | | 2.9E-01 | | | | 1.9E-02 | 2.2E-03 | 3.3E+00 | 3.0E-05 | | | 5.3E-05 | 6.0E-01 | 1.8E-02 | 1.1E-03 | 9.3E-04 | | 2.6E-01 | 4.1E-03 | | |
| 21 | 3.7E+04 | 2.6E-02 | | 1.8E+01 | | | | 2.1E-01 | 5.7E-01 | 9.4E-02 | 1.5E+01 | 4.4E-01 | 1.9E+01 | 7.9E-01 | 8.5E+00 | 6.9E+01 | 1.9E-02 | 5.2E-02 | | 3.3E+00 | 2.0E-01 | | |
| 22 | 5.0E+04 | 2.3E-03 | | 3.3E+03 | | | | 2.6E-01 | 1.7E-02 | 1.4E-03 | 2.8E-02 | 1.5E-02 | 8.5E-03 | 4.2E-02 | 2.2E+01 | 9.5E+00 | 3.7E-03 | 5.3E-03 | 6.1E-02 | 9.2E+00 | 4.3E-02 | 1.0E-01 | |
| 23 | 8.8E+04 | 2.0E-01 | 7.5E+02 | 9.3E-03 | 5.1E-01 | 7.6E-02 | 1.7E-03 | 7.7E+01 | 4.9E-03 | 5.1E-04 | 1.0E+01 | 1.8E-01 | 6.7E-02 | 6.6E+00 | 3.4E+00 | 1.0E+01 | 4.7E+00 | 1.3E-02 | 1.8E-02 | 1.3E+00 | 6.2E-01 | 1.0E-01 | |
| 24 | 2.5E+03 | 3.8E-03 | | 2.5E+00 | | | | 1.1E-01 | 1.0E-02 | 4.9E-01 | 8.9E-01 | 8.9E-01 | 3.7E+00 | 2.4E-02 | 1.1E+00 | 1.3E+01 | | 6.7E-03 | | | 2.4E-02 | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 2.0E+05 | 8.3E-01 | | 1.0E+01 | | 2.8E-01 | | 1.2E+00 | 5.5E-01 | 4.7E-01 | 1.7E+01 | 1.9E+01 | 8.8E+01 | 3.3E+00 | 1.3E+01 | 1.4E+03 | 1.0E-01 | 2.1E-01 | | 1.9E+01 | 9.9E-01 | 2.5E+01 | |
| 27 | 2.7E+03 | 5.3E-03 | | 1.0E-01 | | 2.0E-03 | | 4.3E-03 | 9.9E-03 | 2.8E-01 | 5.1E-01 | 3.3E+00 | 3.6E-02 | 1.0E-01 | 1.2E+00 | 1.2E+00 | 3.1E-04 | 1.8E-03 | | 2.3E-02 | 2.4E-01 | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 4.3E+02 | 3.3E-04 | | 2.0E-02 | | 6.5E-05 | | | 1.6E-04 | 2.1E-03 | 2.9E-01 | 1.5E-01 | 8.2E-01 | 3.3E-04 | 3.3E-02 | 8.6E-01 | | 4.9E-05 | | | 5.0E-03 | 3.3E-02 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 7.3E+04 | 6.1E-02 | | 3.0E+00 | | 1.2E-02 | | 4.9E-02 | 1.2E+00 | 3.2E-01 | 3.6E+01 | 2.3E+01 | 1.1E+02 | 6.1E-02 | 4.2E+00 | 3.6E+02 | 3.9E-03 | 9.1E-03 | | 1.9E+00 | 7.5E-01 | 5.8E+00 | |
| 33 | 5.2E+04 | 3.6E-02 | | 3.3E+01 | | | | | 1.2E+00 | 1.5E-01 | 1.1E+02 | 6.8E+00 | 4.1E+01 | 1.7E+00 | 2.4E+01 | 3.8E+02 | 1.9E-02 | 9.2E-02 | | | 3.4E-01 | | |
| 34 | 8.8E+03 | 6.1E-03 | | 8.1E+00 | | | | 3.5E-01 | 3.5E-02 | 1.8E-02 | 1.8E+01 | 2.5E+00 | 1.2E+01 | 4.7E-01 | 4.2E+00 | 4.8E+01 | 6.6E-04 | 2.2E-02 | | | 8.0E-02 | | |
| 35 | 6.2E+04 | 4.3E-02 | | 3.5E+01 | | | | 2.0E-01 | 1.2E+00 | 1.7E-01 | 1.4E+02 | 1.0E+01 | 4.1E+01 | 1.7E+00 | 2.8E+01 | 2.4E+02 | 2.7E-02 | 1.0E-01 | | 3.8E+00 | 3.8E-01 | | |
| 36 | 1.3E+02 | 8.9E-05 | | 1.4E-01 | | | | 6.6E-03 | 5.9E-04 | 2.5E-01 | 9.7E-02 | 2.2E-01 | 8.7E-03 | 6.3E-02 | 3.3E+00 | | 3.9E-04 | | | | 1.4E-03 | | |
| 38 | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 9.3E+04 | 6.4E-02 | | 3.2E+01 | | | | 9.2E-01 | 6.5E-01 | 1.9E-01 | 2.1E+02 | 1.5E+00 | 2.2E+01 | 9.7E-01 | 4.1E+01 | 4.0E+02 | 6.1E-02 | 9.6E-02 | | 1.3E+01 | 3.9E-01 | | |
| 40 | 4.4E+05 | 3.0E-01 | | 9.4E+01 | | | | 6.2E+00 | 2.1E-01 | 7.1E-01 | 1.0E+03 | 3.4E+00 | | 1.5E-01 | 1.9E+02 | 9.3E+01 | 3.5E-01 | 3.0E-01 | | 8.1E+01 | 1.3E+00 | | |
| 41 | 1.9E+03 | 1.6E-02 | | 4.6E-03 | 7.8E-02 | 1.7E-02 | 1.8E-03 | 2.1E-01 | 1.0E-02 | 3.5E-04 | 3.6E-01 | 5.2E-03 | 1.0E-02 | 1.0E-02 | 5.2E-02 | 3.8E+00 | 6.0E-03 | 1.0E-01 | 2.4E-01 | | 3.3E-01 | 7.8E-02 | 2.9E-01 |
| 42 | 1.4E+04 | 9.7E-03 | | 4.0E+00 | | | | 1.7E-01 | 4.9E-02 | 2.6E-02 | 3.3E+01 | 2.2E+00 | 1.7E+00 | 8.2E-02 | 6.2E+00 | 2.0E+01 | 1.0E-02 | 1.2E-02 | | 2.2E+00 | 5.1E-02 | | |
| 43 | 1.7E+05 | 9.4E-02 | | 4.7E+00 | | 1.9E-02 | | 5.6E-01 | 1.1E-01 | 3.2E-01 | 2.0E+02 | 1.1E+00 | 7.1E+01 | 2.7E+00 | 2.1E+01 | 2.7E+01 | 5.9E-02 | 7.5E-02 | | 9.5E+00 | 7.0E-01 | 1.2E+01 | |
| 44 | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 1.7E+05 | 1.2E-01 | | 1.7E+02 | | 7.8E+00 | | | 7.8E+00 | 7.3E-01 | 3.4E+02 | 4.5E+01 | 2.6E+02 | 1.0E+01 | 8.3E+01 | 6.6E+02 | | 4.7E-01 | | | 1.7E+00 | | |
| 48 | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 1.4E+05 | 9.9E-02 | | 4.3E+01 | | | | 2.5E+00 | 6.9E-01 | 2.8E-01 | 5.7E+01 | 6.3E+00 | 2.3E+01 | 1.1E+00 | 6.3E+01 | 1.2E+02 | 1.0E-01 | 1.3E-01 | | 2.2E+01 | 5.5E-01 | | |
| Phase Totals | 1.9E+06 | 2.6E+00 | | 7.5E+02 | 6.4E+00 | 4.4E-01 | 5.1E-02 | 9.1E+01 | 2.3E+01 | 4.6E+00 | 2.4E+03 | 2.8E+02 | 1.0E+03 | 4.3E+01 | 6.5E+02 | 9.4E+03 | 5.6E+00 | 2.4E+00 | 3.3E+00 | 1.9E+02 | 1.1E+01 | 4.4E+01 | |

Table A-15: Sludge Interstitial Liquid Phase Non-Radioactive Inventory, Continued

| Tank | Sludge IL Volume, gal | Ru (kg) | Se (kg) | Si (kg) | Sr (kg) | Ti (kg) | TPB (kg) | U (kg) | Zn (kg) | Zr (kg) | AlOH4 (kg) | Cl (kg) | CO3 (kg) | C2O4 (kg) | F (kg) | Na (kg) | NO2 (kg) | NO3 (kg) | OH (kg) | PO4 (kg) | SO4 (kg) | | |
|--------------|-----------------------|---------|---------|---------|---------|---------|----------|---------|---------|---------|------------|---------|----------|-----------|---------|---------|----------|----------|---------|----------|----------|---------|--|
| 1 | 4.9E+03 | 1.7E+00 | 1.1E+01 | | | | | | 1.3E+01 | 4.7E-01 | 1.4E+03 | 1.9E+01 | 1.8E+02 | 1.4E+01 | 6.0E+00 | 6.8E+03 | 2.6E+03 | 2.6E+03 | 3.3E+03 | 5.2E+01 | 1.1E+01 | | |
| 2 | 2.8E+03 | 7.0E-01 | 6.2E+00 | | | | | | 5.2E+00 | 1.9E-01 | 1.1E+03 | 8.4E+00 | 9.7E+01 | 6.5E+00 | 2.7E+00 | 3.5E+00 | 1.5E+03 | 1.5E+03 | 1.5E+03 | 1.3E+03 | 5.9E+01 | 5.5E+00 | |
| 3 | 2.8E+03 | 6.6E-01 | 6.4E+00 | | | | | | 5.0E+00 | 1.8E-01 | 3.1E+02 | 1.5E+01 | 9.3E+01 | 7.7E+01 | 1.5E+01 | 3.5E+03 | 1.1E+03 | 1.1E+03 | 1.2E+03 | 7.7E+01 | 3.9E+01 | 3.9E+01 | |
| 4 | 5.6E+03 | 2.6E-01 | 1.7E+01 | | 3.7E-01 | | | | 2.3E+00 | 4.9E-02 | 7.4E+01 | 1.5E+00 | 1.9E+02 | 3.6E+01 | 1.5E+00 | 2.0E+03 | 4.0E+02 | 4.7E+02 | 3.5E+02 | 4.2E+00 | 2.2E+02 | 2.2E+02 | |
| 5 | 1.3E+03 | 2.1E-02 | 4.1E+00 | | 1.1E-01 | | | | 2.5E-01 | 5.7E-09 | 4.7E-09 | 2.6E-08 | 2.5E-09 | 2.5E-09 | 1.2E-10 | 5.4E+02 | 3.2E-08 | 4.6E-08 | 1.3E-08 | 2.6E-09 | 3.2E-09 | 3.2E-09 | |
| 6 | 1.4E+03 | 9.3E-02 | 4.1E+00 | 6.0E-02 | 7.6E-02 | | | | 7.7E-01 | 2.0E-02 | 1.8E-08 | 1.3E-09 | 6.0E-08 | 1.1E-09 | 3.9E-10 | 5.9E+02 | 6.7E-08 | 6.4E-08 | 1.4E-08 | 1.3E-09 | 5.4E-09 | 5.4E-09 | |
| 7 | 1.8E+04 | 8.2E-01 | 5.2E+01 | 1.0E+00 | 1.1E+00 | | | | 7.2E+00 | 1.6E-01 | 2.2E+02 | 4.5E+00 | 5.5E+02 | 1.0E+02 | 4.5E+00 | 5.1E+03 | 1.2E+03 | 1.4E+03 | 1.1E+03 | 1.2E+01 | 6.0E+02 | 6.0E+02 | |
| 8 | 1.2E+04 | 1.5E+00 | 3.8E+01 | 5.1E-01 | 3.0E-01 | | | | 1.2E+01 | 3.9E-01 | 1.1E+03 | 2.2E+01 | 5.4E+00 | 8.6E+03 | 2.7E+03 | 3.7E+03 | 2.6E+03 | 2.6E+03 | 2.2E+01 | 1.2E+02 | 1.2E+02 | 1.2E+02 | |
| 9 | 1.9E+03 | 2.5E-01 | 4.8E+00 | 3.8E+01 | 2.9E-02 | | | | 1.9E+00 | 6.4E-02 | 1.1E+03 | 7.1E+00 | 4.2E+01 | 2.6E-01 | 1.8E+03 | 1.0E+03 | 1.0E+03 | 8.2E+02 | 4.5E+02 | 3.3E+01 | 1.3E+01 | 1.3E+01 | |
| 10 | 1.9E+03 | 8.0E-02 | 5.7E+00 | 1.3E-01 | 1.3E-01 | | | | 7.1E-01 | 1.4E-02 | 1.1E+03 | 7.4E+00 | 4.3E+01 | 4.3E+00 | 2.7E-01 | 1.4E+03 | 1.2E+02 | 1.7E+03 | 1.0E+02 | 3.4E+01 | 1.4E+01 | 1.4E+01 | |
| 11 | 6.7E+03 | 8.4E-01 | 1.8E+01 | 1.0E-05 | 1.5E-01 | | | | 6.5E+00 | 2.1E-01 | 1.8E+01 | 2.9E+01 | 3.1E+02 | 1.3E+01 | 4.0E-01 | 2.3E+03 | 4.4E+02 | 2.8E+02 | 1.5E+03 | 1.3E+01 | 4.9E+01 | 4.9E+01 | |
| 12 | 9.6E+03 | 1.7E+00 | 2.4E+01 | 4.1E-01 | | | | | 1.3E+01 | 4.5E-01 | 4.7E+01 | 5.4E+00 | 7.2E+02 | 5.7E+02 | 3.3E+00 | 3.2E+03 | 2.5E+03 | 3.1E+03 | 2.2E+03 | 1.1E+03 | 1.1E+03 | 1.1E+03 | |
| 13 | 1.9E+05 | 4.6E+01 | 4.3E+02 | | | | | | 3.5E+02 | 1.2E+01 | 5.6E+03 | 7.2E+02 | 2.2E+03 | 8.5E+02 | 3.4E+02 | 8.2E+04 | 8.7E+04 | 7.2E+04 | 8.7E+04 | 1.1E+03 | 1.6E+03 | 1.6E+03 | |
| 14 | 2.0E+04 | 3.7E+00 | 6.5E+01 | | 2.7E-01 | | | | 2.8E+01 | 9.4E-01 | 6.1E+03 | 3.3E+01 | 1.1E+03 | 5.7E+01 | 2.3E+01 | 2.4E+04 | 1.3E+04 | 2.2E+04 | 6.6E+03 | 1.4E+02 | 8.4E+01 | 8.4E+01 | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 2.8E+03 | 4.5E-02 | 5.5E-03 | 2.7E-01 | 1.1E-01 | 6.6E-03 | | 2.9E-01 | 6.1E-02 | 1.3E-02 | 7.6E-02 | 6.8E-04 | 5.1E-01 | 2.1E-02 | 2.9E-02 | 1.2E+03 | 1.9E-01 | 1.1E-01 | 1.9E+00 | 1.4E-03 | 2.4E-02 | 2.4E-02 | |
| 19 | 1.4E+03 | 2.5E-02 | 4.2E+00 | 1.1E-01 | 1.1E-01 | | | | 2.9E-01 | 1.1E-03 | 5.6E-01 | 3.2E-02 | 3.7E+00 | 1.5E-01 | 2.2E-01 | 5.7E+02 | 5.4E+00 | 7.3E+00 | 8.3E+00 | 1.0E-02 | 1.7E+00 | 1.7E+00 | |
| 21 | 3.7E+04 | 3.8E+00 | 7.6E-02 | 1.6E+00 | 1.3E+00 | | | 3.7E+00 | 3.0E+01 | 9.3E-01 | 1.2E+03 | 2.1E+01 | 1.3E+03 | 7.1E+01 | 3.7E+01 | 2.7E+04 | 5.3E+03 | 2.3E+04 | 6.6E+03 | 7.1E+01 | 8.7E+02 | 8.7E+02 | |
| 22 | 5.0E+04 | 1.0E+00 | 1.0E-02 | 2.1E+01 | 9.2E-03 | 3.4E-03 | 1.9E+00 | | 2.0E-02 | 6.7E-03 | 1.8E+02 | 2.0E+01 | 2.3E+02 | 3.9E+01 | 7.1E+01 | 6.3E+01 | 1.3E+03 | 8.0E+02 | 4.9E+02 | 3.7E+01 | 9.1E+00 | 9.1E+00 | |
| 23 | 8.8E+04 | 4.2E+00 | 2.2E-02 | 4.0E+01 | 4.5E-01 | 9.0E-01 | 7.7E-02 | 2.0E+00 | 3.5E+00 | 6.0E-02 | 3.2E+02 | 6.2E+01 | 4.8E+03 | 3.4E+01 | 1.8E+01 | 2.2E+04 | 2.4E+03 | 1.5E+03 | 6.6E+02 | 3.3E+01 | 3.3E+01 | 3.3E+01 | |
| 24 | 2.5E+03 | 6.4E-01 | 5.3E+00 | 1.1E+00 | | | | 2.6E-01 | 4.8E+00 | 1.7E-01 | 1.9E+02 | 3.7E+00 | 8.5E+00 | 2.2E+01 | 1.1E+00 | 1.8E+03 | 9.1E+02 | 8.4E+02 | 1.2E+03 | 1.4E+01 | 7.4E+00 | 7.4E+00 | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 2.0E+05 | 1.8E+01 | 6.3E+01 | 8.2E+00 | 7.5E+00 | | | | 1.4E+02 | 4.3E+00 | 9.6E+03 | 2.7E+02 | 1.1E+04 | 3.5E+02 | 8.1E+01 | 1.6E+05 | 3.4E+04 | 8.6E+04 | 3.1E+04 | 3.8E+02 | 4.8E+03 | 4.8E+03 | |
| 27 | 2.7E+03 | 5.8E-01 | 6.3E-01 | 2.0E-01 | | | | 4.3E+00 | 1.5E-01 | 1.5E-01 | 1.4E+01 | 3.5E-01 | 9.8E+01 | 4.5E+00 | 5.0E-02 | 2.7E+03 | 8.6E+02 | 1.0E+03 | 1.1E+03 | 1.6E+01 | 5.7E+00 | 5.7E+00 | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 4.3E+02 | 1.4E-01 | 1.9E-01 | 6.4E-02 | | | | | 1.0E+00 | 3.8E-02 | 1.5E+01 | 3.4E-01 | 5.9E+00 | 9.3E-01 | 2.2E-01 | 5.5E+02 | 1.5E+02 | 1.6E+02 | 2.7E+02 | 2.6E+00 | 1.2E+00 | 1.2E+00 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 7.3E+04 | 1.9E+01 | 2.6E+01 | 1.2E+01 | | | | 3.0E-02 | 1.4E+02 | 5.2E+00 | 1.4E+03 | 1.2E+02 | 1.4E+03 | 2.1E+02 | 4.4E+01 | 9.8E+04 | 2.6E+04 | 3.0E+04 | 3.6E+04 | 2.6E+02 | 2.1E+02 | 2.1E+02 | |
| 33 | 5.2E+04 | 7.6E+00 | 1.3E+02 | 2.7E+00 | 5.3E-01 | | | | 5.8E+01 | 1.9E+00 | 5.0E+03 | 6.0E+01 | 4.2E+03 | 1.0E+02 | 2.9E+01 | 3.8E+04 | 8.1E+03 | 1.5E+04 | 1.4E+04 | 1.7E+02 | 1.9E+03 | 1.9E+03 | |
| 34 | 8.8E+03 | 2.0E+00 | 2.0E+01 | 6.6E-01 | | | | | 1.5E+01 | 5.5E-01 | 3.9E+02 | 1.9E+01 | 2.9E+02 | 5.2E+00 | 2.5E+00 | 9.6E+03 | 3.2E+03 | 4.5E+03 | 3.8E+03 | 5.0E+01 | 4.7E+01 | 4.7E+01 | |
| 35 | 6.2E+04 | 7.8E+00 | 1.7E+02 | 3.3E+00 | 1.4E+00 | | | | 6.1E+01 | 2.0E+00 | 6.3E+03 | 2.8E+01 | 4.3E+03 | 1.2E+02 | 2.1E+01 | 5.7E+04 | 1.6E+04 | 4.3E+04 | 1.4E+04 | 4.3E+02 | 1.1E+03 | 1.1E+03 | |
| 36 | 1.3E+02 | 3.7E-02 | 2.6E-01 | | | | | | 2.8E-01 | 1.0E-02 | 4.7E-01 | 3.3E-01 | 2.4E+00 | 2.9E-01 | 1.2E-01 | 1.5E+02 | 4.7E+01 | 4.8E+01 | 7.1E+01 | 1.4E+00 | 2.0E-01 | 2.0E-01 | |
| 37 | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 9.3E+04 | 5.6E+00 | 2.7E+02 | 3.9E+00 | 5.3E+00 | | | | 4.7E+01 | 1.2E+00 | 6.8E+03 | 8.0E+01 | 3.5E+03 | 4.4E+02 | 3.4E+01 | 4.6E+04 | 5.7E+03 | 4.5E+04 | 8.4E+03 | 4.4E+02 | 2.4E+03 | 2.4E+03 | |
| 40 | 4.4E+05 | 8.7E+00 | 1.4E+03 | 3.5E+01 | | | | | 9.5E+01 | 5.0E-01 | 2.9E+03 | 7.2E+01 | 5.0E+03 | 1.8E+03 | 4.6E+01 | 2.4E+04 | 1.4E+04 | 1.4E+04 | 9.5E+03 | 3.7E+03 | 1.9E+02 | 2.7E+03 | |
| 41 | 1.9E+03 | 4.7E-02 | 5.1E-03 | 7.9E-02 | 4.2E-02 | 7.1E-03 | | | 9.3E-03 | 1.3E-02 | 3.0E+02 | 3.5E+00 | 9.6E+01 | 1.8E+00 | 3.5E+00 | 7.2E+02 | 5.2E+01 | 8.8E+02 | 3.7E+01 | 1.1E+01 | 6.1E+01 | 6.1E+01 | |
| 42 | 1.4E+04 | 5.9E-01 | 4.2E+01 | 6.0E-01 | 9.5E-01 | | | | 5.3E+00 | 1.0E-01 | 2.7E+02 | 6.9E+00 | 3.1E+02 | 2.4E+01 | 5.9E+00 | 1.2E+04 | 1.0E+03 | 1.7E+03 | 7.4E+02 | 7.9E+00 | 2.9E+02 | 2.9E+02 | |
| 43 | 1.7E+05 | 1.4E+01 | 9.4E+01 | 7.2E+01 | 3.6E+00 | | | 3.2E+01 | 1.1E+02 | 3.4E+00 | 3.7E+02 | 7.7E+01 | 6.7E+03 | 7.2E+01 | 5.3E+01 | 7.4E+04 | 3.8E+04 | 3.2E+04 | 2.4E+04 | 1.4E+02 | 1.1E+03 | 1.1E+03 | |
| 44 | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 1.7E+05 | 4.5E+01 | 3.7E+02 | 1.8E+01 | | | | | 3.3E+02 | 1.2E+01 | 7.0E+03 | 4.2E+02 | 7.3E+03 | 3.2E+02 | 5.1E+01 | 1.9E+05 | 6.2E+04 | 7.1E+04 | 8.5E+04 | 1.1E+03 | 6.3E+02 | 6.3E+02 | |
| 48 | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 1.4E+05 | 7.0E+00 | 4.3E+02 | 1.5E+00 | 9.2E+00 | | | | 6.1E+01 | 1.4E+00 | 1.8E+03 | 3.6E+01 | 4.2E+03 | 7.5E+02 | 3.7E+01 | 2.4E+04 | 9.1E+03 | 1.1E+04 | 9.6E+03 | 9.7E+01 | 4.3E+03 | 4.3E+03 | |
| Phase Totals | 1.9E+06 | 2.0E+02 | 3.7E+03 | 1.9E+02 | 6.8E+01 | 9.2E-01 | 2.0E+00 | 3.8E+01 | 1.6E+03 | 4.9E+01 | 6.5E+04 | 2.2E+03 | 6.2E+04 | 5.6E+03 | 9.4E+02 | 1.1E+06 | 3.4E+05 | 4.9E+05 | 3.5E+05 | 6.0E+03 | 2.3E+04 | 2.3E+04 | |

Table A-16: Salt Interstitial Liquid Phase Non-Radioactive Inventory

| Tank | Salt IL Volume, gal | Ag (kg) | Al (kg) | As (kg) | B (kg) | Ba (kg) | Benzene (kg) | Ca (kg) | Cd (kg) | Co (kg) | Cr (kg) | Cs (kg) | Cu (kg) | Fe (kg) | Hg (kg) | K (kg) | Mg (kg) | Mn (kg) | Mo (kg) | Nd (kg) | Ni (kg) | Pb (kg) |
|--------------|---------------------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 1.4E+05 | 1.8E+00 | | 1.9E+02 | | | | | 9.0E+00 | 7.7E-01 | 2.5E+02 | 1.6E+02 | 3.0E+02 | 1.7E+01 | 1.8E+01 | 4.8E+03 | | 5.2E-01 | | | | 1.8E+00 |
| 2 | 1.6E+05 | 2.4E-02 | | 1.5E+02 | | | | | 6.8E+00 | 6.3E-01 | 1.3E+02 | 6.1E+01 | 2.3E+02 | 1.1E+01 | 1.2E+01 | 4.8E+03 | 4.5E-03 | 4.2E-01 | | | 7.6E+00 | 9.9E-01 |
| 3 | 1.6E+05 | 2.4E-02 | | 1.5E+02 | | | | | 6.4E+00 | 6.3E-01 | 1.3E+02 | 6.1E+01 | 2.2E+02 | 1.1E+01 | 1.2E+01 | 4.8E+03 | 1.2E-02 | 4.0E-01 | | | 1.0E+01 | 2.3E-01 |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 1.8E-01 | | 9.3E+01 | | | | 3.1E-01 | 3.4E+00 | 4.5E-01 | 9.1E+01 | 5.7E+01 | 1.1E+02 | 5.9E-03 | 7.6E+01 | 4.6E+03 | 6.1E-02 | 2.6E-01 | | 7.6E+00 | 9.9E-01 | |
| 10 | 6.3E+04 | 4.8E-02 | | 1.8E+01 | | | | 7.5E-01 | 2.2E-01 | 1.2E-01 | 2.5E+01 | 4.1E+00 | 7.6E+00 | 2.4E-03 | 6.7E+01 | 1.9E+03 | 4.5E-02 | 5.6E-02 | | 1.0E+01 | 2.3E-01 | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1.5E+05 | 2.0E-02 | | 4.3E-01 | 8.3E+01 | 2.2E+00 | | 2.1E+01 | 1.7E-01 | 5.1E-02 | 4.0E+01 | 1.2E+01 | 1.7E+00 | 3.1E+01 | 5.7E-01 | 1.0E+03 | 1.4E+00 | 2.2E+00 | 4.7E+01 | 1.8E+01 | 1.6E-01 | 2.0E+00 |
| 26 | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 6.8E-01 | | 1.3E+01 | | 2.6E-01 | | | 5.5E-01 | 1.3E+00 | 3.6E+01 | 6.6E+01 | 4.3E+02 | 4.6E+00 | 1.3E+01 | 1.6E+02 | 3.9E-02 | 2.3E-01 | | | 3.0E+00 | 3.1E+01 |
| 28 | 3.1E+05 | 4.6E-01 | | 1.3E+01 | | 1.8E-01 | | | 6.7E-01 | 1.4E+00 | 1.1E+02 | 6.6E+01 | 5.1E+02 | 3.3E+00 | 1.2E+01 | 5.9E+03 | 2.8E-01 | 2.8E-01 | | | 3.3E+00 | 3.9E+01 |
| 29 | 3.1E+05 | 2.4E-01 | | 2.2E+01 | | 1.6E+00 | | | 8.7E-01 | 5.8E-01 | 4.7E+02 | 9.6E+00 | 4.2E+01 | 2.7E+00 | 2.3E+01 | 1.4E+03 | 2.2E-01 | 3.5E-01 | | 4.8E+01 | 1.1E+00 | 5.9E+01 |
| 30 | 8.9E+04 | 6.8E-02 | | 4.1E+00 | | 1.4E-02 | | | 3.4E-02 | 4.3E-01 | 6.0E+01 | 3.2E+01 | 1.7E+02 | 6.8E-02 | 6.8E+00 | 1.8E+02 | 1.0E-02 | 1.0E-02 | | | 1.0E+00 | 6.8E+00 |
| 31 | 3.4E+05 | 2.4E-01 | | 2.7E+02 | | | | | 1.1E+01 | 1.2E+00 | 7.1E+02 | 2.0E+02 | 3.7E+02 | 1.5E+01 | 1.6E+02 | 3.9E+03 | 7.2E-02 | 7.4E-01 | | | 2.7E+00 | |
| 32 | 4.1E+04 | 3.4E-02 | | 1.7E+00 | | 6.9E-03 | | | 1.7E-02 | 1.8E-01 | 2.0E+01 | 1.3E+01 | 6.3E+01 | 3.4E-02 | 2.4E+00 | 2.0E+02 | 2.2E-03 | 5.2E-03 | | 3.3E+00 | 4.2E-01 | 3.3E+00 |
| 33 | 8.8E+04 | 6.1E-02 | | 5.6E+01 | | | | | 2.1E+00 | 2.6E-01 | 1.9E+02 | 1.2E+01 | 7.0E+01 | 2.8E+00 | 4.0E+01 | 6.5E+02 | 3.2E-02 | 1.6E-01 | | | 5.9E-01 | |
| 34 | 5.7E+04 | 4.0E-02 | | 5.2E+01 | | | | | 2.3E+00 | 2.2E-01 | 1.1E+02 | 1.6E+01 | 7.7E+01 | 3.0E+00 | 2.7E+01 | 3.1E+02 | 4.3E-03 | 1.4E-01 | | | 5.2E-01 | |
| 35 | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 2.1E-01 | | 3.4E+02 | | | | | 1.6E+01 | 1.4E+00 | 5.9E+02 | 2.3E+02 | 5.3E+02 | 2.1E+01 | 1.5E+02 | 7.8E+03 | | 9.3E-01 | | | 3.3E+00 | |
| 37 | 3.2E+05 | 2.4E-01 | | 1.2E+02 | | | | | 3.7E+00 | 2.1E+00 | 7.0E-01 | 8.2E+02 | 1.7E+01 | 3.2E+00 | 1.6E+02 | 3.4E+02 | 2.4E-01 | 3.5E-01 | | | 1.4E+00 | |
| 38 | 2.4E+05 | 2.1E-01 | | 1.2E+01 | | 4.6E-02 | | | 5.4E-01 | 3.7E-01 | 7.0E-01 | 4.7E+02 | 2.7E+00 | 1.7E+02 | 4.9E+00 | 4.2E+01 | 5.7E+01 | 9.7E-02 | 1.5E-01 | | 1.2E+01 | 1.5E+00 |
| 39 | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 1.8E+05 | 1.5E+00 | | 4.4E-01 | 7.4E+00 | 1.6E+00 | | 2.0E+01 | 9.7E-01 | 3.3E-02 | 3.4E+01 | 5.0E-01 | 9.7E-01 | 6.4E+00 | 5.0E+00 | 3.6E+02 | 5.8E-01 | 9.9E+00 | 2.3E+01 | 3.2E+01 | 7.4E+00 | 2.7E+01 |
| 42 | | | | | | | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 2.1E-01 | | 3.4E+02 | | | | | 1.6E+01 | 1.4E+00 | 5.7E+02 | 5.4E+01 | 5.3E+02 | 2.1E+01 | 1.5E+02 | 7.2E+03 | | 9.3E-01 | | | 3.3E+00 | |
| 45 | 3.3E+05 | 2.5E-01 | | 4.9E+02 | 4.7E+03 | 4.3E+01 | | 1.3E+03 | 4.8E-01 | 1.9E+00 | 4.9E+01 | 7.6E+01 | 8.9E+01 | 6.4E+01 | 1.7E+02 | 8.8E+03 | 1.8E+02 | 6.4E+01 | 7.8E+01 | | 2.2E+02 | 7.0E+00 |
| 46 | 3.5E+05 | 2.4E-01 | | 4.9E+02 | | | | | 2.4E+01 | 1.9E+00 | 6.0E+02 | 1.2E+02 | 7.9E+02 | 3.1E+01 | 1.7E+02 | 4.5E+03 | | 1.3E+00 | | | 4.6E+00 | |
| 47 | 2.3E+05 | 1.6E-01 | | 2.3E+02 | | | | | 1.0E+01 | 9.7E-01 | 4.5E+02 | 6.0E+01 | 3.5E+02 | 1.4E+01 | 1.1E+02 | 8.8E+02 | | 6.3E-01 | | | 2.3E+00 | |
| 48 | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 6.9E-03 | 2.6E+00 | 2.2E-04 | 2.9E-03 | 8.5E-04 | 7.8E-05 | 5.9E-03 | 9.2E-04 | 9.9E-05 | 2.0E-02 | 3.9E-04 | 1.4E-03 | 2.3E-03 | 3.5E-03 | 7.1E-02 | 7.1E-04 | 9.7E-04 | 5.1E-03 | 7.6E-03 | 2.8E-03 | 1.0E-02 |
| 50 | | | | | | | | | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 7.7E+00 | 2.6E+00 | 3.1E+03 | 4.7E+03 | 4.9E+01 | 1.7E-01 | 1.4E+03 | 1.1E+02 | 1.7E+01 | 6.0E+03 | 1.4E+03 | 5.2E+03 | 2.7E+02 | 1.4E+03 | 6.5E+04 | 1.8E+02 | 8.4E+01 | 1.5E+02 | 1.8E+02 | 2.6E+02 | 2.0E+02 |

Table A-16: Salt Interstitial Liquid Phase Non-Radioactive Inventory, Continued

| Tank | Salt IL Volume, gal | Ru (kg) | Se (kg) | Si (kg) | Sr (kg) | Ti (kg) | TPB (kg) | U (kg) | Zn (kg) | Zr (kg) | AlOH4 (kg) | Cl (kg) | CO3 (kg) | C2O4 (kg) | F (kg) | Na (kg) | NO2 (kg) | NO3 (kg) | OH (kg) | PO4 (kg) | SO4 (kg) | |
|--------------|---------------------|---------|---------|---------|---------|---------|----------|---------|---------|---------|------------|---------|----------|-----------|---------|---------|----------|----------|---------|----------|----------|--|
| 1 | 1.4E+05 | 5.0E+01 | 3.1E+02 | | | | | | 3.7E+02 | 1.4E+01 | 4.2E+04 | 5.4E+02 | 5.1E+03 | 4.2E+02 | 1.7E+02 | 2.0E+05 | 7.7E+04 | 7.6E+04 | 9.7E+04 | 1.5E+03 | 3.3E+02 | |
| 2 | 1.6E+05 | 3.9E+01 | 3.5E+02 | | | | | | 3.0E+02 | 1.1E+01 | 6.1E+04 | 4.8E+02 | 5.5E+03 | 3.6E+02 | 1.5E+02 | 2.0E+05 | 8.5E+04 | 8.5E+04 | 7.4E+04 | 3.4E+03 | 3.1E+02 | |
| 3 | 1.6E+05 | 3.7E+01 | 3.6E+02 | | | | | | 2.8E+02 | 1.0E+01 | 1.7E+04 | 8.7E+02 | 5.2E+03 | 4.4E+03 | 8.7E+02 | 2.0E+05 | 6.4E+04 | 6.5E+04 | 7.0E+04 | 4.4E+03 | 2.2E+02 | |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 1.6E+05 | 2.1E+01 | 4.1E+02 | | 2.4E+00 | | | | 1.6E+02 | 5.4E+00 | 8.9E+04 | 6.0E+02 | 3.5E+03 | 3.5E+02 | 2.2E+01 | 1.5E+05 | 8.6E+04 | 6.9E+04 | 3.8E+04 | 2.8E+03 | 1.1E+03 | |
| 10 | 6.3E+04 | 2.7E+00 | 1.9E+02 | | 4.3E+00 | | | | 2.4E+01 | 4.8E+01 | 3.6E+04 | 2.5E+02 | 1.4E+03 | 1.4E+02 | 9.1E+00 | 4.5E+04 | 4.0E+03 | 5.7E+04 | 3.4E+03 | 1.1E+03 | 4.6E+02 | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 1.5E+05 | 1.2E+02 | 4.3E+01 | 6.4E+00 | 9.1E+01 | 9.8E+01 | | | 1.8E+01 | 3.6E+02 | 7.2E+03 | 1.9E+02 | 8.1E+03 | 2.9E+02 | 6.3E+01 | 7.6E+04 | 2.2E+04 | 5.5E+04 | 1.9E+04 | 3.0E+02 | 3.7E+03 | |
| 25 | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 3.5E+05 | 7.4E+01 | 8.1E+01 | 2.5E+01 | | | | | 5.6E+02 | 2.0E+01 | 1.8E+03 | 4.5E+01 | 1.3E+04 | 5.7E+02 | 6.5E+00 | 3.4E+05 | 1.1E+05 | 1.3E+05 | 1.4E+05 | 2.0E+03 | 7.4E+02 | |
| 28 | 3.1E+05 | 8.7E+01 | 1.2E+02 | 8.3E+02 | | | | | 6.5E+02 | 2.4E+01 | 5.7E+04 | 8.7E+02 | 2.8E+03 | 7.0E+02 | 2.9E+02 | 3.3E+05 | 9.2E+04 | 1.2E+05 | 1.7E+05 | 2.7E+03 | 8.5E+02 | |
| 29 | 3.1E+05 | 1.4E+01 | 2.7E+02 | 1.6E+01 | 2.0E+01 | | | | 1.2E+02 | 2.5E+00 | 2.1E+04 | 3.3E+02 | 1.3E+04 | 1.5E+02 | 9.9E+01 | 1.2E+05 | 2.4E+04 | 3.9E+04 | 1.8E+04 | 9.0E+02 | 3.9E+03 | |
| 30 | 8.9E+04 | 2.9E+01 | 3.9E+01 | 1.3E+01 | | | | | 2.1E+02 | 7.8E+00 | 3.1E+03 | 6.9E+01 | 1.2E+03 | 1.9E+02 | 4.5E+01 | 1.1E+05 | 3.2E+04 | 3.3E+04 | 5.5E+04 | 5.5E+02 | 2.6E+02 | |
| 31 | 3.4E+05 | 6.6E+01 | 8.3E+02 | | | | | | 5.0E+02 | 1.7E+01 | 1.1E+05 | 4.5E+02 | 3.9E+03 | 7.8E+02 | 3.2E+02 | 3.8E+05 | 1.7E+05 | 1.6E+05 | 1.2E+05 | 2.7E+03 | 2.0E+03 | |
| 32 | 4.1E+04 | 1.1E+01 | 1.5E+01 | 6.8E+00 | | | | | 8.1E+02 | 2.9E+00 | 8.0E+02 | 6.8E+01 | 7.9E+02 | 1.2E+02 | 2.0E+01 | 5.5E+04 | 1.5E+04 | 1.7E+04 | 2.0E+04 | 1.5E+02 | 1.2E+02 | |
| 33 | 8.8E+04 | 1.3E+01 | 2.3E+02 | 4.7E+00 | 9.0E+01 | | | | 1.0E+02 | 3.3E+00 | 8.6E+03 | 1.0E+02 | 7.1E+02 | 1.7E+02 | 5.0E+01 | 6.5E+04 | 1.4E+04 | 2.5E+04 | 2.3E+04 | 3.0E+02 | 3.2E+03 | |
| 34 | 5.7E+04 | 1.3E+01 | 1.3E+02 | 4.3E+00 | | | | | 9.9E+01 | 3.5E+00 | 2.6E+03 | 1.2E+02 | 1.9E+03 | 3.4E+01 | 1.6E+01 | 6.3E+04 | 2.1E+04 | 2.9E+04 | 2.5E+04 | 3.3E+02 | 3.0E+02 | |
| 35 | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 3.1E+05 | 8.9E+01 | 6.3E+02 | | | | | | 6.7E+02 | 2.4E+01 | 1.1E+03 | 7.9E+02 | 5.6E+03 | 7.0E+02 | 2.9E+02 | 3.5E+05 | 1.1E+05 | 1.1E+05 | 1.7E+05 | 3.5E+03 | 4.7E+02 | |
| 37 | 3.2E+05 | 1.9E+01 | 1.0E+03 | 3.4E+01 | 2.1E+01 | | | | 1.6E+02 | 3.9E+00 | 4.1E+03 | 1.1E+02 | 9.8E+03 | 1.7E+03 | 9.1E+01 | 4.9E+05 | 2.5E+04 | 2.9E+04 | 2.8E+04 | 2.4E+02 | 9.7E+03 | |
| 38 | 2.4E+05 | 3.3E+01 | 2.1E+02 | 1.7E+02 | 4.1E+00 | | | | 2.5E+02 | 8.3E+00 | 7.4E+02 | 1.7E+02 | 2.6E+04 | 1.5E+02 | 9.9E+01 | 1.7E+05 | 8.9E+04 | 7.5E+04 | 5.8E+04 | 3.9E+02 | 2.8E+03 | |
| 39 | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 1.8E+05 | 4.5E+00 | 4.9E+01 | 7.6E+00 | 4.0E+00 | 6.8E+01 | | | 8.8E+01 | 1.2E+00 | 2.9E+04 | 3.4E+02 | 9.1E+03 | 1.7E+02 | 3.4E+02 | 6.8E+04 | 4.9E+03 | 8.4E+04 | 3.5E+03 | 1.0E+03 | 5.8E+03 | |
| 41 | | | | | | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 3.0E+05 | 9.0E+01 | 6.0E+02 | | | | | | 6.7E+02 | 2.4E+01 | 4.1E+04 | 9.8E+02 | 1.4E+04 | 6.9E+02 | 2.8E+02 | 3.4E+05 | 7.1E+04 | 9.6E+04 | 1.7E+05 | 1.3E+03 | 4.6E+02 | |
| 45 | 3.3E+05 | 3.2E+01 | 5.1E+02 | 1.1E+02 | 2.9E+02 | 1.7E+01 | | | 3.5E+01 | 9.0E+01 | 1.2E+05 | 9.3E+02 | 6.1E+04 | 7.4E+02 | 2.1E+02 | 3.7E+05 | 8.4E+04 | 9.1E+04 | 2.6E+05 | 8.3E+02 | 4.1E+02 | |
| 46 | 3.5E+05 | 1.3E+02 | 5.7E+02 | 4.6E+01 | | | | | 9.7E+02 | 3.6E+01 | 3.5E+04 | 8.4E+02 | 9.9E+03 | 6.5E+02 | 2.6E+02 | 4.1E+05 | 1.1E+05 | 1.0E+05 | 2.5E+05 | 1.8E+03 | 7.1E+02 | |
| 47 | 2.3E+05 | 6.0E+01 | 5.0E+02 | 2.5E+01 | | | | | 4.5E+02 | 1.6E+01 | 9.3E+03 | 5.6E+02 | 9.8E+03 | 4.3E+02 | 6.8E+01 | 2.6E+05 | 8.3E+04 | 9.4E+04 | 1.1E+05 | 1.4E+03 | 8.4E+02 | |
| 48 | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 9.0E+01 | 9.5E+03 | 4.3E+04 | 5.1E+02 | 3.2E+03 | 3.0E+03 | 2.1E+03 | 1.4E+01 | 7.4E+03 | 1.7E+03 | 3.0E+00 | 1.4E+01 | 4.0E+00 | 1.4E+01 | 1.4E+01 | 4.4E+01 | 3.5E+00 | 5.0E+01 | 2.3E+01 | 2.2E+01 | 3.2E+00 | |
| 50 | | | | | | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | | | | | | |
| Phase Totals | 4.7E+06 | 8.9E+02 | 7.5E+03 | 1.3E+03 | 3.5E+02 | 1.9E+01 | 2.1E+03 | 8.3E+01 | 6.7E+03 | 2.4E+02 | 7.1E+05 | 9.8E+03 | 2.2E+05 | 1.4E+04 | 3.8E+03 | 4.8E+06 | 1.4E+06 | 1.7E+06 | 1.9E+06 | 3.4E+04 | 4.1E+04 | |