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Recommended Values and Technical Bases for Airborne Release Fractions (ARFs), Airborne Release Rates (ARRs), and Respirable Fractions (RFs) for Materials from Accidents in DOE Fuel Cycle, Ex-Reactor Facilities Revision 2

by

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DRAFT Date: April 21, 1993

DRAFT

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RECOMMENDED AIRBORNE RELEASE FRACTIONS AIRBORNE RELEASE RATES AND RESPIRABLE FRACTIONS FOR EVALUATION OF PUBLIC RISK SOURCE TERMS UNDER ACCIDENT CONDITIONS

SUMMARY

This document provides reasonable factors for estimating the radiological source terms in deterministic analyses of upper-bound (worst case) accident scenarios postulated for ex-reactor, fuel cycle facilities. These factors are the Airborne Release Fractions (ARF), or Airborne Release Rate (ARR), and the Respirable Fraction (RF). Factors are developed for different types of materials that can be involved in ex-reactor/fuel cycle process facility accidents: non-condensible gases, vapors, liquids, solids, and surface contamination. Factors are also developed for inadvertent nuclear criticalities that can produce radionuclides. The factors are based on experimental data; a distillation of the experimental conditions is used to support the recommendations of bounding factors for the situations considered. The recommended values for each type of material are briefly summarized below. The Summary Table (found at the end of this summary) provides a quick reference to the values recommended. The reader is strongly encouraged to use the table only as a reference, and thus a cross reference to the document sections that discuss each value is included.

NON-CONDENSIBLE GASES

Total release of non-condensible gases upon loss of containment is assumed. This includes any noble gases generated by inadvertent criticalities in solutions or released into moderator from small diameter pieces of solid or powder. (The expectation is that if the surface to volume ratio is large and the gases generated do not have to migrate through great distances, most of the gases will be released into the moderator and be released into the ambient environment.) If the criticality occurs in large pieces of solid where the surface to volume ratio is small and any gases generated would have to migrate a large distance through the solid to reach the surface, most of the gas will not be released even when heated to high temperature. Even a reduction of material released of a factor of two is not significant when the uncertainty of the estimates is considered. Use of an ARF of 1E+0 is recommended to maintain consistency with releases most realistically anticipated.

VAPORS

Under accident conditions where volatile forms of materials (e.g., iodine, or tritiated water) can be generated, an ARF of 1E+0 is assumed. In the case of criticalities in solutions or moderated/reflected materials, the LeakPath Factor (LPF) of 0.25 assumed in the NRC Reg Guides (NRC April 1977, April 1979, July 1979) is applied to be consistent with these Reg Guides.

LIQUIDS

Experimentally derived data were available that reflect the response of two types of liquids (aqueous and combustible, organic liquids) to the five accident stresses covered (thermal stress, explosion generated forces, venting of pressurized gases over the material, free-fall spill/crush-impact/shock-vibration, and aerodynamic entrainment). The responses are further subdivided by different level of impact generated by the mechanism (e.g., shock and blast effects for explosive releases) and the varying responses of subcategories of some types of materials (e.g., solutions, slurries and viscous solutions of aqueous liquid in free-fall spill). The ARF/RF values for the aqueous liquids for all mechanisms are based upon experimentally derived data. However, for combustible, organic liquids only the response to thermal stress has been determined experimentally. Because the effects of surface tension and viscosity do not appear to be great, the response of combustible, organic liquids to the other mechanism is assumed to be the same as for aqueous liquids.

Aqueous Liquids

Thermal Stress

Heating of Aqueous Solution in Flowing Air without Surface Rupture of Bubbles. Bounding ARF/RF values of 3E-5/1.0 for the airborne release of the bulk liquid during the heating of aqueous solutions in flowing air without noticeable surface breaking of the bubbles of the bulk liquid appear to be conservative based upon the experimental data available. Median values of 6E-7/1.0 are also estimated from the existing data.

Boiling (continuous surface breaking of bubble of the bulk liquid with <30% of the volume of the liquid as bubbles) of Aqueous Solutions in Flowing Air. A bounding ARF for the airborne release from the bubble-burst at the surface for aqueous solutions of 2E-3 exceeds all measured values reported. In the absence of a measured size distribution for the airborne droplets, a conservative value of 1.0 for the bound is assumed. A median value of 1E-3 is selected for the ARF values measured.

Explosive Release

Shock Effects. For detonations or deflagrations in or contiguous to a pool of aqueous liquid, a bounding ARF of the mass of inert material airborne equal to the calculated TNT Equivalent with an RF of 1.0 is recommended.

Blast Effects. For detonations and deflagration at a distance where the pressure impulse is essentially equal to a flow parallel to the surface of the liquid, an ARF of 4E-3/hour (1E-6/second) for the time the pressure pulse is over the liquid. A RF of 1.0 is conservatively assumed.

Some important observations, based upon the review of literature of entrainment of liquid droplets from bubbling or boiling pools performed by Borkowski, Bunz and Schoeck (May 1986), are:

1. the influence of surface effects on the amount and composition of the generated aerosols.

2. the possibility of chemical enrichment and depletion of substances in aerosols.

3. the existence of two groups of droplets with different mean sizes and amounts of airborne mass.

4. the limited range of ejected jet droplets due to initial velocity.

Droplet formation during boiling is dependent upon conditions of boiling and bubble characteristics. There appear to be at least two and possibly three boiling regimes that affect bubble and droplet formation. The first regime occurs at lower rates where the volume fraction of the bubbles is less than 30%, when discrete bubbles rise through the liquid and grow due to decreasing hydrostatic head. Bubbles may coalesce or divide during ascent. Droplets are formed from three mechanisms (bubble film disintegration, jet drops from crater collapse, and secondary droplets from jet drop reentry into bulk liquid). This regime is the predominant concern for fuel cycle accident situations. A second regime occurs at higher boiling rates; the liquid is turbulently mixed and progressively disintegrates at the surface forming drops from both mechanisms. A possible third regime occurs at very high boiling rates when splashing and foaming dominate the surface (Borkowski, Bunz and Sheock May 1986).

Gas flow conditions and material characteristics are important parameters in bubble-induced droplet formation. Bubble size determines the number and size of the droplets formed. Bubble size is determined by the volume of vapor, surface characteristics such as surface tension, and bubble contact angle. Contact angle changes due to local turbulence during bubble formation resulting in a distribution of bubble sizes. Many bubbles are unstable and coalesce and break up during ascent. Steam bubbles are in the range of 0.5 to 5 cm diameter at low pressure and nucleate boiling (presence of rough surface, suspended particles). The formation and detachment of macro-bubbles is a function of contact angle of the liquid and the degree of superheat. Bubble shape at the surface may range from spherical to hemispherical depending on size. The liquid in the dome of the bubble runs down the sides and thins the film. The bubble bursts when the internal pressure exceeds the external pressure and surface tension of the film. Droplets are formed by the film breakup. The crater remaining from the bubble rupture itself collapses forming an ascending liquid jet that decays into droplets after some critical length. Jets ascend up to 20 cm from the surface of the bulk liquid. Jet drops are only formed from bubbles <5 to 6 mm diameter. Droplets

from film breakup are only formed for bubbles >0.2 mm in diameter. Therefore, by inference, only jet drops are formed from bubbles <0.2 mm in diameter and only film breakup droplets are formed from bubbles >6 mm in diameter. The number and size distribution of droplets formed from film breakup correlates with the size of the bubble and may number into the hundreds for the upper limit of bubble diameter. Figure 3-1, taken from the reference document, shows a number distribution from the burst of two bubbles of 0.1% NaCl in water. Only one jet drop ejected from collapse of a bubble ~2-mm diameter with up to 6 ejected from very small diameter bubbles (high internal pressure). The diameter of the drop is ~20% of the bubble diameter (100 to 1000 micrometers for the conditions covered here) (Borkowski, Bunz and Shoeck May 1986).

3.2.1.1 Airborne Release During Heating of Shallow Pools of Liquid

The airborne release during heating of aqueous solution was measured and reported by Mishima, Schwendiman and Radasch (November 1968). This study involved the collection and measurement of airborne Pu during drying of shallow pools of concentrated acidic plutonium nitrate solution at three air velocities and the evaporation of 90% of the volume of a dilute acidic plutonium nitrate solution. Table 3-1 displays measurements extracted from the study reference document (see Table A.1 in Appendix A) and shows the ARFs from evaporation of concentrated plutonium nitrate solutions under three air velocities (0.1, 0.5, and 1.0 m/s). A schematic diagram of the apparatus is shown in Figure A.1 (Appendix A). Approximately 2.5 to 3 ml of a concentrated $Pu(NO_3)_4$ solution containing from 0.72 to 0.86 g Pu were placed in a shallow depression (~25.4-mm diameter x ~2.4-mm deep) in a 31.8-mm diameter x 6.35-mm deep stainless steel dish. The dish was placed in a teflon retainer that filled half of the diameter of a 38.1-mm diameter borosilicate glass tube. Filtered room air was drawn through the tube at three nominal velocities (0.1, 0.5, and 1.0 m/s) over the solution and through a water-cooled condenser to remove excess moisture; the airborne particles were then collected on an in-line glass fiber filter. The liquids were heated to various temperatures by heat lamps positioned over the liquid. The evaporation times ranged from 1.5 to 24 hours. None of the solutions were observed to boil during any of the experiments and the airborne release is most probably due to the aerodynamic breakup of the surface with the increase with temperature due to reduced surface tension. The airborne fractional releases measured are shown in Table 3-. ARFs range from <1E-8 to 3E-5. The highest ARFs were measured at the highest temperature (1E-5 and 3E-5 at 100°C). The limited data also tend to indicate some increase in airborne release with increasing air velocity. The surfaces during the drying were relatively undisturbed (no visible surface disturbance). The upper bound release is 3E-5, and, in as much as the size distribution of the airborne materials was not measured, a conservative value for the RF of 1.0 is selected. The median value is 6E-7 (5.5E-7 rounded upward) with an average value of 7E-6.

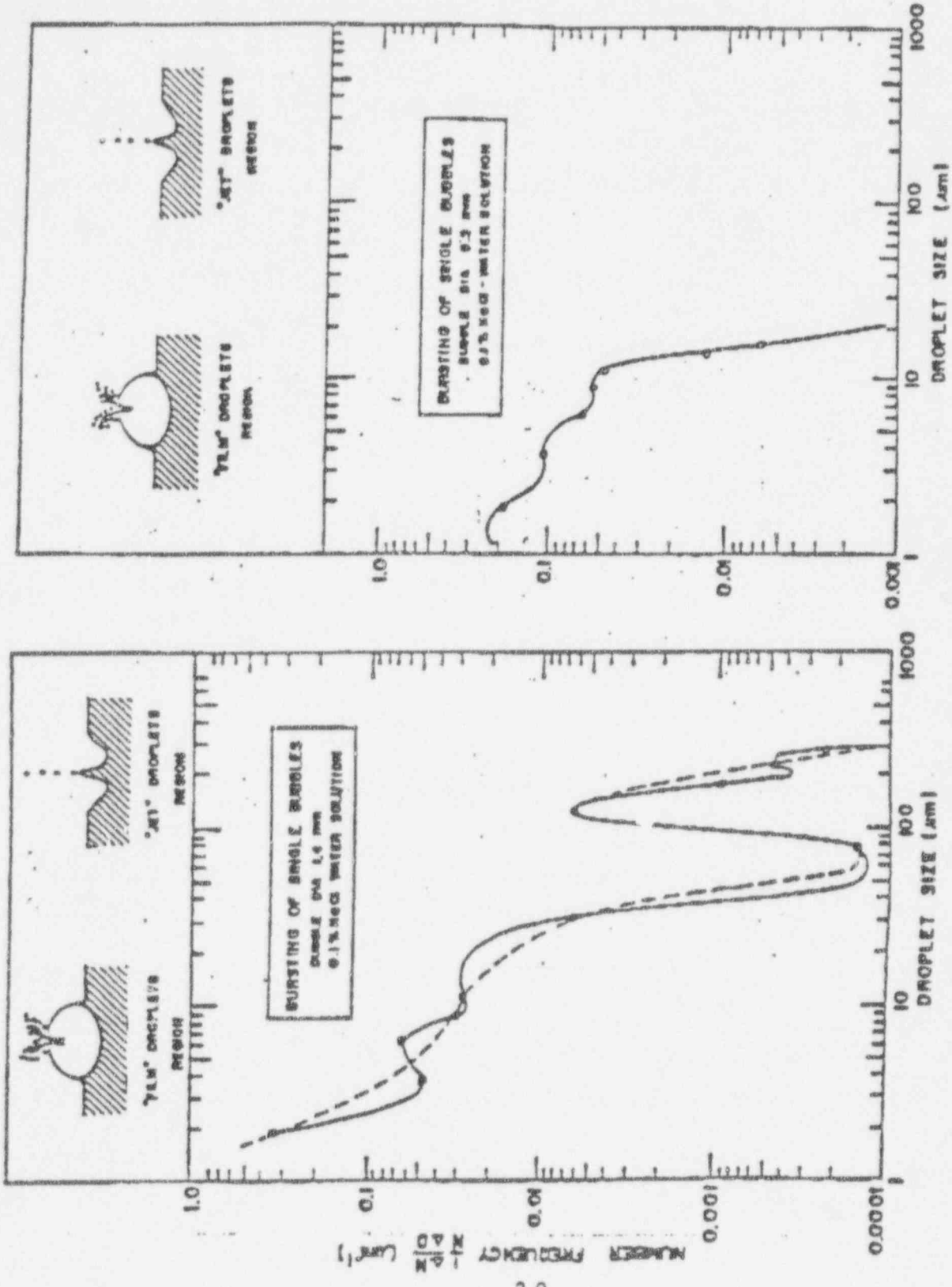


Figure 3-1. Size Distribution of Bubble Induced Droplets
(Borkowski, Lunz, and Schock undated)

Table 3-1. Fractional Airborne Releases During the Heating with Flowing Air of Concentrated Plutonium Nitrate Solution (Table 1 from Mishima, Schwendiman, and Radasch, November 1968)

Temp, °C	Air Velocity, m/s	Sampling Time, hr	ARF
50	1.0	2	1.3E-7
75	0.5	5	< 1.0E-8
90	0.5	2	5.3E-7
90	1.0	1.5	5.7E-7
100	0.1	2	1.0E-5
100	0.5	2	3.0E-5

The data are limited but do appear to consistently indicate a gradual increase in airborne release with temperature until boiling or near boiling temperatures. The air velocity range is very limited although the air velocity probably represents a much greater aerodynamic stress on the surface than the nominal velocity indicates (air velocity measurements are usually at much greater distances from the surface than in the experimental apparatus, and, air being a fluid, the velocity decreases with distance from the surface due to frictional forces). The concentrated plutonium nitrate solution used represents a very important class of liquids found in DOE facilities but its fluid characteristics (higher density, surface tension) may not make it bounding for other aqueous solutions.

3.2.1.2 Airborne Release During the Heating of Pools of Liquids

ARFs were also measured during the evaporation of 90% of the volume of aqueous solutions at three surface disturbance levels: simmering, disturbed surface, and boiling (Mishima, Schwendiman and Radasch November 1968). The results and experimental apparatus from the source document are shown in Table A.2 and Figure A.2, respectively, in Appendix A. In the experiments, 100 ml of a dilute $Pu(NO_3)_4$ solution (0.25 M HNO_3) containing 0.7 mg Pu was placed in a 180 ml borosilicate beaker. The surface area of the liquid was 11.5 cm^2. The beaker was held in the center of a transite support ring that positioned the beaker in a aluminum plate set upon a hot plate. A screen supporting a glass fiber filter filled the annular area between the support ring and beaker and allowed air to be drawn through the 4-liter borosilicate glass bell jar to entrain particulate material escaping from the beaker. The velocity through the annular filter was estimated to be 3 cm/s. The air was drawn out of the top of the bell jar via a water-cooled condenser to remove moisture. The condensate was collected. Airborne material was collected on an in-line glass fiber filter.

The pertinent results are shown in Table 3-2. The ARFs for the four runs at boiling ranged from 4.5E-7 to 1.8E-3. Three of the four values ranged from 3E-4 to 1.8E-3. The two highest values (1.1E-3 and 1.8E-3), because they include solution splattered from the vessel onto the glassware, were estimated by the sum of the filter acid leach and from acid washes of the equipment downstream of the filter position due to loss of the filter. The values are almost certainly high, but it is not known how high. Two of the runs (ARFs 4.5E-7 and 1.1E-3) used a 0.70 mg Pu source without an airflow. The two runs performed at simmering (no surface breaking) resulted in ARFs of 1.3E-6 and 4.5E-6 that are bounded by the evaporation value of 3E-5 quoted in Subsection 3.2.1.1. [illegible] experiments with heating rates resulting in disturbed surfaces generated ARFs ranging from 5.8E-5 to 8.4E-4: an order of magnitude variation in estimates. A bounding value for heating of aqueous solutions of 2E-3 is selected, and, in the absence of a measured particle size distribution, a conservative value for an RF of 1.0 is selected. The median value is 6E-5 (6.4E-5 rounded off) with an average value of 7E-4.

Table 3-2. Fractional Airborne Release During Heating of Pools of Dilute Plutonium Nitrate Solution - 90% Volume Reduction (Table II, Mishima, Schwendiman, and Radasch, November 1968)

Average Hot Plate Temperature, °F	Average Boil-Off Rate, ml/min	Minutes Heated	Appearance Surface	ARF
150	0.6	151	Simmering	4.5E-6
150	0.5	150	Simmering	1.3E-6
164	0.66	121	Disturbed	5.8E-5
175	0.73	124	Disturbed	2.4E-4
188	1.2	64	Disturbed	8.0E-5
190	0.9	80	Disturbed	8.4E-4
200	1.4	66	Boiling	1.1E-3[a,b]
218	1.4	63	Boiling	1.8E-3[a]
218	1.4	59	Boiling	3.0E-4
220	2.1	42	Boiling	4.5E-7[b]

[a] Filter ruptured, estimate based on activity collected in acid washes of equipment downstream of filter position.

[b] Only 0.07 mg Pu used as source. No air sweep used during these experiments. ARF estimate from activity collected in condensate.

The fraction of source material carried from the container and deposited nearby (fallout) ranged from −3E-8 during simmering to 1.7E-2 during boiling and may be indicative of the liquid ejected from the container but not airborne during such event. As with the airborne materials, the fraction ejected will increase with the increase in surface disturbance.

The data are limited for each type of heated liquid. The loss of the filters coupled with not using air sweeps in two of the boiling experiments makes the data for that type of heating especially uncertain. The surface of the heated liquid is recessed from the airflow and may reduce the airborne material due to losses to the sides of the beaker prior to escape. The configuration may be indicative of airborne release from heated liquids from the tops of vessels. The liquids are very dilute aqueous solutions and should bound other more viscous liquids or those with greater surface tension.

3.2.1.3 Airborne Release of Dissolved Matter from Evaporation and Bubbling Aqueous Solution

Borkowski, Bunz, and Schoeck reviewed 12 experimental studies that examined the airborne release of dissolved matter from bubble-burst at the surface of aqueous solutions. The slope of the rate change for fraction entrained as a function of gas velocity changes at a gas velocity of 15 cm/s. The experimental data reported in this region are plotted in Figure 3-2.

The data by Mishima, Schwendiman, and Radasch (November 1968) covered in Subsection 3.2.1.2 are plotted along with data from six other studies under reasonably comparable conditions. Manowitz et al. (1955) measured the DF (decontamination factor, the ratio between the radioactivity retained in the liquid in the vessel to that boiled off) during evaporation of waste solution using a de-entrainment device (not specified). The DFs ranged from 1E-4 to 1E-5 depending upon the boiling rate and contents suspended in solution. Garner et al. (1959) performed experiments at reduced pressures and equilibrium condiditions to identify the main parameters for liquid entrainment during evaporation. Entrainment increased with evaporation rate and decreasing solute concentration. Entrainment rates ranged from 1E-5 to 1E-4. Garner et al. (1954) measured the drop size distribution and total entrainment during evaporation in vessels of various diameters (4-in. and 12-in. diameter tubes). Entrainment rates were in the 1E-5 range. Although ~95% of the drops were <20 micrometers diameter range, the total mass entrained was due to the drops >100 micrometers in diameter. Shor et al. (1957) measured the radioactivity carried over in boilers by continuous monitoring of the $^{137}CsCl$ at elevated pressures (0.93 to 1.0 MPa). Entrainment (1E-6 to 1E-4) correlated with boiling rate and had an initial high release. Heger et al. (1982, 1983) conducted bubbling experiments to simulate reprocessing plant components. Stirring air flow velocity was ~10 m/h (2.8 cm/s). Entrainment values ranged from 1E-7 to 1E-4. The prescence of TBP reduced the surface tension and increased entrainment by a factor of 5 to 10. The drops airborne were bimodally distributed with maxima at 0.3 and 0.8 micrometers diameter. Addition of the TBP increased the generation of larger diameters drops.

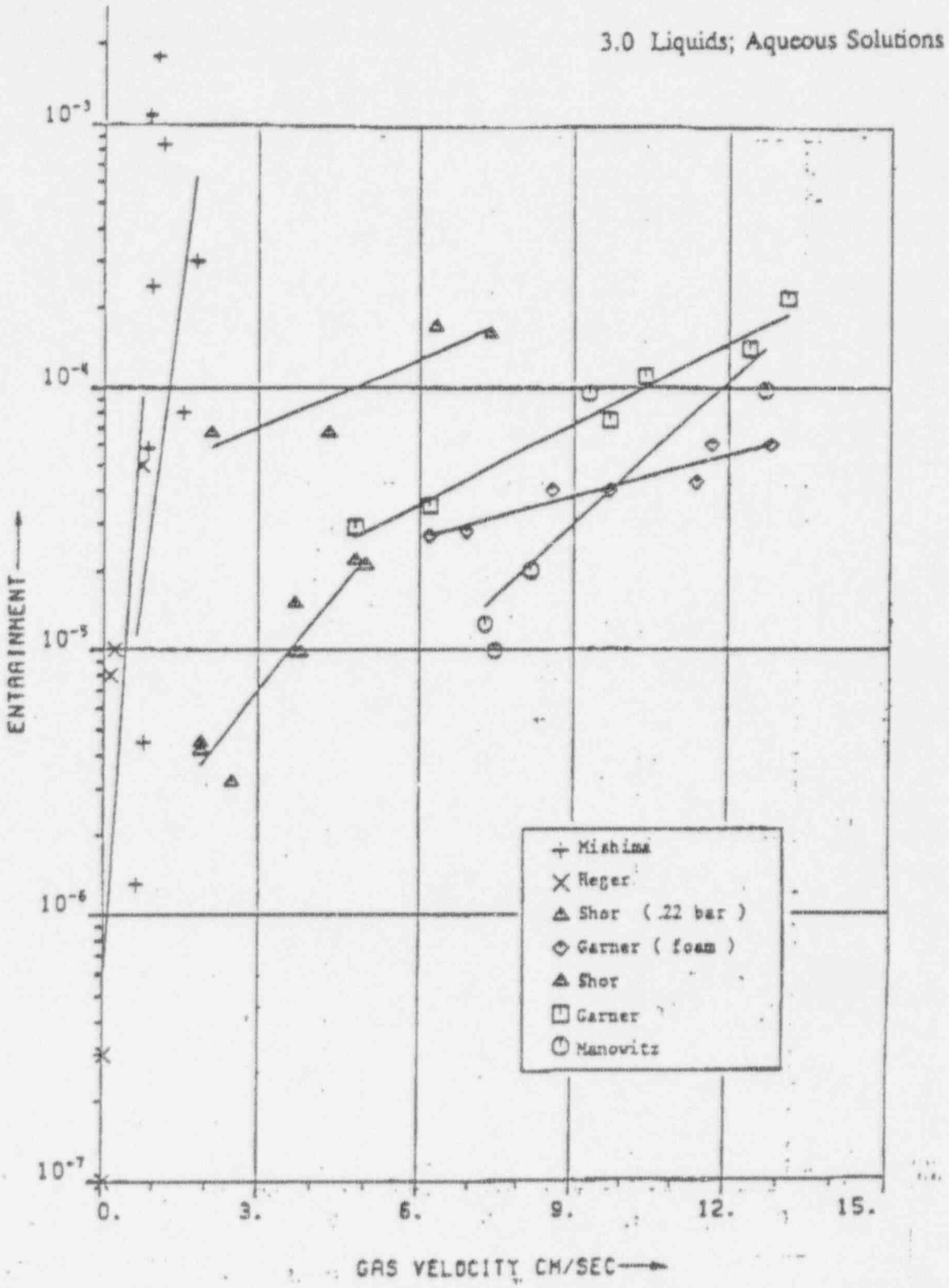


Figure 3-2. Entrainment Data Obtained at Small Gas Velocity (Borkowski, Lunz, and Schock undated)

It is evident that the ARF of 2E-3 measured by Mishima, Schwendiman and Radasch (November 1968) bounds the value measured by the other reported studies. Data generated by the venting of pressurized liquids shown in Figure 3-3 indicate that short of flashing spray conditions (superheating of the liquid by pressurization), a release value in the range of 1E-3 will bound the airborne release of liquids during boiling at normal atmospheric pressures. Thus, a bounding ARF of 2E-3 with an RF of 1.0 would conservatively bound the airborne release of respirable size drops during accident condition resulting in the boiling of aqueous solutions.

3.2.2 Explosive Release of Liquids

Liquids may be subdivided by the shock generated by detonation-like reactions or by shear stress at the surface generated by the accelerated airflow generated by the blast.

3.2.2.1 Shock Effects

Steindler and Seefeldt (1980) provide an empirical correlation to experimental data on the fragmentation of metals and aqueous solution by detonations [energy releases in microseconds with brisance (shattering effect)] (Ayer, et al. May 1988). The experiments covered the work performed by TNT related to the mass ratios (ratio mass of inert to TNT Eq.) of 1 to 10. The experiments were conducted with the condensed phase explosive embedded or contiguous to the material affected. Estimates of the ARF and size distribution for various mass ratios up to 1000 are provided in Appendix C of Ayer, et al. (May 1988) for a GSD (Geometric Standard Deviation, the slope of the line on log probability plot) of 8. The GSD is much greater than normally assumed (GSD 2) and provides greater fractions in the larger size ranges (an unconservative assumption for the assessment of radiological impacts). Due to the rapid change in size distribution, the maximum mass of inert material airborne in the respirable fraction is for an MR of 1. Therefore, a bounding ARF/RF of inert material equal in mass to the TNT Equivalent for the detonation is assumed.

3.2.2.2 Suspension of Liquid Due to Blast Effects (Accelerated Gas Velocities)

Mishima and Schwendiman (August 1973) reported the results of measurements of the airborne release of uranium from various surfaces (soil, vegetated soil, stainless steel, asphalt with UO_2 powder or UNH solution) before, during and after gasoline fires in a wind tunnel at air velocities of ~1 m/s and ~10 m/s. (The flame speed in flammable vapor mixtures is also on the order of 10 m/s, although flame speed may propagate to sonic velocities under turbulent conditions.) The results are listed in Table A.3 and the experimental apparatus is shown in Figure A.3 in Appendix A. The only experiments involving UNH solution were performed on a substrate of loose, sandy soil at air velocities of ~1 & 10 m/s. The ARF measured at 10 m/s from soil during a 28-hour sampling period was 3.9E-4 with an RF of

solutions. The pertinent data extracted from the reference document (Ballinger and Hodgson December 1986) are shown in Table 3-8 (see Tables A.14 and A.15 in Appendix A).

Table 3-8. Measured ARFs/RFs for Free-Fall Spill of Slurries
(1 liter source, 3 meter fall distance)
(Tables B.3 and B.4 - Ballinger and Hodgson, December 1986)

TiO_2, g/l	Glass Frit, g/l	Uranine, g/l	Sucrose, g/l	Viscosity, centipoise	Surface Tension, dyne/cm	SpG	ARF	RF	ARF x RF
10	0	20	250	3.2	58.2	1.12	9.0E-7	0.73	7.0E-6
100	0	20	200	NM	54.5	1.16	1.0E-5	0.64	7.0E-6
40	60	20	335	4.9	64.6	1.19	9.0E-6	0.77	7.0E-6
40	60	20	335	3.1	68.6	1.20	2.0E-5	0.76	1.0E-5
200	300	20	0	1.3	63.1	1.33	5.0E-5	0.78	4.0E-5
200	300	20	0	1.3	63.4	1.35	3.0E-5	0.81	2.0E-5
200	300	20	100	1.3	64.9	1.29	3.0E-5	0.78	2.0E-5
200	300	20	100	2.9	62.8	1.41	2.0E-5	0.72	1.0E-5

The bounding ARF/RF values are 5E-5/0.8 with median and average values of 2E-5/0.7 and 2E-5/0.8, respectively. The empirical model for calculation of ARFs and drop size characteristics was discussed in Subsection 3.2.4.1.

3.2.4.3 Viscous Solutions

Experiments were also performed to measure the ARFs/RFs from the free-fall spill of viscous solutions (Ballinger and Hodgson December 1986). The experimental apparatus is essentially the same as used for the free-fall spill experiments involving aqueous solution and slurries and is shown in Figure A.7 in Appendix A. Table 3-9 is a tabulation of pertinent data taken from the reference source (Tables A.16 and A.17 in Appendix A).

Figure 3-7 from that reference shows the ARF tends to decrease with viscosity. For solutions that have a viscosity >8 centipoise, the ARFs are less than 7E-6 with 0.9 of the airborne material in the respirable size fraction. For the range of experimental conditions (viscosity >1.3 centipoise, surface tension >65 dyne/cm, specific gravity >1.01) the ARF/RF are bounded by 3E-5/0.7 with median values of 6E-6/0.8. The average ARF/RF values were 1E-5/0.8.

3.2.5 Aerodynamic Entrainment (Resuspension) of Liquids

Liquid can be made airborne by the passage of air over its surfaces through either parallel airflow or airflow directed into the surface--"whitecaps," spume, and by film breakup due to capillary action of the liquid up the sides of its container. The latter effect

Table 3-9. Measured ARFs/RFs for Free-Fall Spill of Viscous Solutions
(1 liter source volume, 3 meter fall height)
(Tables B.1 and B.2 - Ballinger and Hodgson, December 1986)

Viscosity, centipoise	Surface Tension, dyne/cm	SpG	ARF	RF	ARF x RF
1.3	65.2	1.01	3.0E-5	0.59	2.0E-5
			3.0E-5	0.74	2.0E-5
2.6	68.9	1.10	7.0E-6	0.70	5.0E-6
			1.0E-5	0.76	8.0E-6
7.9	70.9	1.19	5.0E-6	0.80	3.0E-6
			7.0E-6	0.83	5.0E-6
17.5	77.4	1.23	3.0E-6	0.78	2.0E-6
			3.0E-6	0.90	2.0E-6
46.0	74.5	1.28	2.0E-6	0.84	1.0E-6
			3.0E-6	0.89	2.0E-6

may only be important for situations where the ratio of perimeter distance is a significant fraction of the surface area as in small pools used in experimental studies. Only a thin layer at the surface of the liquid can be involved in droplet formation since the droplets are formed by the film fragments that would not suspend if the film were too thick or the fragments too large. The airborne release fraction for this type of situation has been studied theoretically and measured under two sets of conditions. Calculations indicate that particles held to heterogeneous surface by a layer of water greater than 5 molecules thick cannot be resuspended at superficial gas velocities <5000 m/s (greater than sonic velocities) (Brockman February 1985). Other calculations performed in the paper indicate that the aerodynamic flow profile at the surface may not be properly estimated; particles 10 micrometers in diameter were entrained at the lowest superficial velocity, 1.8 m/s, although most calculations indicate that the minimum velocities are required for particles an order of magnitude larger. Nonetheless, the calculations indicate the force necessary to suspend shallow pools of liquid probably requires substantial superficial velocities for suspension and that release of liquid droplets under most ordinary conditions are very low.

3.2.5.1 Spray Release From Large Outdoor Pond

A model, SPRAYMASS, was developed from empirical formulas representing ocean sprays (Roblyer and Owczarski April 1992). Correlations between wind velocity and fetch (distance from the lee shore where turbulence begins) were developed from sea-salt aerosols (principally during surface breakup of bubbles formed in wave action) in the open sea, finite ponds and diffusion in atmosphere-surface boundary layers. The concentration of aerosol above ocean waves with finite fetch as a function of windspeed has been measured and is represented by:

From Vitrification Process Development

WIN EK:89:0232

Date October 10, 1989

Subject Vitrification Mass Balance Revision Number 7

To

V. S. Arakali	D. E. Carl	D. K. Ploetz
S. M. Barnes	D. D. Daruwalla	J. M. Pope
B. P. Bauer	R. W. Devlin	K. R. Routt
R. R. Borisch*	A. Drobot	M. A. Schiffhauer
B. W. Bowan	J. P. Englert	J. R. Stimmel
P. Burn*	P. S. Klanian*	D. J. Stroud
D. C. Burns	C. W. McVay	R. F. Vance
L. H. Cadoff	L. L. Petkus	

cc: J. J. Buggy, Jr.
R. F. Gessner*
R. E. Lawrence, Jr.*
MRC
VIP 1C01, 1C, 1K

Reference: 1) Letter EK:89:0020, Process Development to Distribution, "Vitrification Mass Balance (Rev. 6)," dated January 27, 1989.
2) Letter W. A. Ross to J. M. Pope, "West Valley Mass Balance Software Development", dated 9/13/89 - BW:89:0185 - WVSP 89-132.

SYNOPSIS:

The overall mass balance for Vitrification is reissued periodically to maintain a current reference. Revision 7, as documented by this letter and attachments, incorporates the combining of the Tank Farm and Vitrification spreadsheets into one Lotus file and a number of other changes in process parameters and spreadsheet format as detailed in Reference 2 and summarized in this letter.

The vitrification mass balance is maintained using Lotus (Rev. 2) software. All mass balance revisions are stored on High Density 3 1/2 inch format diskettes. The first five revisions are stored as Rev1FLST, ..., Rev5FLST. Revision 6 is stored in two files labeled WVTFPR6 and WVVR6. Revision 7 is stored in one file as CMB7.

*W/O Attachments

DMS0102

Component concentrations are based on analytical work done in previous years and reported in earlier flowsheet versions.

One of the major upgrades to the Flowsheet was to combine all the input parameters into one range area for ease of presentation. The input parameter values used in Rev. 7 are as follows:

* Year radionuclides decayed to = 1990
* Water level in 8D-1 = 6 feet
* Rust in 8D-1 and 8D-2 as Fe203 pounds = 0
* Dirt in 8D-1 as SiO2 = 11,00 pounds
* Cesium-137 activity as of 10/22/84 = 625 Curies
* Strontium-90 activity as of 10/22/84 = 625 Curies
* Supernatant pump heel = 1 foot
* Pre-washed sludge height = 1.5 feed
* Post wash sludge height = 3.0 feet
* Number of washes = 4
* Water volume per wash = 632,000 liters
* Wash supernatant heel = 1 foot
* 8D-2 supernatant processed per cycle = 36,000 liters
* 8D- wash solution processed per cycle = 292,368 liters
* Water produced in 8D-1 per 1X cycle = 2,907 liters
* Zeolite produced in 8D-1 per 1X cycle = 1,200 liters
* Fraction of Cesium recovered = 0.999
* Total number of sand beds = 1
* 8D-4 water flush = 6,400
* Waste Oxide Loading = 36.5 wt %
* Melter feed concentration (oxide basis) = 450 g/l
* Melter feed batch size in MFHT = 3250 gallons

* Jet Dilution = 10%

* Feed water dilution factor = 1.0

* Glass per canister = 1900 Kg

* Glass production rate = 45 kg/hr

THIS PARAMETER LISTING IS NOT ALL INCLUSIVE. THESE ARE THE PARAMETERS MOST LIKELY TO CHANGE DURING DEVELOPMENT AND TESTING OF THE MELTER SYSTEMS.

The primary advantage in isolating key input parameters in one table is for easy review and co-ordination with other support groups.

Tank farm and vitrification spreadsheets were combined in order to facilitate response to "what if" scenarios in regard to tank farm operations. The combined spreadsheet allows for expedient evaluation of impact on vitrification processes, especially the total quantity of glass that will be produced.

Other modifications are detailed as follows:

* A number of makeup chemicals have been changed and these changes have been incorporated into the spreadsheet.

* Current values for feed concentration, production rate, and glass per canister are used.

* A row showing the total sulfate as SO3 and total sulfate as wt% oxide basis for each stream have been added to the bottom of the spreadsheet to provide more visibility to this key parameter.

* Total glass production is calculated three different ways. As the sum of the components. A total concentrated feed divided by the waste loading fraction. And as the sum of the glass formers and concentrated feed. These are listed on last page of matrix and agree within 2%.

* Decontamination factors have been organized into a summary table for easy reference.

* Key glass components have been listed in table form and provided for simple reference to current target glass composition. This table is interactive with the spreadsheet.

* The software is now capable of updating SVS parameters over a range of temperatures and determining the extent of steam condensation.

* Units were included at the top of each stream column for the chemical balance, radionuclide balance, and oxide balance ranges.

* The glass composition was changed from ATM-10 to reference 4, and the accompanying waste loading was also changed.

Ongoing Activities

* Key components are being set up with individual mass balances to be used as an accuracy check and to support development of a simple flowsheet verification routine.

* FY'1989 Sludge Sampling will be completed by the end of October. This will provide the most extensive analytical data to date. Characterization results should be available in early 1990 and will be used so support Rev. 8 update.

* The benefits of integrating the mass balance spreadsheet with a data base program such as dBIV or R-Base are being evaluated. The database format may provide for much simpler input/modification and verification of the spreadsheet.

R. L. Crocker, Principal Engineer
West Valley Nuclear Services Co., Inc.

RLC:dms

Attachment

DMS0102

ATTACHMENT

MASS BALANCE:

STREAM NUMBER STREAM NAME COMPONENT KG	MOLECULAR WEIGHT	D 1 THOREX SUPERNATANT 2/26/87 kg	E 2 THOREX SLUDGE 2/26/87 kg	F 3 THOREX WASTE 2/26/87 kg	G 4 PUREX SUPERNATANT kg	H 5 PUREX SLUDGE 1/31/89 kg	I 6 PUREX WASTE kg	J 7 801 CONDENSATE kg
H2O	18.02	34,148	0	34,148	1,727,164	0	1,727,164	654,000
Ag	107.87			0.00			0.00	
AgNO3	169.89	0.08	0.00	0.08			0.00	
Ag2O	231.74			0.00			0.00	
AgOH	124.88			0.00	0.00	0.70	0.70	
AlF3	83.98			0.00	77.00	536.00	613.00	
Al(NO3)3	213.00	4,175.00	0.00	4,175.00			0.00	
Al2O3	101.96			0.00			0.00	
Al(OH)3	78.00			0.00	0.00	5,852.00	5,852.00	
Am(OH)3	294.00			0.00			0.00	
Am(NO3)3	429.00			0.00			0.00	
Am2O3	534.30			0.00	0.00	27.00	27.00	
B2O3	69.62			0.00			0.00	
Ba(NO3)2	261.35	27.00	0.00	27.00			0.00	
BaO	153.32			0.00			0.00	
BaSO4	233.40			0.00	0.00	303.00	303.00	
C	12.00			0.00			0.00	
(CH2)10	140.00			0.00			0.00	
CaCO3	100.09			0.00	0.00	3,208.00	3,208.00	
CaC2O4	128.12			0.00			0.00	
CaF2	78.08			0.00			0.00	
Ca(NO3)2	164.09	30.00	0.00	30.00			0.00	
CaO	56.08			0.00			0.00	
Ca(OH)2	74.09			0.00			0.00	
Ca3(PO4)2	310.18			0.00			0.00	
CaSO4	136.14			0.00			0.00	
Cd(NO3)2	236.41	0.30	0.00	0.30			0.00	
CdO	128.40			0.00			0.00	
Cd(OH)2	146.11			0.00	0.00	1.70	1.70	
Ce(NO3)3	326.23	43.00	0.00	43.00			0.00	
Ce2O3	328.24			0.00			0.00	
Ce(OH)3	191.14			0.00	0.00	354.00	354.00	
Cm(NO3)3	433.00			0.00			0.00	
Cm2O3	542.00			0.00	0.00	0.40	0.40	
Cm(OH)3	298.00			0.00			0.00	
Co	58.93			0.00			0.00	
Co(NO3)2	183.04	3.00	0.00	3.00			0.00	
CoO	74.93			0.00			0.00	
Co(OH)2	92.95			0.00			0.00	
Cr(NO3)3	238.15	1,918.00	0.00	1,918.00			0.00	
Cr2O3	152.02			0.00			0.00	
CrO3	99.99			0.00			0.00	
Cr(OH)3	103.02			0.00	0.00	65.00	65.00	
CsNO3	194.91	28.00	0.00	28.00	534.00	0.00	534.00	
CsCl (SW)	168.36			0.00			0.00	
Cs2O	281.81			0.00			0.00	
spare	281.81			0.00			0.00	
Cu	63.55			0.00			0.00	
Cu(NO3)2	187.60	0.80	0.00	0.80	6.00	0.00	6.00	
CuO	79.54			0.00			0.00	
Cu(OH)2	97.55			0.00	0.00	376.00	376.00	
CuSO4	159.61			0.00			0.00	
Dy(NO3)3	348.50	0.00	0.00	0.00			0.00	
Dy2O3	373.00			0.00			0.00	
Dy(OH)3	213.52			0.00			0.00	
Eu(NO3)3	338.07	1.00	0.00	1.00			0.00	
Eu2O3	351.92			0.00			0.00	
Eu(OH)3	202.96			0.00	0.00	7.50	7.50	
Fe	55.85			0.00			0.00	
Fe(NO3)3	242.02	8,462.00	0.00	8,462.00	45.00	0.00	45.00	
FeO	71.85			0.00			0.00	
Fe(OH)3	106.86			0.00	0.00	66,040.00	66,040.00	
Fe2O3	159.69			0.00			0.00	0.00
FePO4	150.85			0.00	0.00	6,351.00	6,351.00	
Gd(NO3)3	343.36	0.40	0.00	0.40			0.00	
Gd2O3	362.50			0.00			0.00	
Gd(OH)3	208.27			0.00	0.00	1.70	1.70	
Ge(NO3)4	320.59	0.02	0.00	0.02			0.00	
GeO2	104.59			0.00			0.00	
Ge(OH)4	140.59			0.00			0.00	
H3BO3	61.83	480.00	0.00	480.00			0.00	
H2CO3	62.03			0.00	9.00	0.00	9.00	
H2C2O4	90.00			0.00			0.00	
HCl	36.46			0.00			0.00	
HF	20.01			0.00			0.00	
HNO3	63.02	2,805.00	0.00	2,805.00			0.00	
H2SO4	98.07			0.00			0.00	
Hg	200.59			0.00			0.00	
Hg2Cl2	472.09			0.00			0.00	
Hg2I2	654.99			0.00			0.00	
Hg(NO3)2	324.63			0.00			0.00	
HgO	216.61			0.00			0.00	
Hg(OH)2	234.59			0.00	0.00	23.00	23.00	
In(NO3)3	300.88	0.04	0.00	0.04			0.00	
In2O3	277.64			0.00			0.00	
In(OH)3	165.84			0.00	0.00	0.30	0.30	
K2CrO4	194.20			0.00	5,113.00	0.00	5,113.00	
KMnO4	197.12	98.00	0.00	98.00			0.00	
KNO3	101.10	191.00	0.00	191.00	36,274.00	0.00	36,274.00	
K2O	94.20			0.00			0.00	
KOH	56.11			0.00			0.00	
La(NO3)3	325.02	22.00	0.00	22.00			0.00	
La2O3	325.82			0.00			0.00	
La(OH)3	189.93			0.00	0.00	185.00	185.00	
LiOH	23.95			0.00			0.00	
LiNO3	68.94			0.00	14.00	0.00	14.00	
Li2O	29.88			0.00			0.00	
MgCO3	84.32			0.00	0.00	826.00	826.00	
Mg(NO3)2	148.41	57.00	0.00	57.00	2.00	0.00	2.00	
MgO	40.32			0.00			0.00	
Mg(OH)2	58.33			0.00			0.00	
Mn(NO3)2	179.05			0.00			0.00	
MnO	70.94			0.00			0.00	
MnO2	86.94			0.00	0.00	4,581.00	4,581.00	
Mn(OH)2	88.95			0.00			0.00	
MoO3	143.95			0.00			0.00	
Na3BO3	127.79			0.00	597.00	0.00	597.00	
Li3PO4	115.90			0.00			0.00	
Na2B4O7	201.27			0.00			0.00	
Na2C2O4	134.01			0.00			0.00	
Na2CO3	106.00			0.00	25,249.00	0.00	25,249.00	
NaCl	58.45	50.00	0.00	50.00	4,684.00	0.00	4,684.00	
spare	58.45			0.00			0.00	
Na2CrO4	161.97			0.00			0.00	
NaF	41.99	1.00	0.00	1.00	503.00	0.00	503.00	
NaH2PO4	120.00			0.00			0.00	
NaHCO3	84.01			0.00	42,557.00	0.00	42,557.00	
NaI	149.92			0.00			0.00	
H3PO4	98.00			0.00			0.00	
Na2MoO4	205.95	54.00	0.00	54.00	691.00	0.00	691.00	
NaNO2	69.00			0.00	311,326.00	0.00	311,326.00	
NaNO3	85.01	227.00	0.00	227.00	602,659.00	0.00	602,659.00	
Na2O	61.98			0.00			0.00	
NaOH	40.01			0.00	17,537.00	0.00	17,537.00	
Na3PO4	163.94	12.00	0.00	12.00	3,799.00	0.00	3,799.00	
Na2PuO2(OH)4	395.00			0.00			0.00	
Na2RhO4	212.91			0.00			0.00	
Na2RuO4	211.07			0.00			0.00	
Na2SO4	142.06	180.00	0.00	180.00	76,261.00	0.00	76,261.00	
Na2SeO4	188.96	1.00	0.00	1.00	15.00	0.00	15.00	
Na2SiO3	122.08	126.00	0.00	126.00			0.00	
NaTcO4	186.00	11.00	0.00	11.00	177.00	0.00	177.00	
Na2TeO4	237.58	5.00	0.00	5.00	82.00	0.00	82.00	
Na2U2O7	634.00			0.00	231.00	0.00	231.00	
Nd(NO3)3	330.35	73.00	0.00	73.00			0.00	
Nd2O3	336.48			0.00			0.00	
Ni(NO3)2	254.26			0.00	0.00	621.00	621.00	

NiO	74.71				0.00			0.00	
Ni(OH)2	92.74				0.00	0.00	1,088.00	1,088.00	
Np(NO3)4	485.00		0.90	0.00	0.90			0.00	
NpO2	269.05				0.00	0.00	35.00	35.00	
Np(OH)4	301.00				0.00			0.00	
P2O5	141.95				0.00			0.00	
Pa(NO3)4	279.04		0.70	0.00	0.70			0.00	
PaO2	263.04				0.00			0.00	
Pa(OH)4	299.04				0.00			0.00	
Pd	106.40				0.00			0.00	
Pd(NO3)2	230.42		0.00	0.00	0.00			0.00	
PdO	122.40				0.00			0.00	
Pd(OH)2	140.40				0.00	0.00	34.00	34.00	
Pm(NO3)3	333.00		0.01	0.00	0.01			0.00	
Pm2O3	341.80				0.00			0.00	
Pm(OH)3	197.90				0.00	0.00	1.50	1.50	
Pr(NO3)3	326.91		21.00	0.00	21.00			0.00	
Pr2O3	329.81				0.00			0.00	
Pr(OH)3	191.93				0.00	0.00	170.00	170.00	
Pu(NO3)4	488.16		0.70	0.00	0.70			0.00	
PuO2	271.05				0.00	0.00	37.00	37.00	
RbNO3	147.47		6.00	0.00	6.00	115.00	0.00	115.00	
Rb2O	186.94				0.00			0.00	
Rh	102.91				0.00			0.00	
Rh(NO3)4	350.91		11.00	0.00	11.00			0.00	
RhO2	134.90				0.00			0.00	
Rh(OH)4	170.91				0.00	0.00	79.00	79.00	
Ru	101.07				0.00			0.00	
Ru(NO3)4	349.07		42.00	0.00	42.00			0.00	
RuO2	133.07				0.00			0.00	
sperm	165.07				0.00			0.00	
Ru(OH)4	169.07				0.00	0.00	458.00	458.00	
SO3	80.07				0.00			0.00	
Sb(NO3)3	307.75		0.10	0.00	0.10			0.00	
Sb2O3	291.50				0.00			0.00	
Sb(OH)3	172.75				0.00	0.00	0.70	0.70	
SeO2	110.96				0.00			0.00	
Si(NO3)4	276.10				0.00	230.00	0.00	230.00	
SiO2	60.08				0.00	0.00	1,265.00	1,265.00	5,000.00
Sm(NO3)3	336.46		14.00	0.00	14.00			0.00	
Sm2O3	348.70				0.00			0.00	
Sm(OH)3	201.37				0.00	0.00	143.00	143.00	
Sn(NO3)4	366.71		0.70	0.00	0.70	245.00	0.00	245.00	
SnO2	150.70				0.00			0.00	
Sn(OH)4	186.69				0.00	0.00	2.50	2.50	
SrCO3	147.64				0.00			0.00	
Sr(NO3)2	211.63		16.00	0.00	16.00	4.00	0.00	4.00	
SrO	103.63				0.00			0.00	
Sr(OH)2	121.64				0.00			0.00	
SrSO4	183.70				0.00	0.00	217.00	217.00	
SUGAR(C12H22O11	342.30				0.00			0.00	
Tb(NO3)3	345.00		0.00	0.00	0.00			0.00	
Tb2O3	365.85				0.00			0.00	
Tb(OH)3	209.93				0.00			0.00	
Tc2O7	309.81				0.00			0.00	
TeO2	159.60				0.00			0.00	
Th(NO3)4	480.06		31,054.00	0.00	31,054.00			0.00	
ThO2	264.05				0.00			0.00	
Th(OH)4	300.04				0.00			0.00	
TiO2	79.90				0.00			0.00	
UO2(NO3)2	394.10		6.00	0.00	6.00			0.00	
UO2	270.07				0.00			0.00	
UO3	286.07				0.00			0.00	
UO2(OH)2	304.07				0.00	0.00	3,087.00	3,087.00	
V2(CO3)3	357.86				0.00			0.00	
V(NO3)3	275.00		14.00	0.00	14.00			0.00	
V2O5	225.81				0.00			0.00	
V(OH)3	139.93				0.00	0.00	103.00	103.00	
sperm	1.00				0.00			0.00	
Zn(NO3)2	189.47		10.00	0.00	10.00			0.00	
ZnO	81.37				0.00			0.00	
Zn(OH)2	99.37				0.00		128.00	128.00	
Zr(NO3)4	339.23		12.00	0.00	12.00			0.00	
ZrO2	123.22			35.00	35.00			0.00	
Zr(OH)4	159.25			0.00	0.00	0.00	964.00	964.00	
TOTAL SOLIDS			51,090	35	51,125	1,129,038	57,171	1,226,209	5,000
CO	28.01				0.00E+00			0.00E+00	
CO2	44.01				0.00E+00			0.00E+00	
H2	2.02				0.00E+00			0.00E+00	
N2	28.01				0.00E+00			0.00E+00	
NO	30.01				0.00E+00			0.00E+00	
NO2	46.01				0.00E+00			0.00E+00	
O2	32.00				0.00E+00			0.00E+00	
SO3	80.00				0.00E+00			0.00E+00	
TOTAL BASES EXCL H2O & TRACES			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER RADIONUCLIDE	HALF LIFE	HEAT GENERATION	1 THOREX SUPERNATANT	2 THOREX SLUDGE	3 THOREX WASTE	4 PUREX SUPERNATANT	5 PUREX SLUDGE	6 PUREX WASTE	7 801 CONDENSATE
CURIE	YEARS	WATTS/CURIE	1990	1990	1990	1990	1990	1990	

8 BD2 CHEMICAL ADD	9 BD2 WATER ADD	10 ADJUSTED PUREX WASTE	11 DECANTED PUREX SUPERNATANT	12 DECANTED PUREX SLUDGE	13 SLUDGE WASH WATER	14 IX ZEOLITE SLURRY BD1	15 SAND FILTER SLURRY BD1	16 SLUDGE WASH SUPERNATANT	17 WASHED PUREX SLUDGE
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
	H2O	1,727,164	1,539,418	187,749	1,610,628	191,743	3,000	2,364,800	408,300
	Ag	0.00	0.00	0.00				0.00	0.00
	AgNO3	0.00	0.00	0.00				0.00	0.00
	Ag2O	0.00	0.00	0.00				0.00	0.00
	AgOH	0.70	0.00	0.70				0.00	0.70
	Al(NO3)3	613.00	58.63	544.37				8.13	536.24
	Al2O3	0.00	0.00	0.00		8,668.60		0.00	0.00
	Al(OH)3	5,852.00	0.00	5,852.00				0.00	5,852.00
	Am(OH)3	0.00	0.00	0.00				0.00	0.00
	Am(NO3)3	0.00	0.00	0.00				0.00	0.00
	Am2O3	27.00	0.00	27.00				0.00	27.00
	B2O3	0.00	0.00	0.00				0.00	0.00
	Ba(NO3)2	0.00	0.00	0.00				0.00	0.00
	BaO	0.00	0.00	0.00		50.33		0.00	0.00
	BaSO4	303.00	0.00	303.00				0.00	303.00
	C	0.00	0.00	0.00				0.00	0.00
	(CH2)10	0.00	0.00	0.00				0.00	0.00
	CaCO3	3,208.00	0.00	3,208.00				0.00	3,208.00
	CaC2O4	0.00	0.00	0.00				0.00	0.00
	CaF2	0.00	0.00	0.00				0.00	0.00
	Ca(NO3)2	0.00	0.00	0.00				0.00	0.00
	CaO	0.00	0.00	0.00		618.15		0.00	0.00
	Ca(OH)2	0.00	0.00	0.00				0.00	0.00
	Ca3(PO4)2	0.00	0.00	0.00				0.00	0.00
	CaSO4	0.00	0.00	0.00				0.00	0.00
	Cd(NO3)2	0.00	0.00	0.00				0.00	0.00
	CdO	0.00	0.00	0.00				0.00	0.00
	Cd(OH)2	1.70	0.00	1.70				0.00	1.70
	Ce(NO3)3	0.00	0.00	0.00				0.00	0.00
	Ce2O3	0.00	0.00	0.00				0.00	0.00
	Ce(OH)3	354.00	0.00	354.00				0.00	354.00
	Cm(NO3)3	0.00	0.00	0.00				0.00	0.00
	Cm2O3	0.40	0.00	0.40				0.00	0.40
	Cm(OH)3	0.00	0.00	0.00				0.00	0.00
	Co	0.00	0.00	0.00				0.00	0.00
	Co(NO3)2	0.00	0.00	0.00				0.00	0.00
	CoO	0.00	0.00	0.00				0.00	0.00
	Co(OH)2	0.00	0.00	0.00				0.00	0.00
	Cr(NO3)3	0.00	0.00	0.00				0.00	0.00
	Cr2O3	0.00	0.00	0.00				0.00	0.00
	CrO3	0.00	0.00	0.00				0.00	0.00
	Cr(OH)3	65.00	0.00	65.00				0.00	65.00
	CsNO3	534.00	475.95	58.05				56.41	1.63
	CsCl(SV)	0.00	0.00	0.00				0.00	0.00
	Cs2O	0.00	0.00	0.00		384.47		0.00	0.00
	eberie	0.00	0.00	0.00				0.00	0.00
	Cu	0.00	0.00	0.00				0.00	0.00
	Cu(NO3)2	6.00	5.35	0.65				0.63	0.02
	CuO	0.00	0.00	0.00				0.00	0.00
	Cu(OH)2	376.00	0.00	376.00				0.00	376.00
	CuSO4	0.00	0.00	0.00				0.00	0.00
	Dy(NO3)3	0.00	0.00	0.00				0.00	0.00
	Dy2O3	0.00	0.00	0.00				0.00	0.00
	Dy(OH)3	0.00	0.00	0.00				0.00	0.00
	Eu(NO3)3	0.00	0.00	0.00				0.00	0.00
	Eu2O3	0.00	0.00	0.00				0.00	0.00
	Eu(OH)3	7.50	0.00	7.50				0.00	7.50
	Fe	0.00	0.00	0.00				0.00	0.00
	Fe(NO3)3	43.00	38.33	4.67				4.54	0.13
	FeO	0.00	0.00	0.00				0.00	0.00
	Fe(OH)3	66,040.00	0.00	66,040.00				0.00	66,040.00
	Fe2O3	0.00	0.00	0.00		1,957.43		0.00	0.00
	FePO4	6,351.00	0.00	6,351.00				0.00	6,351.00
	Gd(NO3)3	0.00	0.00	0.00				0.00	0.00
	Gd2O3	0.00	0.00	0.00				0.00	0.00
	Gd(OH)3	1.70	0.00	1.70				0.00	1.70
	Ge(NO3)4	0.00	0.00	0.00				0.00	0.00
	GeO2	0.00	0.00	0.00				0.00	0.00
	Ge(OH)4	0.00	0.00	0.00				0.00	0.00
	H3BO3	0.00	0.00	0.00				0.00	0.00
	H2CO3	9.00	8.02	0.98				0.95	0.03
	H2C2O4	0.00	0.00	0.00				0.00	0.00
	HCl	0.00	0.00	0.00				0.00	0.00
	HF	0.00	0.00	0.00				0.00	0.00
	HNO3	0.00	0.00	0.00				0.00	0.00
	H2SO4	0.00	0.00	0.00				0.00	0.00
	Hg	0.00	0.00	0.00				0.00	0.00
	Hg2Cl2	0.00	0.00	0.00				0.00	0.00
	Hg2I2	0.00	0.00	0.00				0.00	0.00
	Hg(NO3)2	0.00	0.00	0.00				0.00	0.00
	HgO	0.00	0.00	0.00				0.00	0.00
	Hg(OH)2	23.00	0.00	23.00				0.00	23.00
	In(NO3)3	0.00	0.00	0.00				0.00	0.00
	In2O3	0.00	0.00	0.00				0.00	0.00
	In(OH)3	0.30	0.00	0.30				0.00	0.30
	K2CrO4	5,113.00	4,557.20	555.80				540.18	15.62
	KMnO4	0.00	0.00	0.00				0.00	0.00
	KNO3	36,274.00	32,330.89	3,943.11				3,832.09	111.02
	K2O	0.00	0.00	0.00				0.00	0.00
	KOH	0.00	0.00	0.00				0.00	0.00
	La(NO3)3	0.00	0.00	0.00				0.00	0.00
	La2O3	0.00	0.00	0.00				0.00	0.00
	La(OH)3	185.00	0.00	185.00				0.00	185.00
	LiOH	0.00	0.00	0.00				0.00	0.00
	LiNO3	14.00	12.48	1.52				1.48	0.04
	Li2O	0.00	0.00	0.00				0.00	0.00
	MgCO3	826.00	0.00	826.00				0.00	826.00
	Mg(NO3)2	2.00	1.78	0.22				0.21	0.01
	MgO	0.00	0.00	0.00		391.49		0.00	0.00
	Mg(OH)2	0.00	0.00	0.00				0.00	0.00
	Mn(NO3)2	0.00	0.00	0.00				0.00	0.00
	MnO	0.00	0.00	0.00				0.00	0.00
	MnO2	4,581.00	0.00	4,581.00				0.00	4,581.00
	Mn(OH)2	0.00	0.00	0.00				0.00	0.00
	MoO3	0.00	0.00	0.00		16.78		0.00	0.00
	Na3BO3	597.00	532.10	64.90				63.07	1.83
	Li3PO4	0.00	0.00	0.00				0.00	0.00
	Na2B4O7	0.00	0.00	0.00				0.00	0.00
	Na2C2O4	0.00	0.00	0.00				0.00	0.00
	Na2CO3	25,249.00	22,504.35	2,744.65				2,667.38	77.27
	NaCl	4,680.00	4,174.83	505.17				494.83	14.34
	eberie	0.00	0.00	0.00				0.00	0.00
	Na2CrO4	0.00	0.00	0.00				0.00	0.00
	NaF	503.00	448.32	54.68				53.14	1.54
	NaH2PO4	0.00	0.00	0.00				0.00	0.00
	NaHCO3	42,557.00	37,930.91	4,626.09				4,495.85	130.24
	NaI	0.00	0.00	0.00				0.00	0.00
	K3PO4	0.00	0.00	0.00				0.00	0.00
	Na2HgO2	691.00	615.89	75.11				73.00	2.11
	NaNO2	311,326.00	277,483.81	33,842.19				32,883.39	952.41
	NaNO3	602,659.00	537,147.93	65,511.07				63,666.66	1,844.41
	Na2O	0.00	0.00	0.00		3,330.29		0.00	0.00
	NaOH	17,537.00	15,630.67	1,906.33				1,852.64	53.69
	Na3PO4	3,799.00	3,386.04	412.96				401.34	11.62
	Na2PuO2(OH)4	0.00	0.00	0.00				0.00	0.00
	Na2RhO4	0.00	0.00	0.00				0.00	0.00
	Na2RuO4	0.00	0.00	0.00				0.00	0.00
	Na2SO4	76,241.00	67,971.17	8,289.83				8,056.44	233.39
	Na2SeO4	18.00	15.37	1.63				1.58	0.05
	Na2SiO3	0.00	0.00	0.00				0.00	0.00
	NaTcO4	177.00	157.76	19.24				18.70	0.54
	Na2TeO4	82.00	73.09	8.91				8.66	0.25
	Na2U2O7	231.00	205.89	25.11				24.40	0.71
	Nd(NO3)3	0.00	0.00	0.00				0.00	0.00
	Nd2O3	0.00	0.00	0.00				0.00	0.00
	Ni(OH)2	621.00	0.00	621.00				0.00	621.00

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]
NiO	0.00	0.00	0.00				0.00	0.00
Ni(OH)2	1,088.00	0.00	1,088.00				0.00	1,088.00
Np(NO3)4	0.00	0.00	0.00				0.00	0.00
NpO2	35.00	0.00	35.00				0.00	35.00
Np(OH)4	0.00	0.00	0.00				0.00	0.00
P2O5	0.00	0.00	0.00				0.00	0.00
Pa(NO3)4	0.00	0.00	0.00				0.00	0.00
PaO2	0.00	0.00	0.00				0.00	0.00
Pa(OH)4	0.00	0.00	0.00				0.00	0.00
Pd	0.00	0.00	0.00				0.00	0.00
Pd(NO3)2	0.00	0.00	0.00				0.00	0.00
PdO	0.00	0.00	0.00				0.00	0.00
Pd(OH)2	34.00	0.00	34.00				0.00	34.00
Pm(NO3)3	0.00	0.00	0.00				0.00	0.00
Pm2O3	0.00	0.00	0.00				0.00	0.00
Pm(OH)3	1.50	0.00	1.50				0.00	1.50
Pr(NO3)3	0.00	0.00	0.00				0.00	0.00
Pr2O3	0.00	0.00	0.00				0.00	0.00
Pr(OH)3	170.00	0.00	170.00				0.00	170.00
Pu(NO3)4	0.00	0.00	0.00				0.00	0.00
PuO2	37.00	0.00	37.00				0.00	37.00
RbNO3	119.00	106.06	12.94				12.57	0.36
Rb2O	0.00	0.00	0.00				0.00	0.00
Rh	0.00	0.00	0.00				0.00	0.00
Rh(NO3)4	0.00	0.00	0.00				0.00	0.00
RhO2	0.00	0.00	0.00				0.00	0.00
Rh(OH)4	79.00	0.00	79.00				0.00	79.00
Ru	0.00	0.00	0.00				0.00	0.00
Ru(NO3)4	0.00	0.00	0.00				0.00	0.00
RuO2	0.00	0.00	0.00				0.00	0.00
spare	0.00	0.00	0.00				0.00	0.00
Ru(OH)4	458.00	0.00	458.00				0.00	458.00
SO3	0.00	0.00	0.00				0.00	0.00
Sb(NO3)3	0.00	0.00	0.00				0.00	0.00
Sb2O3	0.00	0.00	0.00				0.00	0.00
Sb(OH)3	0.70	0.00	0.70				0.00	0.70
SeO2	0.00	0.00	0.00				0.00	0.00
Si(NO3)4	250.00	209.00	25.00				24.50	0.70
SiO2	1,263.00	0.00	1,263.00		33,611.78	454.55	0.00	1,263.00
Sm(NO3)3	0.00	0.00	0.00				0.00	0.00
Sm2O3	0.00	0.00	0.00				0.00	0.00
Sn(OH)3	143.00	0.00	143.00				0.00	143.00
Sn(NO3)4	245.00	218.37	26.63				25.88	0.75
SnO2	0.00	0.00	0.00				0.00	0.00
Sn(OH)4	2.50	0.00	2.50				0.00	2.50
SrCO3	0.00	0.00	0.00				0.00	0.00
Sr(NO3)2	4.30	3.87	0.43				0.42	0.01
SrO	0.00	0.00	0.00		22.37		0.00	0.00
Sr(OH)2	0.00	0.00	0.00				0.00	0.00
SrSO4	217.00	0.00	217.00				0.00	217.00
SUDAN(C12H22O11	0.00	0.00	0.00				0.00	0.00
Tb(NO3)3	0.00	0.00	0.00				0.00	0.00
Tb2O3	0.00	0.00	0.00				0.00	0.00
Tb(OH)3	0.00	0.00	0.00				0.00	0.00
Tc2O7	0.00	0.00	0.00				0.00	0.00
TeO2	0.00	0.00	0.00				0.00	0.00
Th(NO3)4	0.00	0.00	0.00				0.00	0.00
ThO2	0.00	0.00	0.00				0.00	0.00
Th(OH)4	0.00	0.00	0.00				0.00	0.00
TiO2	0.00	0.00	0.00		16.78		0.00	0.00
UO2(NO3)2	0.00	0.00	0.00				0.00	0.00
UO2	0.00	0.00	0.00				0.00	0.00
UO3	0.00	0.00	0.00				0.00	0.00
UO2(OH)2	3,087.00	0.00	3,087.00				0.00	3,087.00
Y2(CO3)3	0.00	0.00	0.00				0.00	0.00
Y(NO3)3	0.00	0.00	0.00				0.00	0.00
Y2O3	0.00	0.00	0.00				0.00	0.00
Y(OH)3	103.00	0.00	103.00				0.00	103.00
spare	0.00	0.00	0.00				0.00	0.00
Zn(NO3)2	0.00	0.00	0.00				0.00	0.00
ZnO	0.00	0.00	0.00				0.00	0.00
Zn(OH)2	128.00	0.00	128.00				0.00	128.00
Zr(NO3)4	0.00	0.00	0.00				0.00	0.00
ZrO2	0.00	0.00	0.00		22.37		0.00	0.00
Zr(OH)4	964.00	0.00	964.00				0.00	964.00
TOTAL SOLIDS	1,226,209	1,006,308	219,901	0	49,588	455	119,275	100,626
CO	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
CO2	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
H2	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
N2	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
NO	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
NO2	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
O2	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
SO3	0.00E+00	0.00E+00	0.00E+00				0.00E+00	0.00E+00
TOTAL GASES EXCL H2O & TRACES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	8	9	10	11	12	13	14	15	16	17
	802 CHEMICAL ADD	802 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE	SLUDGE WASH WATER	IX ZEOLITE SLURRY 801	SAND FILTER SLURRY 801	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE

18 801 WASTE BLEND	19 801 HEEL FLUSH	20 804 CHEMICAL ADD	21 804 WATER ADD	22 ADJUSTED THOREX WASTE	23 CAUSTIC ADDITION TO 802	24 CAUSTIC WATER FLUSH TO 802	25 804 TANK FLUSH	26 NEUTRALIZED THOREX WASTE IN 802	27 VITRIFICATION SYSTEM FEED 802
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
848,743			H2O	34,148	21,084		6,400	62,574	1,319,617
0.00			Ag	0.00				0.00	0.00E+00
0.00			AgNO3	0.08				0.00	0.00E+00
0.00			Ag2O	0.00				0.00	0.00E+00
0.00			AgOH	0.00				0.06	7.59E-01
0.00			AlF3	0.00				0.00	5.36E+02
0.00			Al(NO3)3	4,176.00				0.00	0.00E+00
8,668.60			Al2O3	0.00				0.00	8.47E+03
0.00			Al(OH)3	0.00				1,528.87	7.38E+03
0.00			Am(OH)3	0.00				0.00	0.00E+00
0.00			Am(NO3)3	0.00				0.00	0.00E+00
0.00			Am2O3	0.00				0.00	2.70E+01
0.00			B2O3	27.00				0.00	0.00E+00
0.00			Ba(NO3)2	0.00				0.00	0.00E+00
50.33			BaO	0.00				0.00	5.03E+01
0.00			BaSO4	0.00				24.11	3.27E+02
0.00			C	0.00				0.00	0.00E+00
0.00			(CH2)10	0.00				0.00	0.00E+00
0.00			CaCO3	0.00				0.00	3.21E+03
0.00			CaC2O4	0.00				0.00	0.00E+00
0.00			CaF2	0.00				0.00	0.00E+00
0.00			Ca(NO3)2	30.00				0.00	0.00E+00
615.19			CaO	0.00				0.00	6.15E+02
0.00			Ca(OH)2	0.00				13.55	1.35E+01
0.00			Ca3(PO4)2	0.00				0.00	0.00E+00
0.00			CaSO4	0.00				0.00	0.00E+00
0.00			Cd(NO3)2	0.00				0.00	0.00E+00
0.00			CdO	0.00				0.00	0.00E+00
0.00			Cd(OH)2	43.00				0.19	1.89E+00
0.00			Ce(NO3)3	0.00				0.00	0.00E+00
0.00			CeO2	0.00				0.00	0.00E+00
0.00			Ce(OH)3	0.00				0.00	3.54E+02
0.00			Cm(NO3)3	0.00				0.00	0.00E+00
0.00			Cm2O3	0.00				0.00	4.00E-01
0.00			Cm(OH)3	0.00				0.00	0.00E+00
0.00			Co	3.00				0.00	0.00E+00
0.00			Co(NO3)2	0.00				0.00	0.00E+00
0.00			CoO	0.00				0.00	0.00E+00
0.00			Co(OH)2	1,918.00				1.52	1.52E+00
0.00			Cr(NO3)3	0.00				0.00	0.00E+00
0.00			Cr2O3	0.00				0.00	0.00E+00
0.00			CrO3	0.00				829.70	8.95E+02
0.00			Cr(OH)3	28.00				28.00	2.96E+01
0.00			CsNO3	0.00				0.00	0.00E+00
0.00			CsCl (SV)	0.00				0.00	3.84E+02
394.47			Cs2O	0.00				0.00	0.00E+00
0.00			Eu	0.00				0.00	0.00E+00
0.00			Cu	0.80				0.00	1.84E-02
0.00			Cu(NO3)2	0.00				0.00	0.00E+00
0.00			CuO	0.00				0.42	3.76E+02
0.00			Cu(OH)2	0.00				0.00	0.00E+00
0.00			CuSO4	0.00				0.00	0.00E+00
0.00			Dy(NO3)3	0.00				0.00	0.00E+00
0.00			Dy2O3	0.00				0.00	1.22E-03
0.00			Dy(OH)3	1.00				0.00	0.00E+00
0.00			Eu(NO3)3	0.00				0.00	0.00E+00
0.00			Eu2O3	0.00				0.60	8.10E+00
0.00			Eu(OH)3	0.00				0.00	0.00E+00
0.00			Fe	8,462.00				0.00	1.32E-01
0.00			Fe(NO3)3	0.00				0.00	0.00E+00
1,957.43			FeO	0.00				3,736.26	6.98E+04
0.00			Fe(OH)3	0.00				0.00	1.96E+03
0.00			Fe2O3	0.00				0.00	6.35E+03
0.00			FePO4	0.40				0.00	0.00E+00
0.00			Gd(NO3)3	0.00				0.00	0.00E+00
0.00			Gd2O3	0.00				0.24	1.94E+00
0.00			Gd(OH)3	0.02				0.00	0.00E+00
0.00			Ge(NO3)4	0.00				0.00	0.00E+00
0.00			GeO2	0.00				0.01	8.77E-03
0.00			Ge(OH)4	480.00				0.00	0.00E+00
0.00			H3BO3	0.00				0.00	2.75E-01
0.00			H2CO3	0.00				0.00	0.00E+00
0.00			H2C2O4	0.00				0.00	0.00E+00
0.00			HCl	0.80				0.00	0.00E+00
0.00			HF	2,805.00				0.00	0.00E+00
0.00			HNO3	0.00				0.00	0.00E+00
0.00			H2SO4	0.00				0.00	0.00E+00
0.00			Hg	0.00				0.00	0.00E+00
0.00			Hg2Cl2	0.00				0.00	0.00E+00
0.00			Hg2I2	0.00				0.00	0.00E+00
0.00			Hg(NO3)2	0.00				0.00	0.00E+00
0.00			HgO	0.00				0.00	2.30E+00
0.00			Hg(OH)2	0.04				0.00	0.00E+00
0.00			In(NO3)3	0.00				0.00	0.00E+00
0.00			In2O3	0.00				0.02	3.22E-03
0.00			In(OH)3	0.00				0.00	1.56E+00
0.00			K2CrO4	98.00				98.00	9.80E+00
0.00			KMnO4	191.00				191.00	3.02E+03
0.00			KNO3	0.00				0.00	0.00E+00
0.00			K2O	0.00				0.00	0.00E+00
0.00			KOH	22.00				0.00	0.00E+00
0.00			La(NO3)3	0.00				0.00	0.00E+00
0.00			La2O3	0.00				12.86	1.98E+02
0.00			La(OH)3	0.00				0.00	0.00E+00
0.00			LiOH	0.00				0.00	4.28E-01
0.00			LiNO3	0.00				0.00	0.00E+00
0.00			Li2O	0.00				0.00	8.26E+00
0.00			MgCO3	57.00				0.00	6.12E-01
391.49			Mg(NO3)2	0.00				0.00	3.91E+00
0.00			MgO	0.00				22.40	2.24E+02
0.00			Mg(OH)2	0.00				0.00	0.00E+00
0.00			Mn(NO3)2	0.00				0.00	0.00E+00
0.00			MnO	0.00				0.00	4.58E+00
0.00			MnO2	0.00				0.00	0.00E+00
16.78			Mn(OH)2	0.00				0.00	1.68E+00
0.00			NaNO3	0.00				991.98	9.94E+03
0.00			Na3BO3	0.00				0.00	0.00E+00
0.00			Li3PO4	0.00				0.00	0.00E+00
0.00			Na2B4O7	0.00				0.00	0.00E+00
0.00			Na2C2O4	0.00				0.00	7.73E+00
0.00			Na2CO3	0.00				50.00	6.43E+00
0.00			NaCl	50.00				0.00	0.00E+00
0.00			NaClO4	0.00				0.00	0.00E+00
0.00			Na2CrO4	0.00				1.00	2.54E+00
0.00			NaF	1.00				0.00	0.00E+00
0.00			NaH2PO4	0.00				0.00	1.30E+00
0.00			NaHCO3	0.00				0.00	0.00E+00
0.00			NaI	0.00				0.00	0.00E+00
0.00			H3PO4	0.00				54.00	5.61E+00
0.00			Na2MoO4	54.00				0.00	9.53E+00
0.00			NaNO2	0.00				43,044.76	4.49E+03
0.00			NaNO3	227.00				0.00	3.83E+00
3,830.29			Na2O	0.00	21,084.02			0.00	5.37E+00
0.00			NaOH	0.00				12.00	2.36E+00
0.00			Na3PO4	12.00				0.00	0.00E+00
0.00			Na2P2O2(OH)4	0.00				0.00	0.00E+00
0.00			Na2PbO4	0.00				0.00	0.00E+00
0.00			Na2RuO4	0.00				165.32	3.99E+00
0.00			Na2SO4	180.00				1.00	1.05E+00
0.00			Na2SeO4	1.00				126.00	1.26E+00
0.00			Na2SiO3	126.00				11.00	1.15E+00
0.00			NaTcO4	11.00				5.00	5.25E+00
0.00			Na2TeO4	5.00				0.00	7.07E-01
0.00			Na2U2O7	0.00				0.00	0.00E+00
0.00			Nd(NO3)3	73.00				0.00	0.00E+00
0.00			Nd2O3	0.00				51.77	6.75E+01
0.00			Ni(OH)2	0.00					

0.00				H2O	0.00			401.28	1.49E+03
0.00				Al(OH)3	0.00			0.00	0.00E+00
0.00				Al(NO3)3	0.00			0.00	3.50E+01
0.00				Al2O3	0.00			0.54	5.39E-01
0.00				B(OH)3	0.00			0.00	0.00E+00
0.00				B2O3	0.00			0.00	0.00E+00
0.00				Ba(NO3)2	0.00			0.00	0.00E+00
0.00				BaO2	0.00			0.00	0.00E+00
0.00				Ba(OH)2	0.00			0.75	7.80E-01
0.00				Be	0.00			0.00	0.00E+00
0.00				Be(NO3)2	0.00			0.00	0.00E+00
0.00				BeO	0.00			0.00	0.00E+00
0.00				Be(OH)2	0.00			4.87	5.89E+01
0.00				Bi(NO3)3	0.01			0.00	0.00E+00
0.00				Bi2O3	0.00			0.00	0.00E+00
0.00				Bi(OH)3	0.00			0.01	1.51E+00
0.00				Br(NO3)3	21.00			0.00	0.00E+00
0.00				Br2O3	0.00			0.00	0.00E+00
0.00				Br(OH)3	0.00			12.53	1.82E+02
0.00				Ru(NO3)4	0.70			0.00	0.00E+00
0.00				RuO2	0.00			0.39	5.74E+01
0.00				RbNO3	6.00			6.00	6.36E+00
0.00				Rb2O	0.00			0.00	0.00E+00
0.00				Rh	0.00			0.00	0.00E+00
0.00				Rh(NO3)4	11.00			0.00	0.00E+00
0.00				RhO2	0.00			0.00	0.00E+00
0.00				Rh(OH)4	0.00			5.36	8.44E+01
0.00				Ru	0.00			0.00	0.00E+00
0.00				Ru(NO3)4	42.00			0.00	0.00E+00
0.00				RuO2	0.00			0.00	0.00E+00
0.00				spare	0.00			0.00	0.00E+00
0.00				Ru(OH)4	0.00			20.34	4.78E+02
0.00				SO3	0.00			0.00	0.00E+00
0.00				Sb(NO3)3	0.10			0.00	0.00E+00
0.00				Sb2O3	0.00			0.00	0.00E+00
0.00				Sb(OH)3	0.00			0.06	7.66E-01
0.00				SeO2	0.00			0.00	0.00E+00
0.00				Si(NO3)4	0.00			0.00	7.04E-01
39,066.33				SiO2	0.00			0.00	4.03E+04
0.00				Sn(NO3)2	14.00			0.00	0.00E+00
0.00				Sn2O3	0.00			0.00	0.00E+00
0.00				Sn(OH)3	0.00			0.38	1.51E+02
0.00				Sn(NO3)4	0.70			0.00	7.50E-01
0.00				SnO2	0.00			0.00	0.00E+00
0.00				Sn(OH)4	0.00			0.34	2.86E+00
0.00				SrCO3	0.00			0.00	0.00E+00
0.00				Sr(NO3)2	16.00			0.00	1.22E-02
22.37				SrO	0.00			0.00	2.24E+01
0.00				Sr(OH)2	0.00			0.00	0.00E+00
0.00				SrSO4	0.00			13.88	2.31E+02
0.00				SUGAR:C12H22O11	0.00			0.00	0.00E+00
0.00				Tb(NO3)3	0.00			0.00	0.00E+00
0.00				Tb2O3	0.00			0.00	0.00E+00
0.00				Tb(OH)3	0.00			0.00	2.43E-03
0.00				TeO2?	0.00			0.00	0.00E+00
0.00				TeO2	0.00			0.00	0.00E+00
0.00				Th(NO3)4	31,054.00			0.00	0.00E+00
0.00				ThO2	0.00			0.00	0.00E+00
0.00				Th(OH)4	0.00			19,408.91	1.94E+04
16.78				TiO2	0.00			0.00	1.68E+01
0.00				UO2(NO3)2	0.00			0.00	0.00E+00
0.00				UO2	0.00			0.00	0.00E+00
0.00				UO3	0.00			0.00	0.00E+00
0.00				UO2(OH)2	0.00			4.63	5.09E+02
0.00				Y2(CO3)3	0.00			0.00	0.00E+00
0.00				Y(NO3)3	14.00			0.00	0.00E+00
0.00				Y2O3	0.00			0.00	0.00E+00
0.00				Y(OH)3	0.00			7.12	1.10E+02
0.00				spare	0.00			0.00	0.00E+00
0.00				Zn(NO3)2	10.00			0.00	0.00E+00
0.00				ZnO	0.00			0.00	0.00E+00
0.00				Zn(OH)2	0.00			5.24	1.33E+02
0.00				Zr(NO3)4	12.00			0.00	0.00E+00
22.37				ZrO2	56.00			56.00	5.74E+01
0.00				Zr(OH)4	0.00			5.63	5.70E+02
55,042				TOTAL SOLIDS	51,125	21,084	0	70,943	226,612
0.00E+00	CO				0.00E+00			0.00E+00	0.00E+00
0.00E+00	CO2				0.00E+00			0.00E+00	0.00E+00
0.00E+00	H2				0.00E+00			0.00E+00	0.00E+00
0.00E+00	N2				0.00E+00			0.00E+00	0.00E+00
0.00E+00	NO				0.00E+00			0.00E+00	0.00E+00
0.00E+00	NO2				0.00E+00			0.00E+00	0.00E+00
0.00E+00	O2				0.00E+00			0.00E+00	0.00E+00
0.00E+00	SO3				0.00E+00			0.00E+00	0.00E+00
0.00E+00	TOTAL GASES EXCL H2O & TRACES				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

18	19	20	21	22	23	24	25	26	27
#01 WASTE BLEND	#01 HEEL FLUSH	#04 CHEMICAL ADD	#04 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO #02 (SO2)	CAUSTIC WATER FLUSH TO #02	#04 TANK FLUSH	NEUTRALIZED THOREX WASTE IN #02	VITRIFICATION SYSTEM FEED #02

AE 28 902 SLURRY TRANSFER FLUSH	AF 29 SBS RECYCLE	AG 30 CANISTER DECON SOLN RECYCLE	AH 31 HEME FLUSH/COND RECYCLE	AI 32 LWTS CONCENTRATE RECYCLE	AJ 33 WASTE HEADER RECYCLE	AK 34 NONROUTINE WASTE RECYCLE	AL 35 DILUTE CMPT WASTE FEED	AM 36 CONCENTRATED CMPT WASTE	AN 37 CMPT WASTE OVERHEADS
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
13,029	566,956		5,292	H2O	0		1,904,894	240,163	1,664,731
	0.00E+00		0.00E+00	Ag			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	AgNO3			0.00E+00	0.00E+00	0.00E+00
	2.29E-03		7.59E-05	Ag2O			2.35E-03	2.35E-03	3.81E-06
	0.00E+00		0.00E+00	AgOH			7.59E-01	7.59E-01	1.13E-03
	0.00E+00		0.00E+00	AlF3			5.36E+02	5.36E+02	8.01E-01
	0.00E+00		0.00E+00	Al(NO3)3			0.00E+00	0.00E+00	0.00E+00
	1.00E+02		3.35E+00	Al2O3			8.77E+03	8.77E+03	1.31E+01
	0.00E+00		0.00E+00	Al(OH)3			7.38E+03	7.38E+03	1.10E+01
	0.00E+00		0.00E+00	Am(OH)3			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Am(NO3)3			0.00E+00	0.00E+00	0.00E+00
	8.73E-02		2.91E-03	Am2O3			2.71E+01	2.71E+01	4.05E-02
	9.77E+02		4.72E-01	B2O3			9.78E+02	9.78E+02	1.46E+00
	0.00E+00		0.00E+00	Ba(NO3)2			0.00E+00	0.00E+00	0.00E+00
	1.83E-01		5.42E-03	BaO			5.05E+01	5.05E+01	7.55E-02
	1.06E+00		3.53E-02	BaSO4			3.28E+02	3.28E+02	4.90E-01
	0.00E+00		0.00E+00	C			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	(CH2)10			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	CaCO3			3.21E+03	3.21E+03	4.79E+00
	0.00E+00		0.00E+00	CaC2O4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	CaF2			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Ca(NO3)2			0.00E+00	0.00E+00	0.00E+00
	7.67E+00		2.56E-01	CaO			6.23E+02	6.23E+02	9.31E-01
	0.00E+00		0.00E+00	Ca(OH)2			1.35E+01	1.35E+01	2.02E-02
	0.00E+00		0.00E+00	Ca3(PO4)2			0.00E+00	0.00E+00	0.00E+00
	0.06E+00		0.00E+00	CaSO4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Cd(NO3)2			0.00E+00	0.00E+00	0.00E+00
	9.48E-02		1.83E-02	CeO			1.13E-01	1.13E-01	1.69E-04
	0.00E+00		0.00E+00	Ce(OH)2			1.89E+00	1.89E+00	2.82E-03
	0.00E+00	0.00E+00	0.00E+00	Ce(NO3)3			0.00E+00	0.00E+00	0.00E+00
	9.83E-01		3.28E-02	Ce2O3			1.02E+00	1.02E+00	1.52E-03
	0.00E+00		0.00E+00	Ce(OH)3			3.54E+02	3.54E+02	5.29E-01
	0.00E+00		0.00E+00	Cm(NO3)3			0.00E+00	0.00E+00	0.00E+00
	1.29E-03		4.31E-05	Cm2O3			4.01E-01	4.01E-01	6.00E-04
	0.00E+00		0.00E+00	Cm(OH)3			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Co			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Co(NO3)2			0.00E+00	0.00E+00	0.00E+00
	3.97E-03		1.32E-04	CoO			4.10E-03	4.10E-03	6.13E-06
	0.00E+00		0.00E+00	Co(OH)2			1.52E+00	1.52E+00	2.28E-03
	0.00E+00		0.00E+00	Cr(NO3)3			0.00E+00	0.00E+00	0.00E+00
	2.15E+00		7.18E-02	Cr2O3			2.23E+00	2.23E+00	3.33E-03
	0.00E+00		0.00E+00	CrO3			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Cr(OH)3			8.95E+02	8.95E+02	1.34E+00
	0.00E+00		0.00E+00	CsNO3			2.96E+01	2.96E+01	4.43E-02
	0.00E+00		0.00E+00	CsCl (SV)			0.00E+00	0.00E+00	0.00E+00
	6.90E+00		1.33E+00	Cs2O			3.93E+02	3.93E+02	5.87E-01
	0.00E+00		0.00E+00	spare			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Cu			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Cu(NO3)2			1.84E-02	1.84E-02	2.74E-05
	9.92E-01		3.31E-02	CuO			1.03E+00	1.03E+00	1.53E-03
	0.00E+00		0.00E+00	Cu(OH)2			3.76E+02	3.76E+02	5.62E-01
	0.00E+00		0.00E+00	CuSO4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Dy(NO3)3			0.00E+00	0.00E+00	0.00E+00
	3.46E-06		1.15E-07	Dy2O3			3.57E-06	3.57E-06	5.34E-09
	0.00E+00		0.00E+00	Dy(OH)3			1.23E-03	1.23E-03	1.83E-06
	0.00E+00		0.00E+00	Eu(NO3)3			0.00E+00	0.00E+00	0.00E+00
	2.46E-02		8.22E-04	Eu2O3			2.55E-02	2.55E-02	3.81E-05
	0.00E+00		0.00E+00	Eu(OH)3			8.10E+00	8.10E+00	1.21E-02
	0.00E+00		0.00E+00	Fe			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Fe(NO3)3			1.32E-01	1.32E-01	1.97E-04
	0.00E+00		0.00E+00	FeO			0.00E+00	0.00E+00	0.00E+00
	0.00E+00	0.00E+00	0.00E+00	Fe(OH)3			6.98E+04	6.98E+04	1.04E+02
	1.86E+02		6.20E+00	Fe2O3			2.15E+03	2.15E+03	3.21E+00
	0.00E+00		0.00E+00	FePO4			6.35E+03	6.35E+03	9.49E+00
	0.00E+00		0.00E+00	Ga(NO3)3			0.00E+00	0.00E+00	0.00E+00
	5.47E-03		1.82E-04	Ga2O3			5.65E-03	5.65E-03	8.44E-06
	0.00E+00		0.00E+00	Gd(OH)3			1.94E+00	1.94E+00	2.90E-03
	0.00E+00		0.00E+00	Ge(NO3)4			0.00E+00	0.00E+00	0.00E+00
	2.11E-05		7.03E-07	GeO2			2.18E-05	2.18E-05	3.26E-08
	0.00E+00		0.00E+00	Ge(OH)4			8.77E-03	8.77E-03	1.31E-05
	0.00E+00		0.00E+00	H3BO3			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	H2CO3			2.75E-02	2.75E-02	4.12E-05
	0.00E+00		0.00E+00	H2C2O4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	HCl			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	HF			0.00E+00	0.00E+00	0.00E+00
	3.57E+02		3.35E+00	HNO3			5.61E+02	0.00E+00	5.39E-01
	0.00E+00		0.00E+00	H2SO4			0.00E+00	0.00E+00	0.00E+00
	5.45E+00		1.05E+00	Hg			6.51E+00	6.51E+00	9.72E-03
	0.00E+00		0.00E+00	Hg2Cl2			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Hg2I2			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Hg(NO3)2			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	HgO			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Hg(OH)2			2.30E+01	2.30E+01	3.44E-02
	0.00E+00		0.00E+00	In(NO3)3			0.00E+00	0.00E+00	0.00E+00
	6.72E-04		2.51E-05	In2O3			9.01E-04	9.01E-04	1.35E-06
	0.00E+00		0.00E+00	In(OH)3			3.22E-01	3.22E-01	4.81E-04
	0.00E+00		0.00E+00	K2CrO4			1.56E+01	1.56E+01	2.34E-02
	0.00E+00		0.00E+00	KMnO4			9.80E+01	9.80E+01	1.46E-01
	0.00E+00		0.00E+00	KNO3			3.02E+02	3.02E+02	4.51E-01
	5.73E+01		1.91E+00	K2O			5.92E+01	5.92E+01	8.84E-02
	0.00E+00		0.00E+00	KOH			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	La(NO3)3			0.00E+00	0.00E+00	0.00E+00
	5.49E-01		1.83E-02	La2O3			5.67E-01	5.67E-01	8.47E-04
	0.00E+00		0.00E+00	La(OH)3			1.98E+02	1.98E+02	2.96E-01
	0.00E+00		0.00E+00	LiOH			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	LiNO3			4.28E-02	4.28E-02	6.40E-05
	4.84E+01		1.61E+00	Li2O			5.00E+01	5.00E+01	7.47E-02
	0.00E+00		0.00E+00	MgCO3			8.25E+02	8.25E+02	1.23E+00
	0.00E+00		0.00E+00	Mg(NO3)2			4.12E-03	4.12E-03	6.15E-06
	1.38E+01		4.60E-01	MgO			4.06E+02	4.06E+02	6.06E-01
	0.00E+00		0.00E+00	Mg(OH)2			2.24E+01	2.24E+01	3.35E-02
	0.00E+00		0.00E+00	Mn(NO3)2			0.00E+00	0.00E+00	0.00E+00
	1.53E+01		5.12E-01	MnO			1.59E+01	1.59E+01	2.37E-02
	0.00E+00		0.00E+00	MnO2			4.58E+03	4.58E+03	6.85E+00
	0.00E+00		0.00E+00	Mn(OH)2			0.00E+00	0.00E+00	0.00E+00
	5.37E-01		2.73E-02	MoO3			1.73E+01	1.73E+01	2.59E-02
	0.00E+00		0.00E+00	NaNO3			9.94E+02	9.94E+02	1.49E+00
	0.00E+00		0.00E+00	Li3PO4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2B4O7			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2C2O4	0.00E+00		0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2CO3			7.73E+01	7.73E+01	1.15E-01
	1.78E+01		5.45E+00	NaCl			8.56E+01	8.56E+01	1.28E-01
	0.00E+00		0.00E+00	spare			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2CrO4			0.00E+00	0.00E+00	0.00E+00
	3.24E+02		4.33E+01	NaF			2.70E+02	2.70E+02	4.05E-01
	0.00E+00		0.00E+00	NaH2PO4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	NaHCO3			1.30E+02	1.30E+02	1.95E-01
	0.00E+00		0.00E+00	NaI			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	NaOH			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2MoO4			5.61E+01	5.61E+01	8.39E-02
	0.00E+00	0.00E+00	0.00E+00	NaNO2			9.53E+02	9.53E+02	1.42E+00
	0.00E+00	0.00E+00	0.00E+00	NaNO3	0.00E+00		4.49E+04	4.49E+04	6.71E+01
	5.89E+01		5.84E+00	Na2O			3.90E+03	3.90E+03	5.82E+00
	0.00E+00		0.00E+00	NaOH			5.37E+01	5.37E+01	8.02E-02
	0.00E+00		0.00E+00	Na3PO4			2.36E+01	2.36E+01	3.53E-02
	0.00E+00		0.00E+00	Na2PuO2(OH)4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2RhO4			0.00E+00	0.00E+00	0.00E+00
	0.00E+00		0.00E+00	Na2RuO4			0.00E+00	0.00E+00	0.00E+00
	2.68E+02		4.30E-02	Na2SO4			6.67E+02	6.67E+02	9.96E-01
	0.00E+00		0.00E+00	Na2SeO4			1.05E+00	1.05E+00	1.56E-03
	0.00E+00		0.00E+00	Na2SiO3			1.26E+02	1.26E+02	1.88E-01
	0.00E+00		0.00E+00	NaTcO4			1.16E+01	1.16E+01	1.72E-02
	0.00E+00		0.00E+00	Na2TeO4			5.25E+00	5.25E+00	7.85E-03
	0.00E+00		0.00E+00	Na2U2O7			7.07E-01	7.07E-01	1.06E-03
	0.00E+00		0.00E+00	Nd(NO3)3			0.00E+00	0.00E+00	0.00E+00
	1.56E+00		5.21E-02	Nd2O3			1.61E+00	1.61E+00	2.41E-03
	0.00E+00		0.00E+00	Ni(NO3)2			6.73E+02	6.73E+02	1.01E+00

3.88E+00		1.29E-01				4.01E+00	4.01E+00		
0.00E+00		0.00E+00				1.49E+03	1.49E+03	2.23E+00	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
1.15E-01		3.83E-03				3.51E+01	3.51E+01	5.25E-02	
0.00E+00		0.00E+00				5.59E-01	5.59E-01	8.35E-04	
3.62E+01		1.21E+00				3.74E+01	3.74E+01	5.59E-02	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
2.13E-03		7.11E-05				2.20E-03	2.20E-03	3.29E-06	
0.00E+00		0.00E+00				7.50E-01	7.50E-01	1.12E-03	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
1.10E-01		3.65E-03				1.13E-01	1.13E-01	1.69E-04	
0.00E+00		0.00E+00				3.89E+01	3.89E+01	5.81E-02	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
4.20E-03		1.40E-04				4.34E-03	4.34E-03	6.49E-06	
0.00E+00		0.00E+00				1.51E+00	1.51E+00	2.25E-03	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
5.05E-01		1.69E-02				5.25E-01	5.25E-01	7.82E-04	
0.00E+00		0.00E+00				1.82E+02	1.82E+02	2.72E-01	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
1.21E-01		4.03E-03				3.75E+01	3.75E+01	5.61E-02	
0.00E+00		0.00E+00				6.36E+00	6.36E+00	9.51E-03	
1.30E-02		4.35E-04				1.35E-02	1.35E-02	2.01E-05	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
2.15E-01		7.18E-03				2.22E-01	2.22E-01	3.32E-04	
0.00E+00		0.00E+00				8.44E+01	8.44E+01	1.26E-01	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
3.97E+01		2.02E+00				4.18E+01	4.18E+01	6.24E-02	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00				4.78E+02	4.78E+02	7.15E-01	
MEGLIGIBLE		MEGLIGIBLE				0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
2.06E-03		6.87E-05				2.13E-03	2.13E-03	3.18E-06	
0.00E+00		0.00E+00				7.56E-01	7.56E-01	1.13E-03	
2.69E-02		5.21E-03				3.21E-02	3.21E-02	4.80E-05	
0.00E+00		0.00E+00				7.04E-01	7.04E-01	1.05E-03	
6.65E+02		2.22E+01				4.10E+04	4.10E+04	6.13E+01	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
4.24E-01		1.41E-02				4.38E-01	4.38E-01	6.54E-04	
0.00E+00		0.00E+00				1.51E+02	1.51E+02	2.26E-01	
0.00E+00		0.00E+00				7.50E-01	7.50E-01	1.12E-03	
8.45E-03		2.82E-04				8.73E-03	8.73E-03	1.30E-05	
0.00E+00		0.00E+00				2.86E+00	2.86E+00	4.27E-03	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00				1.22E-02	1.22E-02	1.83E-05	
7.23E-02		2.41E-03				2.24E+01	2.24E+01	3.35E-02	
0.00E+00		0.00E+00				0.00E+00	0.00E+00	0.00E+00	
7.44E-01		2.49E-02				2.32E+02	2.32E+02	3.46E-01	
0.00E+00		0.00E+00	SUGAR (C12H22O11)			0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00	Tb(NO3)3			0.00E+00	0.00E+00	0.00E+00	
6.86E-06		2.29E-07	Tb2O3			7.09E-06	7.09E-06	1.06E-08	
0.00E+00		0.00E+00	Tb(OH)3			2.43E-03	2.43E-03	3.64E-06	
9.89E-01		1.72E-01	TeO2			1.06E+00	1.06E+00	1.59E-03	
1.55E-01		2.99E-02	Te02			1.85E-01	1.85E-01	2.76E-04	
0.00E+00		0.00E+00	Th(NO3)4			0.00E+00	6.87E+02	0.00E+00	
5.52E+01		1.84E+00	ThO2			5.71E+01	5.71E+01	8.55E-02	
0.00E+00		0.00E+00	Th(OH)4			1.94E+04	1.90E+04	2.90E+01	
1.40E+01		4.65E-01	TiO2			3.12E+01	3.12E+01	4.66E-02	
0.00E+00		0.00E+00	UO2(NO3)2			0.00E+00	0.00E+00	0.00E+00	
8.80E+00		2.96E-01	UO2			9.18E+00	9.18E+00	1.37E-02	
0.00E+00		0.00E+00	UO3			0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00	UO2(OH)2			3.09E+03	3.09E+03	4.62E+00	
0.00E+00		0.00E+00	Y2(CO3)3			0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00	Y(NO3)3			0.00E+00	0.00E+00	0.00E+00	
2.87E-01		9.58E-03	Y2O3			2.97E-01	2.97E-01	4.44E-04	
0.00E+00		0.00E+00	Y(OH)3			1.10E+02	1.10E+02	1.65E-01	
0.00E+00		0.00E+00	spare			0.00E+00	0.00E+00	0.00E+00	
0.00E+00		0.00E+00	Zn(NO3)2			0.00E+00	0.00E+00	0.00E+00	
3.53E-01		1.18E-02	ZnO			3.65E-01	3.65E-01	5.45E-04	
0.00E+00		0.00E+00	Zn(OH)2			1.33E+02	1.33E+02	1.99E-01	
0.00E+00		0.00E+00	Zr(NO3)4			0.00E+00	0.00E+00	0.00E+00	
2.61E+00		8.70E-02	ZrO2			6.01E+01	6.01E+01	8.98E-02	
0.00E+00		0.00E+00	Zr(OH)4			9.70E+02	9.70E+02	1.45E+00	
0	3,182	0	102	TOTAL SOLIDS	0		229,896	229,793	344
				CO			0.00E+00	0.00E+00	0.00E+00
				CO2			0.00E+00	0.00E+00	0.00E+00
				H2			0.00E+00	0.00E+00	0.00E+00
				N2			0.00E+00	0.00E+00	0.00E+00
				NO			0.00E+00	0.00E+00	0.00E+00
				NO2			0.00E+00	0.00E+00	0.00E+00
				O2			0.00E+00	0.00E+00	0.00E+00
				SO3			0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	TOTAL GASES EXCL H2O & TRACES	0.00E+00		0.00E+00	0.00E+00	0.00E+00
28 BD2 SLURRY TRANSFER FLUSH	29 SBS RECYCLE	30 CANISTER DECON SOLN RECYCLE	31 HEME FLUSH/COND RECYCLE	32 LWTS CONCENTRATE RECYCLE	33 WASTE HEADER RECYCLE	34 NONROUTINE WASTE RECYCLE	35 DILUTE CMPT WASTE FEED	36 CONCENTRATED CMPT WASTE	37 CMPT WASTE OVERHEADS

38 GLASS FORMERS	39 MAKE-UP MELTER FEED	40 MELTER FEED	41 AIR INLEAKAGE TO SFCM	GLASS PRODUCTION		42 FILLED GLASS CANISTER (1 CANISTER)	SFCM OFF GMS	FILM COOLER AIR	PRESSURE CONTROL AIR
kg	kg	kg	kg	kg		kg	kg	kg	kg
374,830	647,574	743,811	24,337	0	H2O	0	887,838	68.143	21,903
	0.00E+00	0.00E+00	Ag	0.00	Ag	0.0000	0.00E+00		
	0.00E+00	0.00E+00	AgNO3	0.00	AgNO3	0.0000	0.00E+00		
	2.35E-03	2.35E-03	Ag2O	0.00	Ag2O	0.0028	2.35E-03		
	7.59E-01	7.59E-01	AgOH	0.00	AgOH	0.0000	0.00E+00		
	5.36E+02	5.36E+02	AlF3	0.00	AlF3	0.0000	0.00E+00		
	6.54E+04	6.54E+04	Al(NO3)3	0.00	Al(NO3)3	0.0000	0.00E+00		
	8.77E+03	8.77E+03	Al2O3	31,061.02	Al2O3	122.0563	1.04E+02		
2.64E+04	9.80E+03	9.80E+03	Al(OH)3	0.00	Al(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Am(OH)3	0.00	Am(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Am(NO3)3	0.00	Am(NO3)3	0.0000	0.00E+00		
	2.71E+01	2.71E+01	Am2O3	27.00	Am2O3	0.1061	9.03E-02		
	9.78E+02	9.78E+02	B2O3	47,878.47	B2O3	188.2807	1.78E+02		
	0.00E+00	0.00E+00	Ba(NO3)2	0.00	Ba(NO3)2	0.0000	0.00E+00		
	5.05E+01	5.05E+01	BaO	50.33	BaO	0.1979	1.68E-01		
	3.28E+02	3.28E+02	BaSO4	327.11	BaSO4	1.2858	1.09E+00		
	0.00E+00	0.00E+00	C	0.00	C	0.0000	0.00E+00		
	0.00E+00	0.00E+00	(CH2)10	0.00	(CH2)10	0.0000	0.00E+00		
-8.73E+01	3.21E+03	3.21E+03	CaCO3	0.00	CaCO3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	CaC2O4	0.00	CaC2O4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	CaF2	0.00	CaF2	0.0000	0.00E+00		
	1.45E+02	1.45E+02	Ca(NO3)2	0.00	Ca(NO3)2	0.0000	0.00E+00		
	6.23E+02	6.23E+02	CaO	2,373.93	CaO	9.3315	7.94E+00		
	1.35E+01	1.35E+01	Ca(OH)2	0.00	Ca(OH)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Ca3(PO4)2	0.00	Ca3(PO4)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	CaSO4	0.00	CaSO4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Cd(NO3)2	0.00	Cd(NO3)2	0.0000	0.00E+00		
	1.13E-01	1.13E-01	CeO	1.02	CeO	0.0040	1.14E-01		
	1.89E+00	1.89E+00	Ce(OH)2	0.00	Ce(OH)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Ce(NO3)3	0.00	Ce(NO3)3	0.0000	0.00E+00		
	1.02E+00	1.02E+00	Ce2O3	303.96	Ce2O3	1.1948	1.02E+00		
	3.54E+02	3.54E+02	Ce(OH)3	0.00	Ce(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Cm(NO3)3	0.00	Cm(NO3)3	0.0000	0.00E+00		
	4.01E-01	4.01E-01	Cm2O3	0.40	Cm2O3	0.0016	1.34E-03		
	0.00E+00	0.00E+00	Cm(OH)3	0.00	Cm(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Co	0.00	Co	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Co(NO3)2	0.00	Co(NO3)2	0.0000	0.00E+00		
	4.10E-03	4.10E-03	CoO	1.23	CoO	0.0048	4.11E-03		
	1.52E+00	1.52E+00	Co(OH)2	0.00	Co(OH)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Cr(NO3)3	0.00	Cr(NO3)3	0.0000	0.00E+00		
	2.23E+00	2.23E+00	Cr2O3	666.25	Cr2O3	2.6189	2.23E+00		
	0.00E+00	0.00E+00	CrO3	0.00	CrO3	0.0000	0.00E+00		
	8.95E+02	8.95E+02	Cr(OH)3	0.00	Cr(OH)3	0.0000	0.00E+00		
	2.96E+01	2.96E+01	CsNO3	0.00	CsNO3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	CsCl (SV)	0.00	CsCl (SV)	0.0000	0.00E+00		
	3.93E+02	3.93E+02	Cs2O	405.85	Cs2O	1.5953	1.28E+00		
	0.00E+00	0.00E+00	spare	0.00	spare	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Cu	0.00	Cu	0.0000	0.00E+00		
	1.84E-02	1.84E-02	Cu(NO3)2	0.00	Cu(NO3)2	0.0000	0.00E+00		
	1.03E+00	1.03E+00	CuO	306.93	CuO	1.2065	1.03E+00		
	3.76E+02	3.76E+02	Cu(OH)2	0.00	Cu(OH)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	CuSO4	0.00	CuSO4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Dy(NO3)3	0.00	Dy(NO3)3	0.0000	0.00E+00		
	3.57E-06	3.57E-06	Dy2O3	0.00	Dy2O3	0.0000	3.58E-06		
	1.23E-03	1.23E-03	Dy(OH)3	0.00	Dy(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Eu(NO3)3	0.00	Eu(NO3)3	0.0000	0.00E+00		
	2.55E-02	2.55E-02	Eu2O3	7.62	Eu2O3	0.0300	2.55E-02		
	8.10E+00	8.10E+00	Eu(OH)3	0.00	Eu(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Fe	0.00	Fe	0.0000	0.00E+00		
	1.32E-01	1.32E-01	Fe(NO3)3	0.00	Fe(NO3)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	FeO	0.00	FeO	0.0000	0.00E+00		
	6.98E+04	6.98E+04	Fe(OH)3	0.00	Fe(OH)3	0.0000	0.00E+00		
9.90E+01	2.24E+03	2.24E+03	Fe2O3	57,544.10	Fe2O3	226.1960	1.92E+02		
	6.35E+03	6.35E+03	FePO4	0.00	FePO4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Gd(NO3)3	0.00	Gd(NO3)3	0.0000	0.00E+00		
	5.65E-03	5.65E-03	Gd2O3	1.69	Gd2O3	0.0066	5.65E-03		
	1.94E+00	1.94E+00	Gd(OH)3	0.00	Gd(OH)3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Ge(NO3)4	0.00	Ge(NO3)4	0.0000	0.00E+00		
	2.18E-05	2.18E-05	GeO2	0.01	GeO2	0.0000	2.18E-05		
	8.77E-03	8.77E-03	Ge(OH)4	0.00	Ge(OH)4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	H3BO3	0.00	H3BO3	0.0000	0.00E+00		
	NEGLIGIBLE	NEGLIGIBLE	H2CO3	0.00	H2CO3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	H2C2O4	0.00	H2C2O4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	HCl	0.00	HCl	0.0000	0.00E+00		
	0.00E+00	0.00E+00	HF	0.00	HF	0.0000	0.00E+00		
1.50E+05	NEGLIGIBLE	NEGLIGIBLE	HNO3	0.00	HNO3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	H2SO4	0.00	H2SO4	0.0000	0.00E+00		
	6.51E+00	6.51E+00	Hg	19.63	Hg	0.0772	6.54E+00		
	0.00E+00	0.00E+00	Hg2Cl2	0.00	Hg2Cl2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Hg2I2	0.00	Hg2I2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Hg(NO3)2	0.00	Hg(NO3)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	HgO	0.00	HgO	0.0000	0.00E+00		
	2.30E+01	2.30E+01	Hg(OH)2	0.00	Hg(OH)2	0.0000	0.00E+00		
	0.00E+00	[illegible]E+00	In(NO3)3	0.00	In(NO3)3	0.0000	0.00E+00		
	9.01E-04	[illegible]E-04	In2O3	0.27	In2O3	0.0011	9.02E-04		
	3.22E+01	3.22E+01	In(OH)3	0.00	In(OH)3	0.0000	0.00E+00		
	1.56E+01	1.56E+01	K2CrO4	0.00	K2CrO4	0.0000	0.00E+00		
	9.80E+01	9.80E+01	KMnO4	0.00	KMnO4	0.0000	0.00E+00		
	3.79E+04	3.79E+04	KNO3	0.00	KNO3	0.0000	0.00E+00		
	5.92E+01	5.92E+01	K2O	17,709.53	K2O	69.6131	5.92E+01		
2.09E+04	0.00E+00	0.00E+00	KOH	0.00	KOH	0.0000	0.00E+00		
	0.00E+00	0.00E+00	La(NO3)3	0.00	La(NO3)3	0.0000	0.00E+00		
	9.67E-01	9.67E-01	La2O3	169.71	La2O3	0.6671	5.68E-01		
	1.98E+02	1.98E+02	La(OH)3	0.00	La(OH)3	0.0000	0.00E+00		
2.40E+04	0.00E+00	0.00E+00	LiOH	0.00	LiOH	0.0000	0.00E+00		
	6.90E+04	6.90E+04	LiNO3	0.00	LiNO3	0.0000	0.00E+00		
	5.00E+01	5.00E+01	Li2O	14,955.77	Li2O	58.7896	5.00E+01		
	8.26E+02	8.26E+02	MgCO3	0.00	MgCO3	0.0000	0.00E+00		
	1.28E+04	1.28E+04	Mg(NO3)2	0.00	Mg(NO3)2	0.0000	0.00E+00		
	4.06E+02	4.06E+02	MgO	4,273.08	MgO	16.7967	1.43E+01		
5.02E+03	2.24E+01	2.24E+01	Mg(OH)2	0.00	Mg(OH)2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Mn(NO3)2	0.00	Mn(NO3)2	0.0000	0.00E+00		
	1.59E+01	1.59E+01	MnO	4,747.86	MnO	18.6630	1.59E+01		
2.04E+03	6.62E+03	6.62E+03	MnO2	0.00	MnO2	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Mn(OH)2	0.00	Mn(OH)2	0.0000	0.00E+00		
	1.73E+01	1.73E+01	MoO3	56.00	MoO3	0.2201	1.86E-01		
	9.54E+02	9.54E+02	Na3BO3	0.00	Na3BO3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Li3PO4	0.00	Li3PO4	0.0000	0.00E+00		
6.88E+04	6.88E+04	6.88E+04	Na2B4O7	0.00	Na2B4O7	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Na2C2O4	0.00	Na2C2O4	0.0000	0.00E+00		
	7.73E+01	7.73E+01	Na2CO3	0.00	Na2CO3	0.0000	0.00E+00		
	8.56E+01	8.56E+01	NaCl	64.22	NaCl	0.2524	2.14E+01		
	0.00E+00	0.00E+00	spare	0.00	spare	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Na2CrO4	0.00	Na2CrO4	0.0000	0.00E+00		
	2.70E+02	2.70E+02	NaF	805.40	NaF	3.1659	2.68E+02		
1.39E+04	0.00E+00	0.00E+00	NaH2PO4	0.00	NaH2PO4	0.0000	0.00E+00		
	1.30E+02	1.30E+02	NaHCO3	0.00	NaHCO3	0.0000	0.00E+00		
	0.00E+00	0.00E+00	NaI	0.00	NaI	0.0000	0.00E+00		
	0.00E+00	0.00E+00	H3PO4	0.00	H3PO4	0.0000	0.00E+00		
	5.61E+01	5.61E+01	Na2MoO4	0.00	Na2MoO4	0.0000	0.00E+00		
	9.53E+02	9.53E+02	NaNO2	0.00	NaNO2	0.0000	0.00E+00		
	4.84E+04	4.84E+04	NaNO3	0.00	NaNO3	0.0000	0.00E+00		
	3.90E+03	3.90E+03	Na2O	54,220.59	Na2O	213.1319	1.81E+02		
1.09E+04	5.37E+01	5.37E+01	NaOH	0.00	NaOH	0.0000	0.00E+00		
	1.90E+04	1.90E+04	Na3PO4	0.00	Na3PO4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Na2PuO2(OH)4	0.00	Na2PuO2(OH)4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Na2RhO4	0.00	Na2RhO4	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Na2RuO4	0.00	Na2RuO4	0.0000	0.00E+00		
	6.67E+02	6.67E+02	Na2SO4	398.71	Na2SO4	1.5675	1.33E+00		
	1.05E+00	1.05E+00	Na2SeO4	0.00	Na2SeO4	0.0000	0.00E+00		
	1.26E+02	1.26E+02	Na2SiO3	0.00	Na2SiO3	0.0000	0.00E+00		
	1.15E+01	1.15E+01	NaTcO4	0.00	NaTcO4	0.0000	0.00E+00		
	5.25E+00	5.25E+00	Na2TeO4	0.00	Na2TeO4	0.0000	0.00E+00		
	7.07E-01	7.07E-01	Na2U2O7	0.00	Na2U2O7	0.0000	0.00E+00		
	0.00E+00	0.00E+00	Nd(NO3)3	0.00	Nd(NO3)3	0.0000	0.00E+00		
	1.61E+00	1.61E+00	Nd2O3	485.16	Nd2O3	1.8992	1.62E+00		
	6.73E+02	6.73E+02	Ni(NO3)2	0.00	Ni(OH)2	0.0000	0.00E+00		

	0.00E+00	0.00E+00		0.00	[illegible]	0.0000	0.00E+00	[illegible]
	4.01E+00	4.01E+00		1,199.74	Ni0	4.7160	4.01E+00	Ni0
	1.49E+03	1.49E+03		0.00	Ni(OH)2	0.0000	0.00E+00	Ni(OH)2
	0.00E+00	0.00E+00		0.00	Np(NO3)4	0.0000	0.00E+00	Np(NO3)4
	3.81E+01	3.81E+01		35.50	NpO2	0.1395	1.15E-01	NpO2
	5.59E-01	5.59E-01		0.00	Np(OH)4	0.0000	0.00E+00	Np(OH)4
	3.74E+01	3.74E+01		11,284.96	P2O5	44.0448	3.75E+01	P2O5
	0.00E+00	0.00E+00		0.00	Pa(NO3)4	0.0000	0.00E+00	Pa(NO3)4
	2.20E-03	2.20E-03		0.66	PaO2	0.0026	2.21E-03	PaO2
	7.50E-01	7.50E-01		0.00	Pa(OH)4	0.0000	0.00E+00	Pa(OH)4
	0.00E+00	0.00E+00		0.00	Pd	0.0000	0.00E+00	Pd
	0.00E+00	0.00E+00		0.00	Pd(NO3)2	0.0000	0.00E+00	Pd(NO3)2
	1.13E-01	1.13E-01		33.89	PdO	0.1332	1.13E-01	PdO
	3.89E+01	3.89E+01		0.00	Pd(OH)2	0.0000	0.00E+00	Pd(OH)2
	0.00E+00	0.00E+00		0.00	Pm(NO3)3	0.0000	0.00E+00	Pm(NO3)3
	4.34E-03	4.34E-03		1.30	Pm2O3	0.0051	4.35E-03	Pm2O3
	1.51E+00	1.51E+00		0.00	Pm(OH)3	0.0000	0.00E+00	Pm(OH)3
	0.00E+00	0.00E+00		0.00	Pr(NO3)3	0.0000	0.00E+00	Pr(NO3)3
	5.23E-01	5.23E-01		156.66	Pr2O3	0.6158	5.24E-01	Pr2O3
	1.82E+02	1.82E+02		0.00	Pr(OH)3	0.0000	0.00E+00	Pr(OH)3
	0.00E+00	0.00E+00		0.00	Pu(NO3)4	0.0000	0.00E+00	Pu(NO3)4
	3.75E+01	3.75E+01		37.38	PuO2	0.1470	1.25E-01	PuO2
	6.36E+00	6.36E+00		0.00	RbNO3	0.0000	0.00E+00	RbNO3
	1.35E-02	1.35E-02		4.03	Rb2O	0.0159	1.35E-02	Rb2O
	0.00E+00	0.00E+00		0.00	Rh	0.0000	0.00E+00	Rh
	0.00E+00	0.00E+00		0.00	Rh(NO3)4	0.0000	0.00E+00	Rh(NO3)4
	2.22E-01	2.22E-01		66.58	RhO2	0.2617	2.23E-01	RhO2
	8.44E+01	8.44E+01		0.00	Rh(OH)4	0.0000	0.00E+00	Rh(OH)4
	0.00E+00	0.00E+00		0.00	Ru	0.0000	0.00E+00	Ru
	0.00E+00	0.00E+00		0.00	Ru(NO3)4	0.0000	0.00E+00	Ru(NO3)4
	4.18E+01	4.18E+01		376.42	RuO2	1.4796	4.18E+01	RuO2
	0.00E+00	0.00E+00		0.00	spare	0.0000	0.00E+00	spare
	4.78E+02	4.78E+02		0.00	Ru(OH)4	0.0000	0.00E+00	Ru(OH)4
	0.00E+00	0.00E+00		0.00	SO3	0.0000	0.00E+00	SO3
	0.00E+00	0.00E+00		0.00	Sb(NO3)3	0.0000	0.00E+00	Sb(NO3)3
	2.13E-03	2.13E-03		0.64	Sb2O3	0.0025	2.13E-03	Sb2O3
	7.56E-01	7.56E-01		0.00	Sb(OH)3	0.0000	0.00E+00	Sb(OH)3
	3.21E-02	3.21E-02		0.61	SeO2	0.0024	3.23E-02	SeO2
	7.04E-01	7.04E-01		0.00	Si(NO3)4	0.0000	0.00E+00	Si(NO3)4
1.65E+05	2.06E+05	2.06E+05		205,819.85	SiO2	809.0428	6.88E+02	SiO2
	0.00E+00	0.00E+00		0.00	Sm(NO3)3	0.0000	0.00E+00	Sm(NO3)3
	4.38E-01	4.38E-01		131.07	Sm2O3	0.5152	4.38E-01	Sm2O3
	1.51E+02	1.51E+02		0.00	Sm(OH)3	0.0000	0.00E+00	Sm(OH)3
	7.50E-01	7.50E-01		0.00	Sn(NO3)4	0.0000	0.00E+00	Sn(NO3)4
	8.73E-03	8.73E-03		2.61	SnO2	0.0103	8.74E-03	SnO2
	2.86E+00	2.86E+00		0.00	Sn(OH)4	0.0000	0.00E+00	Sn(OH)4
	0.00E+00	0.00E+00		0.00	SrCO3	0.0000	0.00E+00	SrCO3
	1.22E-02	1.22E-02		0.00	Sr(NO3)2	0.0000	0.00E+00	Sr(NO3)2
	2.24E+01	2.24E+01		22.38	SrO	0.0880	7.48E-02	SrO
	0.00E+00	0.00E+00		0.00	Sr(OH)2	0.0000	0.00E+00	Sr(OH)2
	2.32E+02	2.32E+02		230.88	SrSO4	0.9076	7.72E-01	SrSO4
1.12E+05	1.12E+05	1.12E+05		0.00	SUGAR(C12H22O11)	0.0000	0.00E+00	SUGAR(C12H22O11)
	0.00E+00	0.00E+00		0.00	Tb(NO3)3	0.0000	0.00E+00	Tb(NO3)3
	7.09E-06	7.09E-06		0.00	Tb2O3	0.0000	7.09E-06	Tb2O3
	2.43E-03	2.43E-03		0.00	Tb(OH)3	0.0000	0.00E+00	Tb(OH)3
	1.06E+00	1.06E+00		5.61	TcO2	0.0378	1.07E+00	TcO2
	1.85E-01	1.85E-01		3.53	TeO2	0.0139	1.86E-01	Te(NO3)4
	6.87E+02	6.87E+02		0.00	Th(NO3)4	0.0000	0.00E+00	ThO2
	5.71E+01	5.71E+01		17,080.74	ThO2	67.1415	5.73E+01	Th(OH)4
	1.90E+04	1.90E+04		0.00	Th(OH)4	0.0000	0.00E+00	TiO2
4.30E+03	4.33E+03	4.33E+03		4,315.81	TiO2	16.9647	1.44E+01	UO2(NO3)2
	0.00E+00	0.00E+00		0.00	UO2(NO3)2	0.0000	0.00E+00	UO2
	9.10E+00	9.10E+00		2,746.53	UO2	10.7961	9.15E+00	UO3
	0.00E+00	0.00E+00		0.00	UO3	0.0000	0.00E+00	UO2(OH)2
	3.09E+03	3.09E+03		0.00	UO2(OH)2	0.0000	0.00E+00	V2(CO3)3
	0.00E+00	0.00E+00		0.00	V2(CO3)3	0.0000	0.00E+00	V(NO3)3
	0.00E+00	0.00E+00		0.00	V(NO3)3	0.0000	0.00E+00	V2O3
	2.97E-01	2.97E-01		88.85	V2O3	0.3493	2.97E-01	V(OH)3
	1.10E+02	1.10E+02		0.00	V(OH)3	0.0000	0.00E+00	spare
	0.00E+00	0.00E+00		0.00	spare	0.0000	0.00E+00	Zn(NO3)2
	0.00E+00	0.00E+00		0.00	Zn(NO3)2	0.0000	0.00E+00	ZnO
	3.65E-01	3.65E-01		109.12	ZnO	0.4289	3.65E-01	Zn(OH)2
	1.33E+02	1.33E+02		0.00	Zn(OH)2	0.0000	0.00E+00	Zr(NO3)4
	0.00E+00	0.00E+00		0.00	Zr(NO3)4	0.0000	0.00E+00	ZrO2
	6.01E+01	6.01E+01		807.62	ZrO2	3.1746	2.70E+00	Zr(OH)4
	9.70E+02	9.70E+02		0.00	Zr(OH)4	0.0000	0.00E+00	TOTAL SOLIDS
611,304	791,662	791,662		403,359	TOTAL SOLIDS	1,900	2,777	

3.84E+01							1.74E+05		
			8.89E+05				8.89E+05	2.49E+06	8.00E+05
							1.42E+05		
			2.70E+05				1.69E+05	7.56E+05	2.43E+05
							1.60E+02		
3.84E+01	0.00E+00	0.00E+00	1.16E+06	0.00E+00		0.00E+00	1.57E+06	3.24E+06	1.04E+06
38 GLASS FORMERS	39 MAKE-UP MELTER FEED	40 MELTER FEED	41 AIR INLEAKAGE TO SFCM	42 GLASS PRODUCTION		43 FILLED GLASS CANISTERS	44 SFCM OFF GAS	45 FILM COOLER AIR	46 PRESSURE CONTROL AIR

OFF GAS TO SBS	SBS	CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD	CHEMICAL ADD	OFF GAS	HEME	CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS
kg		kg	kg	kg	kg		kg	kg		kg	kg	kg
547,585		H2O	1,217	413,937	69,634			483,471		4,992	483,471	483,471
0.00E+00		Ag		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		AgNO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
2.35E-03		Ag2O		7.85E-05				7.85E-05			2.62E-06	2.62E-06
0.00E+00		AgOH		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		AlF3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Al(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.04E+02		Al2O3		3.46E+00				3.46E+00			1.15E-01	1.15E-01
0.00E+00		Al(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Am(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Am(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
9.03E-02		Am2O3		3.01E-03				3.01E-03			1.00E-04	1.00E-04
9.78E+02		B2O3		4.89E-01				0.00E+00			1.63E-02	1.63E-02
0.00E+00		Ba(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.68E-01		BaO		5.61E-03				5.61E-03			1.87E-04	1.87E-04
1.09E+00		BaSO4		3.65E-02				3.65E-02			1.22E-03	1.22E-03
0.00E+00		C		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		(CH2)10		0.00E+00				0.00E+00			0.00E+00	0.00E+00
9.00E+00		CaCO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		CaC2O4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		CaF2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Ca(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
7.54E+00		CaO		2.65E-01				2.65E-01			8.82E-03	8.82E-03
0.00E+00		Ca(OH)2		0.0CE+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Ca3(PO4)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		CaSO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.03E+00		Cd(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.14E-01		CeO		1.90E-02				1.90E-02			6.32E-04	6.32E-04
0.00E+00		Ce(OH)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Ce(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.02E+00		Ce2O3		3.39E-02				3.39E-02			1.13E-03	1.13E-03
0.00E+00		Ce(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Cm(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.34E-03		Cm2O3		4.46E-05				4.46E-05			1.49E-06	1.49E-06
0.00E+00		Cm(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Co		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Co(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
4.11E-03		CoO		1.37E-04				1.37E-04			4.56E-06	4.56E-06
0.00E+00		Co(OH)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Cr(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
2.23E+00		Cr2O3		7.43E-02				7.43E-02			2.48E-03	2.48E-03
0.00E+00		CrO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Cr(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		CsNO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		CsCl (SW)		0.00E+00				0.00E+00			0.00E+00	0.00E+00
8.28E+00		Cs2O		1.38E+00				1.38E+00			4.60E-02	4.60E-02
0.00E+00		spare		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Cu		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Cu(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.03E+00		CuO		3.42E-02				3.42E-02			1.14E-03	1.14E-03
0.00E+00		Cu(OH)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		CuSO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Dy(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
3.58E-06		Dy2O3		1.19E-07				1.19E-07			3.98E-09	3.98E-09
0.00E+00		Dy(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Eu(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
2.55E-02		Eu2O3		8.50E-04				8.50E-04			2.83E-05	2.83E-05
0.00E+00		Eu(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Fe		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Fe(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		FeO		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Fe(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.92E+02		Fe2O3		6.42E+00				6.42E+00			2.14E-01	2.14E-01
0.00E+00		FePO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Ge(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
5.65E-03		Ge2O3		1.88E-04				1.88E-04			6.28E-06	6.28E-06
0.00E+00		Ge(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Ge(NO3)4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
2.18E-05		GeO2		7.27E-07				7.27E-07			2.42E-08	2.42E-08
0.00E+00		Ge(OH)4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		HSBO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		H2CO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		H2C2O4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		HCl		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		HF		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		HNO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		H2SO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
6.54E+00		Hg		1.09E+00				1.09E+00			3.64E-02	3.64E-02
0.00E+00		Hg2Cl2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Hg2I2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Hg(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		HgO		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Hg(OH)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		In(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
3.02E-04		In2O3		3.01E-05				3.01E-05			1.00E-06	1.00E-06
0.00E+00		In(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		K2CrO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		KMnO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		KNO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
5.92E+01		K2O		1.97E+00				1.97E+00			6.58E-02	6.58E-02
0.00E+00		KOH		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		La(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
5.68E-01		La2O3		1.89E-02				1.89E-02			6.31E-04	6.31E-04
0.00E+00		La(OH)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		LiOH		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		LiNO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
5.00E+01		Li2O		1.67E+00				1.67E+00			5.56E-02	5.56E-02
0.00E+00		MgCO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Mg(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.43E+01		MgO		4.76E-01				4.76E-01			1.59E-02	1.59E-02
0.00E+00		Mg(OH)2		0.0CE+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Mn(NO3)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.59E+01		MnO		5.29E-01				5.29E-01			1.76E-02	1.76E-02
0.00E+00		MnO2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Mn(OH)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
5.66E-01		MoO3		2.83E-02				2.83E-02			9.43E-04	9.43E-04
0.00E+00		Na3BO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Li3PO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2B4O7		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2C2O4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2CO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
2.14E+01		NaCl		3.57E+00				3.57E+00			1.19E-01	1.19E-01
0.00E+00		spare		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2CrO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
2.68E+02		NaF		4.47E+01				4.47E+01			1.49E+00	1.49E+00
0.00E+00		NaH2PO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		NaHCO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		NaI		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		NaPO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2MoO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		NaNO2		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		NaNO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.81E+02		Na2O		6.04E+00				6.04E+00			2.01E-01	2.01E-01
0.00E+00		NaOH		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na3PO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2PuO2(OH)4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2RhO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2RuO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.33E+00		Na2SO4		4.44E-02				4.44E-02			1.48E-03	1.48E-03
0.00E+00		Na2SeO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2SiO3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		NaTcO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2TeO4		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Na2U2O7		0.00E+00				0.00E+00			0.00E+00	0.00E+00
0.00E+00		Nd(NO3)3		0.00E+00				0.00E+00			0.00E+00	0.00E+00
1.62E+00		Nd2O3		5.39E-02				5.39E-02			1.80E-03	1.80E-03
0.00E+00		Ni(OH)2		0.00E+00				0.00E+00			0.00E+00	0.00E+00

Component	47 OFF GAS TO SBS	48 SBS CHEMICAL ADD	49 SBS AIR SPARGE	50 SBS OFF GAS	51 VESSEL VENT GAS	52 DGO CHEMICAL ADD	53 DGO OFF GAS	54 HEME CHEMICAL ADD	55 HEME OFF GAS	56 FILTER PREHEATER OFF GAS
Ni(NO3)2	0.00E+00			0.00E+00			0.00E+00		[illegible]	[illegible]
NiO	4.01E+00			1.34E-01			1.34E-01		4.46E-03	4.46E-03
Ni(OH)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Np(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
NpO2	1.15E-01			3.96E-03			3.96E-03		1.32E-04	1.32E-04
Np(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
P2O5	3.75E+01			1.25E+00			1.25E+00		4.16E-02	4.16E-02
Pa(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
PaO2	2.21E-03			7.36E-05			7.36E-05		2.45E-06	2.45E-06
Pa(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pd	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pd(NO3)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
PdO	1.13E-01			3.76E-03			3.76E-03		1.26E-04	1.26E-04
Pd(OH)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pm(NO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pm2O3	4.35E-03			1.45E-04			1.45E-04		4.83E-06	4.83E-06
Pm(OH)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pr(NO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pr2O3	5.24E-01			1.75E-02			1.75E-02		5.82E-04	5.82E-04
Pr(OH)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Pu(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
PuO2	1.25E-01			4.17E-03			4.17E-03		1.39E-04	1.39E-04
RbNO3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Rb2O	1.35E-02			4.50E-04			4.50E-04		1.50E-05	1.50E-05
Rh	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Rh(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
RhO2	2.23E-01			7.42E-03			7.42E-03		2.47E-04	2.47E-04
Rh(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Ru	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Ru(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
RuO2	4.18E+01			2.09E+00			2.09E+00		6.97E-02	6.97E-02
spare	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Ru(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SO3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Sb(NO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Sb2O3	2.13E-03			7.11E-05			7.11E-05		2.37E-06	2.37E-06
Sb(OH)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SeO2	3.23E-02			5.39E-03			5.39E-03		1.80E-04	1.80E-04
Si(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SiO2	6.88E+02			2.29E+01			2.29E+01		7.65E-01	7.65E-01
Sm(NO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Sm2O3	4.38E-01			1.46E-02			1.46E-02		4.87E-04	4.87E-04
Sm(OH)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Sn(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SnO2	8.74E-03			2.51E-04			2.51E-04		9.71E-06	9.71E-06
Sn(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SrCO3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Sr(NO3)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SrO	7.48E-02			2.49E-03			2.49E-03		8.32E-05	8.32E-05
Sr(OH)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
SrSO4	7.72E-01			2.57E-02			2.57E-02		8.58E-04	8.58E-04
SUGAR(C12H22O11)	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Tb(NO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Tb2O3	7.09E-06			2.36E-07			2.36E-07		7.88E-09	7.88E-09
Tb(OH)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Tc2O7	1.07E+00			1.78E-01			1.78E-01		5.93E-03	5.93E-03
TeO2	1.86E-01			3.09E-02			3.09E-02		1.03E-03	1.03E-03
Th(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
ThO2	5.71E+01			1.90E+00			1.90E+00		6.35E-02	6.35E-02
Th(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
TiO2	1.44E+01			4.81E-01			4.81E-01		1.60E-02	1.60E-02
UO2(NO3)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
UO2	9.19E+00			3.06E-01			3.06E-01		1.02E-02	1.02E-02
UO3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
UO2(OH)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Y2(CO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Y(NO3)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Y2O3	2.97E-01			9.91E-03			9.91E-03		3.30E-04	3.30E-04
Y(OH)3	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
spare	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Zn(NO3)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
ZnO	3.65E-01			1.22E-02			1.22E-02		4.05E-04	4.05E-04
Zn(OH)2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
Zr(NO3)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
ZrO2	2.70E+00			9.00E-02			9.00E-02		3.00E-03	3.00E-03
Zr(OH)4	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
TOTAL SOLIDS	2,777			102			102		3	3
CO	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
CO2	1.74E+05			1.74E+05			1.74E+05		1.74E+05	1.74E+05
H2	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
N2	4.10E+06		4.44E+04	4.22E+06	1.78E+06		6.00E+06		6.00E+06	6.00E+06
NO	0.00E+00			0.00E+00			0.00E+00		0.00E+00	0.00E+00
NO2	1.42E+05			1.41E+05			1.41E+05		1.41E+05	1.41E+05
O2	1.17E+06		1.35E+04	1.18E+06	5.40E+05		1.72E+06		1.72E+06	1.72E+06
SO3	1.50E+02			NEGLIGIBLE			0.00E+00		0.00E+00	0.00E+00
TOTAL GASES EXCL H2O & TRACES	5.66E+06		5.79E+04	5.72E+06	2.32E+06		8.04E+06		8.04E+06	8.04E+06

S7 HEPA FILTER OFF GAS	S8 TRENCH HEATER OFF GAS	
kg	kg	
483,471	483,471	H2O
0.00E+00	0.00E+00	Ag
0.00E+00	0.00E+00	AgNO3
2.62E-12	2.62E-12	Ag2O
0.00E+00	0.00E+00	AgOH
0.00E+00	0.00E+00	AlF3
0.00E+00	0.00E+00	Al(NO3)3
1.15E-07	1.15E-07	Al2O3
0.00E+00	0.00E+00	Al(OH)3
0.00E+00	0.00E+00	Am(OH)3
0.00E+00	0.00E+00	Am(NO3)3
1.00E-10	1.00E-10	Am2O3
1.63E-08	1.63E-08	B2O3
0.00E+00	0.00E+00	Ba(NO3)2
1.87E-10	1.87E-10	BaO
1.22E-09	1.22E-09	BaSO4
0.00E+00	0.00E+00	C
0.00E+00	0.00E+00	(CH2)10
0.00E+00	0.00E+00	CaCO3
0.00E+00	0.00E+00	CaC2O4
0.00E+00	0.00E+00	CaF2
0.00E+00	0.00E+00	Ca(NO3)2
8.82E-09	8.82E-09	CaO
0.00E+00	0.00E+00	Ca(OH)2
0.00E+00	0.00E+00	Ca3(PO4)2
0.00E+00	0.00E+00	CaSO4
0.00E+00	0.00E+00	Cd(NO3)2
6.32E-10	6.32E-10	CdO
0.00E+00	0.00E+00	Cd(OH)2
0.00E+00	0.00E+00	Ce(NO3)3
1.13E-09	1.13E-09	Ce2O3
0.00E+00	0.00E+00	Ce(OH)3
0.00E+00	0.00E+00	Cm(NO3)3
1.49E-12	1.49E-12	Cm2O3
0.00E+00	0.00E+00	Cm(OH)3
0.00E+00	0.00E+00	Co
0.00E+00	0.00E+00	Co(NO3)2
4.54E-12	4.54E-12	CoO
0.00E+00	0.00E+00	Co(OH)2
0.00E+00	0.00E+00	Cr(NO3)3
2.48E-09	2.48E-09	Cr2O3
0.00E+00	0.00E+00	CrO3
0.00E+00	0.00E+00	Cr(OH)3
0.00E+00	0.00E+00	CsNO3
0.00E+00	0.00E+00	CsCl (SW)
4.60E-08	4.60E-08	Cs2O
0.00E+00	0.00E+00	spore
0.00E+00	0.00E+00	Cu
0.00E+00	0.00E+00	Cu(NO3)2
1.14E-09	1.14E-09	CuO
0.00E+00	0.00E+00	Cu(OH)2
0.00E+00	0.00E+00	CuSO4
0.00E+00	0.00E+00	Dy(NO3)3
3.98E-15	3.98E-15	Dy2O3
0.00E+00	0.00E+00	Dy(OH)3
0.00E+00	0.00E+00	Eu(NO3)3
2.83E-11	2.83E-11	Eu2O3
0.00E+00	0.00E+00	Eu(OH)3
0.00E+00	0.00E+00	Fe
0.00E+00	0.00E+00	Fe(NO3)3
0.00E+00	0.00E+00	FeO
0.00E+00	0.00E+00	Fe(OH)3
2.14E-07	2.14E-07	Fe2O3
0.00E+00	0.00E+00	FePO4
0.00E+00	0.00E+00	Gd(NO3)3
6.28E-12	6.28E-12	Gd2O3
0.00E+00	0.00E+00	Gd(OH)3
0.00E+00	0.00E+00	Ge(NO3)4
2.42E-14	2.42E-14	GeO2
0.00E+00	0.00E+00	Ge(OH)4
0.00E+00	0.00E+00	H3BO3
0.00E+00	0.00E+00	H2CO3
0.00E+00	0.00E+00	H2C2O4
0.00E+00	0.00E+00	HCl
0.00E+00	0.00E+00	HF
0.00E+00	0.00E+00	HNO3
0.00E+00	0.00E+00	H2SO4
3.64E-08	3.64E-08	Hg
0.00E+00	0.00E+00	Hg2Cl2
0.00E+00	0.00E+00	Hg2I2
0.00E+00	0.00E+00	Hg(NO3)2
0.00E+00	0.00E+00	HgO
0.00E+00	0.00E+00	Hg(OH)2
0.00E+00	0.00E+00	In(NO3)3
1.00E-12	1.00E-12	In2O3
0.00E+00	0.00E+00	In(OH)3
0.00E+00	0.00E+00	K2CrO4
0.00E+00	0.00E+00	KMnO4
0.00E+00	0.00E+00	KNO3
6.58E-08	6.58E-08	K2O
0.00E+00	0.00E+00	KOH
0.00E+00	0.00E+00	La(NO3)3
6.31E-10	6.31E-10	La2O3
0.00E+00	0.00E+00	La(OH)3
0.00E+00	0.00E+00	LiOH
0.00E+00	0.00E+00	LiNO3
5.56E-08	5.56E-08	Li2O
0.00E+00	0.00E+00	MgCO3
0.00E+00	0.00E+00	Mg(NO3)2
1.59E-08	1.59E-08	MgO
0.00E+00	0.00E+00	Mg(OH)2
0.00E+00	0.00E+00	Mn(NO3)2
1.76E-08	1.76E-08	MnO
0.00E+00	0.00E+00	MnO2
0.00E+00	0.00E+00	Mn(OH)2
9.43E-10	9.43E-10	Mo03
0.00E+00	0.00E+00	Na3BO3
0.00E+00	0.00E+00	Li3PO4
0.00E+00	0.00E+00	Na2B4O7
0.00E+00	0.00E+00	Na2C2O4
0.00E+00	0.00E+00	Na2CO3
1.19E-07	1.19E-07	NaCl
0.00E+00	0.00E+00	spore
0.00E+00	0.00E+00	Na2CrO4
1.49E-06	1.49E-06	NaF
0.00E+00	0.00E+00	NaH2PO4
0.00E+00	0.00E+00	NaHCO3
0.00E+00	0.00E+00	NaI
0.00E+00	0.00E+00	H3PO4
0.00E+00	0.00E+00	Na2MoO4
0.00E+00	0.00E+00	NaNO2
0.00E+00	0.00E+00	NaNO3
2.01E-07	2.01E-07	Na2O
0.00E+00	0.00E+00	NaOH
0.00E+00	0.00E+00	Na3PO4
0.00E+00	0.00E+00	Na2PuO2(OH)4
0.00E+00	0.00E+00	Na2RhO4
0.00E+00	0.00E+00	Na2RuO4
1.48E-09	1.48E-09	Na2SO4
0.00E+00	0.00E+00	Na2SeO4
0.00E+00	0.00E+00	Na2SiO3
0.00E+00	0.00E+00	Na2TcO4
0.00E+00	0.00E+00	Na2TeO4
0.00E+00	0.00E+00	Na2U2O7
0.00E+00	0.00E+00	Nd(NO3)3
1.80E-09	1.80E-09	Nd2O3
0.00E+00	0.00E+00	Nd(OH)3

4.46E-09	4.46E-09 MnO
0.00E+00	0.00E+00 Mn(OH)2
0.00E+00	0.00E+00 Mn(NO3)4
1.32E-10	1.32E-10 MnO2
0.00E+00	0.00E+00 Mn(OH)4
4.16E-08	4.16E-08 P2O5
0.00E+00	0.00E+00 Pa(NO3)4
2.45E-12	2.45E-12 PaO2
0.00E+00	0.00E+00 Pa(OH)4
0.00E+00	0.00E+00 Pd
0.00E+00	0.00E+00 Pd(NO3)2
1.26E-10	1.26E-10 PdO
0.00E+00	0.00E+00 Pd(OH)2
0.00E+00	0.00E+00 Pm(NO3)3
4.83E-12	4.83E-12 Pm2O3
0.00E+00	0.00E+00 Pm(OH)3
0.00E+00	0.00E+00 Pr(NO3)3
5.82E-10	5.82E-10 Pr2O3
0.00E+00	0.00E+00 Pr(OH)3
0.00E+00	0.00E+00 Pu(NO3)4
1.39E-10	1.39E-10 PuO2
0.00E+00	0.00E+00 RbNO3
1.50E-11	1.50E-11 Rb2O
0.00E+00	0.00E+00 Rh
0.00E+00	0.00E+00 Rh(NO3)4
2.47E-10	2.47E-10 RhO2
0.00E+00	0.00E+00 Rh(OH)4
0.00E+00	0.00E+00 Ru
0.00E+00	0.00E+00 Ru(NO3)4
6.97E-08	6.97E-08 RuO2
0.00E+00	0.00E+00 spare
0.00E+00	0.00E+00 Ru(OH)4
0.00E+00	0.00E+00 SO3
0.00E+00	0.00E+00 Sb(NO3)3
2.37E-12	2.37E-12 Sb2O3
0.00E+00	0.00E+00 Sb(OH)3
1.80E-10	1.80E-10 SeO2
0.00E+00	0.00E+00 Si(NO3)4
7.65E-07	7.65E-07 SiO2
0.00E+00	0.00E+00 Sm(NO3)3
4.87E-10	4.87E-10 Sm2O3
0.00E+00	0.00E+00 Sm(OH)3
0.00E+00	0.00E+00 Sn(NO3)4
9.71E-12	9.71E-12 SnO2
0.00E+00	0.00E+00 Sn(OH)4
0.00E+00	0.00E+00 SrCO3
0.00E+00	0.00E+00 Sr(NO3)2
8.32E-11	8.32E-11 SrO
0.00E+00	0.00E+00 Sr(OH)2
8.58E-10	8.58E-10 SrSO4
0.00E+00	0.00E+00 SUGAR(C12H22O11)
0.00E+00	0.00E+00 Tb(NO3)3
7.88E-15	7.88E-15 Tb2O3
0.00E+00	0.00E+00 Tb(OH)3
5.93E-09	5.93E-09 Tc2O7
1.03E-09	1.03E-09 TeO2
0.00E+00	0.00E+00 Th(NO3)4
6.35E-08	6.35E-08 ThO2
0.00E+00	0.00E+00 Th(OH)4
1.60E-06	1.60E-06 TiO2
0.00E+00	0.00E+00 UO2(NO3)2
1.02E-08	1.02E-08 UO2
0.00E+00	0.00E+00 UO3
0.00E+00	0.00E+00 UO2(OH)2
0.00E+00	0.00E+00 Y2(CO3)3
0.00E+00	0.00E+00 Y(NO3)3
3.30E-10	3.30E-10 Y2O3
0.00E+00	0.00E+00 Y(OH)3
0.00E+00	0.00E+00 spare
0.00E+00	0.00E+00 Zn(NO3)2
4.05E-10	4.05E-10 ZnO
0.00E+00	0.00E+00 Zn(OH)2
0.00E+00	0.00E+00 Zr(NO3)4
3.00E-09	3.00E-09 ZrO2
0.00E+00	0.00E+00 Zr(OH)4
3.40E-06	3.40E-06 TOTAL SOLIDS
0.00E+00	0.00E+00 CO
1.74E+05	1.74E+05 CO2
0.00E+00	0.00E+00 H2
6.00E+06	6.00E+06 N2
0.00E+00	0.00E+00 NO
1.41E+05	1.41E+05 NO2
1.72E+06	1.72E+06 O2
0.00E+00	0.00E+00 SO3
8.04E+06	8.04E+06 TOTAL GASES EXCL H2O & TRACES

S7	S8
HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS

CURIE	YEARS	GENERATION WATTS/CURIE	SUPERNATANT 1990 Ci	SLUDGE 1990 Ci	WASTE 1990 Ci	SUPERNATANT 1990 Ci	SLUDGE 1990 Ci	WASTE 1990 Ci	CONDENSATE Ci
3-H	1.23E+01	3.30E-05	1.47E+00	0.00E+00	1.47E+00	8.23E+01	0.00E+00	8.23E+01	
14-C	5.73E+03	2.92E-04	1.30E-01	0.00E+00	1.30E-01	1.37E+02	0.00E+00	1.37E+02	
55-Fe	2.60E+00	3.30E-05	2.83E+02	0.00E+00	2.83E+02	0.00E+00	4.49E+02	4.49E+02	
60-Co	5.27E+00	1.54E-02	7.68E+02	0.00E+00	7.68E+02	0.00E+00	3.17E+00	3.17E+00	
59-Ni	8.00E+04	3.97E-05	2.03E+01	0.00E+00	2.03E+01	0.00E+00	8.56E+01	8.56E+01	
63-Ni	9.20E+01	3.97E-04	2.45E+03	0.00E+00	2.45E+03	6.69E+02	5.22E+03	6.09E+03	
79-Se	6.50E+04	2.49E-04	3.35E+00	0.00E+00	3.35E+00	..68E+01	0.00E+00	5.68E+01	
90-Sr	2.91E+01	1.16E-03	4.23E+05	0.00E+00	4.23E+05	2.69E+03	6.28E+06	6.28E+06	5.42E+02
90-Y	7.50E-03	8.54E-05	4.23E+05	0.00E+00	4.23E+05	2.69E+03	6.28E+06	6.28E+06	5.42E+02
93-Zr	1.53E+06	1.16E-04	1.62E+01	0.00E+00	1.62E+01	2.56E+01	2.56E+02	2.56E+02	
93m-Nb	1.56E+01	1.77E-04	1.11E+01	0.00E+00	1.11E+01	1.73E+01	1.71E+02	1.71E+02	
99-Tc	2.13E+05	5.01E-04	1.04E+02	0.00E+00	1.04E+02	1.60E+03	0.00E+00	1.60E+03	
106-Ru	1.01E+00	8.95E-05	7.96E-02	0.00E+00	7.96E-02	1.40E-02	1.40E+01	1.41E+01	
106-Rh	9.40E-07	9.59E-05	7.97E-02	0.00E+00	7.97E-02	1.40E-02	1.40E+01	1.41E+01	
107-Pd	6.50E+06	5.93E-05	1.14E-01	0.00E+00	1.14E-01	1.09E-02	1.09E+01	1.09E+01	
113m-Cd	1.46E+01	1.68E-03	3.25E+01	0.00E+00	3.25E+01	2.09E+00	2.09E+03	2.09E+03	
121m-Sn	5.00E+01	2.00E-03	5.75E-01	0.00E+00	5.75E-01	1.69E-02	1.69E+01	1.69E+01	
126-Sn	1.00E+05	1.25E-03	5.11E+00	0.00E+00	5.11E+00	1.01E-01	1.01E+02	1.01E+02	
125-Sb	2.77E+00	3.13E-03	1.36E+02	0.00E+00	1.36E+02	2.51E+01	7.13E+03	7.15E+03	
126-Sb	3.40E+02	1.86E-02	4.35E-01	0.00E+00	4.35E-01	1.41E-02	1.41E+01	1.42E+01	
126m-Sb	3.61E-05	1.27E-02	5.11E+00	0.00E+00	5.11E+00	1.01E-01	1.01E+02	1.01E+02	
125m-Te	1.59E-01	8.41E-04	3.54E+01	0.00E+00	3.54E+01	5.67E+00	1.75E+03	1.75E+03	
129-I	1.57E+07	4.63E-04	1.80E-01	0.00E+00	1.80E-01	2.10E-01	0.00E+00	2.10E-01	
134-Cs	2.06E+00	1.02E-02	1.13E+02	0.00E+00	1.13E+02	5.07E+03	0.00E+00	5.07E+03	
135-Cs	2.30E+06	3.54E-04	5.47E+00	0.00E+00	5.47E+00	1.56E+02	0.00E+00	1.56E+02	
137-Cs	3.00E+01	1.11E-03	4.43E+05	0.00E+00	4.43E+05	6.77E+06	0.00E+00	6.77E+06	5.44E+02
137m-Ba	4.85E-06	3.13E-03	4.19E+05	0.00E+00	4.19E+05	6.41E+06	0.00E+00	6.41E+06	5.15E+02
144-Ce	7.79E-01	6.63E-04	9.63E-03	0.00E+00	9.63E-03	1.45E-04	6.38E-01	6.38E-01	
144-Pr	3.29E-05	7.35E-03	9.64E-03	0.00E+00	9.64E-03	1.45E-04	6.39E-01	6.39E-01	
146-Pm	5.50E+00	6.04E-03	3.47E-01	0.00E+00	3.47E-01	5.27E-02	1.05E+01	1.05E+01	
147-Pm	2.62E+00	3.19E-04	4.12E+03	0.00E+00	4.12E+03	2.50E+02	8.37E+04	8.39E+04	
151-Sm	9.00E+01	1.17E-04	4.67E+03	0.00E+00	4.67E+03	4.92E-01	7.96E+04	7.96E+04	
152-Eu	1.36E+01	7.28E-03	4.14E+01	0.00E+00	4.14E+01	3.92E-02	3.24E+02	3.24E+02	
154-Eu	8.60E+00	8.94E-03	1.99E+03	0.00E+00	1.99E+03	1.13E+01	9.34E+04	9.35E+04	
155-Eu	4.96E+00	7.27E-04	5.55E+02	0.00E+00	5.55E+02	1.56E+00	2.35E+04	2.35E+04	
207-Tl	9.08E-06	2.94E-03	8.19E+00	0.00E+00	8.19E+00	1.87E-02	8.55E-04	8.55E-04	
208-Tl	5.84E-06	2.36E-02	2.18E+00	0.00E+00	2.18E+00	7.31E-02	1.04E+00	1.11E+00	
209-Pb	3.76E-04	1.15E-03	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
211-Pb	6.87E-05	3.00E-03	8.22E+00	0.00E+00	8.22E+00	1.88E-02	8.57E-04	8.57E-04	
212-Pb	1.21E-03	1.90E-03	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.80E+00	3.09E+00	
211-Bi	4.06E-06	3.99E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-02	8.57E-04	8.57E-04	
212-Bi	1.15E-04	1.70E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.80E+00	3.09E+00	
213-Bi	8.68E-05	4.20E-03	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
212-Po	9.81E-15	5.50E-02	3.90E+00	0.00E+00	3.90E+00	1.30E-01	1.05E+00	1.18E+00	
213-Po	1.33E-13	5.06E-02	2.03E-01	0.00E+00	2.03E-01	1.38E-04	1.93E-03	2.07E-03	
215-Po	8.65E-11	4.46E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-02	8.57E-04	8.57E-04	
216-Po	4.76E-09	4.09E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.80E+00	3.09E+00	
217-Po	1.02E-09	4.27E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
219-Rn	1.26E-07	4.15E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-02	8.57E-04	8.57E-04	
220-Rn	1.76E-06	3.80E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.80E+00	3.09E+00	
221-Fr	9.15E-06	3.86E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
223-Fr	4.15E-05	2.60E-03	1.13E-01	0.00E+00	1.13E-01	2.59E-10	1.10E-06	1.10E-06	
223-Ra	3.15E-02	3.56E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-02	8.57E-04	8.57E-04	
224-Ra	1.00E-02	3.43E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.80E+00	3.09E+00	
225-Ra	4.06E-02	7.01E-04	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
228-Ra	6.70E+00	7.71E-05	1.52E+00	0.00E+00	1.52E+00	0.00E+00	5.09E-09	5.09E-09	
225-Ac	2.74E-02	3.49E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
227-Ac	2.18E+01	4.84E-04	8.22E+00	0.00E+00	8.22E+00	1.88E-02	8.57E-04	8.57E-04	
228-Ac	7.00E-04	8.64E-03	1.52E+00	0.00E+00	1.52E+00	0.00E+00	5.09E-09	5.09E-09	
227-Th	5.13E-02	3.65E-02	8.10E+00	0.00E+00	8.10E+00	1.85E-02	8.45E-04	8.45E-04	
228-Th	1.92E+00	3.27E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.80E+00	3.09E+00	
229-Th	7.34E+03	3.06E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03	2.11E-03	
230-Th	7.70E+04	3.83E-02	4.38E-02	0.00E+00	4.38E-02	7.57E-06	1.46E-02	1.46E-02	
231-Th	2.91E-03	5.51E-04	5.17E-03	0.00E+00	5.17E-03	6.41E-03	8.94E-02	9.58E-02	
232-Th	1.41E+10	2.42E-02	1.64E+00	0.00E+00	1.64E+00	0.00E+00	5.87E-09	5.87E-09	
234-Th	6.60E-02	4.06E-04	7.11E-05	0.00E+00	7.11E-05	5.71E-02	7.97E-01	8.54E-01	
231-Pa	3.28E+04	3.01E-02	1.52E+01	0.00E+00	1.52E+01	4.06E-07	2.98E-04	2.98E-04	
233-Pa	7.40E-02	2.27E-03	5.02E-01	0.00E+00	5.02E-01	3.25E-06	2.31E+01	2.31E+01	
234m-Pa	2.23E-06	4.94E-03	7.11E-05	0.00E+00	7.11E-05	5.71E-02	7.97E-01	8.54E-01	
232-U	7.20E+01	3.21E-02	2.66E+00	0.00E+00	2.66E+00	3.04E-01	4.25E+00	4.56E+00	
233-U	1.59E+05	2.91E-03	2.09E+00	0.00E+00	2.09E+00	4.98E-01	6.94E+00	7.44E+00	
234-U	2.45E+05	2.88E-02	2.21E-01	0.00E+00	2.21E-01	2.81E-01	3.97E+00	4.25E+00	
235-U	7.04E+	2.62E-02	5.17E-03	0.00E+00	5.17E-03	6.41E-03	8.94E-02	9.58E-02	
236-U	2.34E	2.71E-02	9.80E-03	0.00E+00	9.80E-03	1.91E-02	2.67E-01	2.86E-01	
238-U	4.47E	2.54E-02	7.11E-05	0.00E+00	7.11E-05	5.71E-02	7.97E-01	8.54E-01	
236-Np	1.15E	2.02E-03	1.23E-01	0.00E+00	1.23E-01	0.00E+00	9.35E+00	9.35E+00	
237-Np	2.14E+06	3.06E-02	5.02E-01	0.00E+00	5.02E-01	3.25E-06	2.31E+01	2.31E+01	
239-Np	6.45E-03	2.42E-03	7.83E+00	0.00E+00	7.83E+00	0.00E+00	3.39E+02	3.39E+02	
236-Pu	2.85E+00	3.49E-02	1.09E-02	0.00E+00	1.09E-02	6.56E-03	8.28E-01	8.35E-01	
238-Pu	8.78E+01	3.31E-02	4.69E+02	0.00E+00	4.69E+02	1.24E+02	7.62E+03	7.74E+03	
239-Pu	2.41E+04	3.04E-02	1.54E+01	0.00E+00	1.54E+01	2.54E+01	1.61E+03	1.64E+03	
240-Pu	6.54E+03	3.11E-02	8.09E+00	0.00E+00	8.09E+00	1.87E+01	1.18E+03	1.20E+03	
241-Pu	1.44E+01	3.10E-05	7.36E+02	0.00E+00	7.36E+02	1.26E+03	7.99E+04	8.12E+04	
242-Pu	3.87E+05	2.95E-02	1.19E-02	0.00E+00	1.19E-02	2.54E-02	1.61E+00	1.64E+00	
241-Am	4.32E+02	3.32E-02	2.44E+02	0.00E+00	2.44E+02	6.53E+00	5.32E+04	5.32E+04	
242-Am	1.83E-03	1.14E-03	6.66E+00	0.00E+00	6.66E+00	0.00E+00	2.89E+02	2.89E+02	
242m-Am	1.52E+02	3.95E-04	6.70E+00	0.00E+00	6.70E+00	0.00E+00	2.90E+02	2.90E+02	
243-Am	7.38E+03	3.21E-02	7.83E+00	0.00E+00	7.83E+00	0.00E+00	3.39E+02	3.39E+02	
242-Cm	4.47E-01	1.16E-03	5.53E+00	0.00E+00	5.53E+00	0.00E+00	2.39E+02	2.39E+02	
243-Cm	2.85E+01	3.67E-02	2.18E-01	0.00E+00	2.18E-01	0.00E+00	1.34E+02	1.34E+02	
244-Cm	1.81E+01	3.50E-02	1.22E+01	0.00E+00	1.22E+01	0.00E+00	7.63E+03	7.63E+03	
245-Cm	8.50E+03	3.32E-02	2.00E-02	0.00E+00	2.00E-02	0.00E+00	8.62E-01	8.62E-01	
246-Cm	4.74E+03	3.27E-02	2.29E-03	0.00E+00	2.29E-03	0.00E+00	9.87E-02	9.87E-02	

TOTALS

WEIGHT,KG		85,238	36.00	85,273	2,956,202	97,171	2,953,373	659,000
VOLUME,L		51,328	6.00	51,334	2,252,000	27,700	2,270,000	654,000
ACTIVITY,Ci		1,724,936	0.00E+00	1,724,936	13,197,046	13,002,812	26,199,858	2,142
ACTINIDES,Ci		1,519	0.00E+00	1,519	1,458	152,957	154,395	0.00E+00
HEAT GEN.,W		5,036	0.00E+00	5,036	32,780	45,377	78,157	6.26
Sp0		1.66	5.85	1.66	1.27	3.50	1.30	1.01

CHEMICAL ADD Ci	WATER ADD Ci		PUREX WASTE Ci	PUREX SUPERNATANT Ci	PUREX SLUDGE Ci	WASH WATER Ci	SLURRY #01 Ci	SLURRY #01 Ci	WASH SUPERNATANT Ci	PUREX SLUDGE Ci
		3-H	8.23E+01	7.33E+01	8.94E+00				8.69E+00	2.52E-03
		14-C	1.37E+02	1.22E+02	1.49E+01				1.48E+01	4.19E-01
		59-Ni	4.49E+02	0.00E+00	4.49E+02				0.00E+00	4.49E+02
		60-Co	3.17E+00	0.00E+00	3.17E+00				0.00E+00	3.17E+00
		63-Ni	8.56E+01	0.00E+00	8.56E+01				0.00E+00	8.56E+01
		63-Ni	8.09E+03	7.75E+02	8.32E+03				9.18E+01	8.23E+03
		79-Se	5.68E+01	5.06E+01	6.17E+00				4.00E+00	1.74E-01
		90-Sr	6.28E+06	2.40E+03	6.28E+06				2.84E+02	6.28E+06
		90-Y	6.28E+06	2.40E+03	6.28E+06				2.84E+02	6.28E+06
		93-Zr	2.56E+02	2.28E-01	2.56E+02				2.70E-02	2.54E+02
		93m-Nb	1.71E+02	1.54E-01	1.71E+02				1.82E-02	1.71E+02
		99-Tc	1.60E+03	1.43E+03	1.74E+02				1.69E+02	4.90E+00
		106-Ru	1.41E+01	1.25E-02	1.40E+01				1.48E-03	1.40E+01
		106-Rh	1.41E+01	1.25E-02	1.40E+01				1.48E-03	1.40E+01
		107-Pd	1.09E+01	9.72E-03	1.09E+01				1.15E-03	1.09E+01
		113m-Cd	2.09E+03	1.86E+00	2.09E+03				2.21E-01	2.09E+03
		121m-Sn	1.69E+01	1.50E-02	1.69E+01				1.78E-03	1.69E+01
		126-Sn	1.01E+02	9.00E-02	1.01E+02				1.07E-02	1.01E+02
		125-Sb	7.15E+03	2.06E+01	7.13E+03				2.44E+00	7.13E+03
		126-Sb	1.42E+01	1.26E-02	1.41E+01				1.49E-03	1.41E+01
		126m-Sb	1.01E+02	9.00E-02	1.01E+02				1.07E-02	1.01E+02
		125m-Te	1.75E+03	5.09E+00	1.75E+03				5.99E-01	1.75E+03
		129-I	2.10E-01	1.87E-01	2.28E-02				2.22E-02	6.43E-04
		134-Cs	5.07E+03	4.51E+03	5.51E+02		5.04E+03		5.35E+02	1.55E+01
		135-Cs	1.56E+02	1.39E+02	1.70E+01		1.55E+02		1.65E+01	4.77E-01
		137-Cs	6.77E+06	6.04E+06	7.36E+05		6.75E+06		7.16E+05	2.07E+04
		137m-Ba	6.41E+06	5.71E+06	6.97E+05		6.38E+06		6.77E+05	1.96E+04
		144-Ce	6.38E-01	1.29E-04	6.38E-01				1.53E-07	6.38E-01
		144-Pr	6.39E-01	1.29E-04	6.39E-01				1.53E-07	6.39E-01
		146-Pm	1.05E+01	2.91E-02	1.05E+01				3.45E-03	1.05E+01
		147-Pm	8.37E+04	2.30E+02	8.37E+04				2.75E+01	8.37E+04
		151-Sm	7.96E+04	4.38E-01	7.96E+04				9.19E-02	7.96E+04
		152-Eu	3.24E+02	7.50E-02	3.24E+02				4.14E-03	3.24E+02
		154-Eu	9.35E+04	1.01E+01	9.34E+04				1.19E+00	9.34E+04
		155-Eu	2.33E+04	1.39E+00	2.33E+04				1.65E-01	2.33E+04
		155-Eu	8.55E-04	1.67E-08	8.55E-04				1.98E-09	8.55E-04
		207-Tl	1.11E+00	6.81E-02	1.04E+00				7.72E-03	1.04E+00
		208-Tl	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		209-Pb	8.57E-04	1.67E-08	8.57E-04				1.98E-09	8.57E-04
		211-Pb	3.09E+00	1.81E-01	2.91E+00				2.15E-02	2.89E+00
		212-Pb	8.57E-04	1.67E-08	8.57E-04				1.98E-09	8.57E-04
		211-Bi	3.09E+00	1.81E-01	2.91E+00				2.15E-02	2.89E+00
		212-Bi	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		213-Bi	1.99E+00	1.16E-01	1.86E+00				1.38E-02	1.85E+00
		212-Po	2.07E-03	1.23E-04	1.94E-03				1.46E-05	1.93E-03
		213-Po	8.57E-04	1.67E-08	8.57E-04				1.98E-09	8.57E-04
		215-Po	3.09E+00	1.81E-01	2.91E+00				2.15E-02	2.89E+00
		216-Po	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		217-At	8.57E-04	1.67E-08	8.57E-04				1.98E-09	8.57E-04
		219-Rn	3.09E+00	1.81E-01	2.91E+00				2.15E-02	2.89E+00
		220-Rn	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		221-Fr	1.18E-05	2.31E-10	1.18E-05				2.74E-11	1.18E-05
		223-Fr	8.57E-04	1.67E-08	8.57E-04				1.98E-09	8.57E-04
		223-Ra	3.09E+00	1.81E-01	2.91E+00				2.15E-02	2.89E+00
		224-Ra	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		225-Ra	5.09E-09	0.00E+00	5.09E-09				0.00E+00	5.09E-09
		228-Ra	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		225-Ac	8.57E-04	1.67E-08	8.57E-04				1.98E-09	8.57E-04
		227-Ac	5.09E-09	0.00E+00	5.09E-09				0.00E+00	5.09E-09
		228-Ac	8.45E-04	1.65E-08	8.45E-04				1.96E-09	8.45E-04
		227-Th	3.09E+00	1.81E-01	2.91E+00				2.15E-02	2.89E+00
		228-Th	2.11E-03	1.26E-04	1.99E-03				1.49E-05	1.97E-03
		229-Th	1.46E-02	6.75E-06	1.46E-02				8.00E-07	1.46E-02
		230-Th	9.58E-02	5.71E-03	9.01E-02				6.77E-04	8.94E-02
		231-Th	5.87E-09	0.00E+00	5.87E-09				0.00E+00	5.87E-09
		232-Th	8.54E-[illegible]	5.09E-02	8.03E-01				6.03E-03	7.97E-01
		231-Pa	2.98E-[illegible]	3.62E-07	2.98E-04				4.29E-08	2.98E-04
		233-Pa	2.31E-[illegible]	2.90E-06	2.31E+01				3.43E-07	2.31E+01
		234m-Pa	8.54E-[illegible]	5.09E-02	8.03E-01				6.03E-03	7.97E-01
		232-U	4.56E+00	2.71E-01	4.29E+00				3.22E-02	4.26E+00
		233-U	7.44E+00	4.44E-01	6.99E+00				5.26E-02	6.94E+00
		234-U	4.25E+00	2.51E-01	4.00E+00				2.97E-02	3.97E+00
		235-U	9.58E-02	5.71E-03	9.01E-02				6.77E-04	8.94E-02
		236-U	2.86E-01	1.70E-02	2.69E-01				2.02E-03	2.67E-01
		238-U	8.54E-01	5.09E-02	8.03E-01				6.03E-03	7.97E-01
		236-Np	9.35E+00	0.00E+00	9.35E+00				0.00E+00	9.35E+00
		237-Np	2.31E+01	2.90E-06	2.31E+01				3.43E-07	2.31E+01
		239-Np	5.39E+02	0.00E+00	5.39E+02				0.00E+00	5.39E+02
		236-Pu	8.35E-01	5.84E-03	8.29E-01				6.93E-04	8.28E-01
		238-Pu	7.94E+03	1.11E+02	7.83E+03				1.31E+01	7.82E+03
		239-Pu	1.64E+03	2.26E+01	1.61E+03				2.68E+00	1.61E+03
		240-Pu	1.20E+03	1.67E+01	1.18E+03				1.97E+00	1.18E+03
		241-Pu	8.12E+04	1.13E+03	8.00E+04				1.34E+02	7.99E+04
		242-Pu	1.64E+00	2.26E-02	1.61E+00				2.68E-03	1.61E+00
		241-Am	5.32E+04	8.82E+00	5.32E+04				6.89E-01	5.32E+04
		242-Am	2.89E+02	0.00E+00	2.89E+02				0.00E+00	2.89E+02
		242m-Am	2.90E+02	0.00E+00	2.90E+02				0.00E+00	2.90E+02
		243-Am	3.39E+02	0.00E+00	3.39E+02				0.00E+00	3.39E+02
		242-Cm	2.39E+02	0.00E+00	2.39E+02				0.00E+00	2.39E+02
		243-Cm	1.34E+02	0.00E+00	1.34E+02				0.00E+00	1.34E+02
		244-Cm	7.63E+03	0.00E+00	7.63E+03				0.00E+00	7.63E+03
		245-Cm	8.62E-01	0.00E+00	8.62E-01				0.00E+00	8.62E-01
		246-Cm	9.87E-02	0.00E+00	9.87E-02				0.00E+00	9.87E-02
WEIGHT,KG			2,953,373	2,545,723	407,650	1,618,620	241,331	3,455	2,493,775	509,926
VOLUME,L			2,270,000	2,007,200	272,500	1,618,620	224,145	3,198	2,364,500	454,000
ACTIVITY,Ci			26,199,858	11,762,483	14,437,375	0.00E+00	13,133,669	Negligible	1,394,175	13,043,201
ACTINIDES,Ci			154,395	1,282	153,113	0.00E+00	0.00E+00	Negligible	151.96	152,961
HEAT GEN.,W			78,157	29,217	48,94[illegible]	0.00E+00	32,622	Negligible	3,463	45,477
Sp.G				1.27	1.50	1.00	1.08	1.08	1.05	1.17

WASTE BLEND	HEEL FLUSH	CHEMICAL ADD	WATER ADD		THOREX WASTE	ADDITION TO 802 (SO2)	WATER FLUSH TO 802	TANK FLUSH	THOREX WASTE IN 802	SYSTEM FEED 802
Ci	Ci	Ci	Ci		Ci	Ci	Ci	Ci	Ci	Ci
0.00E+00				3-H	1.47E+00				1.47E+00	1.72E+00
0.00E+00				14-C	1.30E-01				1.30E-01	5.49E-01
0.00E+00				55-Fe	2.53E+02				2.53E+02	7.02E+02
0.00E+00				60-Co	7.68E+02				7.68E+02	7.71E+02
0.00E+00				59-Ni	2.03E+01				2.03E+01	1.06E+02
0.00E+00				63-Ni	2.45E+03				2.45E+03	7.68E+03
0.00E+00				79-Se	3.35E+00				3.35E+00	3.52E+00
5.42E+02				90-Sr	4.23E+05				4.23E+05	6.70E+06
5.42E+02				90-Y	4.23E+05				4.23E+05	6.70E+06
0.00E+00				93-Zr	1.62E+01				1.62E+01	2.72E+02
0.00E+00				93m-Nb	1.11E+01				1.11E+01	1.82E+02
0.00E+00				99-Tc	1.04E+02				1.04E+02	1.09E+02
0.00E+00				106-Ru	7.96E-02				7.96E-02	1.41E+01
0.00E+00				106-Rh	7.97E-02				7.97E-02	1.41E+01
0.00E+00				107-Pd	1.14E-01				1.14E-01	1.10E+01
0.00E+00				113m-Cd	3.25E+01				3.25E+01	2.12E+03
0.00E+00				121m-Sn	5.75E-01				5.75E-01	1.75E+01
0.00E+00				126-Sn	3.11E+00				3.11E+00	1.04E+02
0.00E+00				125-Sb	1.36E+02				1.36E+02	7.26E+03
0.00E+00				126-Sb	4.35E-01				4.35E-01	1.46E+01
0.00E+00				126m-Sb	3.11E+00				3.11E+00	1.04E+02
0.00E+00				125m-Te	5.54E+01				5.54E+01	1.79E+03
0.00E+00				129-I	1.80E-01				1.80E-01	1.81E-01
5.04E+03				134-Cs	1.13E+02				1.13E+02	5.17E+03
1.55E+02				135-Cs	5.47E+00				5.47E+00	1.61E+02
6.75E+06				137-Cs	4.43E+05				4.43E+05	7.21E+06
6.38E+06				137m-Ba	4.19E+05				4.19E+05	6.82E+06
0.00E+00				144-Ce	9.63E-03				9.63E-03	6.48E-01
0.00E+00				144-Pr	9.64E-03				9.64E-03	6.49E-01
0.00E+00				146-Pm	3.47E-01				3.47E-01	1.08E+01
0.00E+00				147-Pm	4.12E+03				4.12E+03	8.78E+04
0.00E+00				151-Sm	4.67E+03				4.67E+03	8.43E+04
0.00E+00				152-Eu	4.14E+01				4.14E+01	3.65E+02
0.00E+00				154-Eu	1.99E+03				1.99E+03	9.54E+04
0.00E+00				155-Eu	5.55E+02				5.55E+02	2.38E+04
0.00E+00				207-Tl	8.19E+00				8.19E+00	8.19E+00
0.00E+00				208-Tl	2.18E+00				2.18E+00	5.22E+00
0.00E+00				209-Pb	2.08E-01				2.08E-01	2.10E-01
0.00E+00				211-Pb	8.22E+00				8.22E+00	8.22E+00
0.00E+00				212-Pb	6.08E+00				6.08E+00	8.97E+00
0.00E+00				211-Bi	8.22E+00				8.22E+00	8.22E+00
0.00E+00				212-Bi	6.08E+00				6.08E+00	8.97E+00
0.00E+00				215-Po	2.08E-01				2.08E-01	2.10E-01
0.00E+00				212-Po	3.90E+00				3.90E+00	5.75E+00
0.00E+00				215-Po	2.03E-01				2.03E-01	2.05E-01
0.00E+00				215-Po	8.22E+00				8.22E+00	8.22E+00
0.00E+00				216-Po	6.08E+00				6.08E+00	8.97E+00
0.00E+00				217-At	2.08E-01				2.08E-01	2.10E-01
0.00E+00				219-Rn	8.22E+00				8.22E+00	8.22E+00
0.00E+00				220-Rn	6.08E+00				6.08E+00	8.97E+00
0.00E+00				221-Fr	2.08E-01				2.08E-01	2.10E-01
0.00E+00				223-Fr	1.13E-01				1.13E-01	1.13E-01
0.00E+00				223-Ra	8.22E+00				8.22E+00	8.22E+00
0.00E+00				224-Ra	6.08E+00				6.08E+00	8.97E+00
0.00E+00				225-Ra	2.08E-01				2.08E-01	2.10E-01
0.00E+00				228-Ra	1.52E+00				1.52E+00	1.52E+00
0.00E+00				225-Ac	2.08E-01				2.08E-01	2.10E-01
0.00E+00				227-Ac	8.22E+00				8.22E+00	8.22E+00
0.00E+00				228-Ac	1.52E+00				1.52E+00	1.52E+00
0.00E+00				227-Th	8.10E+00				8.10E+00	8.10E+00
0.00E+00				228-Th	6.08E+00				6.08E+00	8.97E+00
0.00E+00				229-Th	2.08E-01				2.08E-01	2.10E-01
0.00E+00				230-Th	4.38E-02				4.38E-02	5.84E-02
0.00E+00				231-Th	5.[illegible]E-03				5.17E-03	9.46E-02
0.00E+00				232-Th	1.[illegible]E+00				1.64E+00	1.64E+00
0.00E+00				234-Th	7.11E-05				7.11E-05	7.97E-01
0.00E+00				231-Pa	1.52E+01				1.52E+01	1.52E+01
0.00E+00				233-Pa	3.02E-01				3.02E-01	2.34E+01
0.00E+00				234m-Pa	7.11E-05				7.11E-05	7.97E-01
0.00E+00				232-U	2.66E+00				2.66E+00	6.92E+00
0.00E+00				233-U	2.09E+00				2.09E+00	9.03E+00
0.00E+00				234-U	2.21E-01				2.21E-01	4.19E+00
0.00E+00				235-U	5.17E-03				5.17E-03	9.46E-02
0.00E+00				236-U	9.80E-03				9.80E-03	2.77E-01
0.00E+00				238-U	7.11E-05				7.11E-05	7.97E-01
0.00E+00				236-Np	1.23E-01				1.23E-01	9.47E+00
0.00E+00				237-Np	3.02E-01				3.02E-01	2.34E+01
0.00E+00				239-Np	7.83E+00				7.83E+00	5.47E+02
0.00E+00				236-Pu	1.09E-02				1.09E-02	8.39E-01
0.00E+00				238-Pu	4.69E+02				4.69E+02	8.29E+03
0.00E+00				239-Pu	1.54E+01				1.54E+01	1.63E+03
0.00E+00				240-Pu	8.09E+00				8.09E+00	1.19E+03
0.00E+00				241-Pu	7.36E+02				7.36E+02	8.06E+04
0.00E+00				242-Pu	1.19E-02				1.19E-02	1.62E+00
0.00E+00				241-Am	2.44E+02				2.44E+02	5.34E+04
0.00E+00				242-Am	6.66E+00				6.66E+00	2.95E+02
0.00E+00				242m-Am	6.70E+00				6.70E+00	2.97E+02
0.00E+00				243-Am	7.83E+00				7.83E+00	3.47E+02
0.00E+00				242-Cm	5.53E+00				5.53E+00	2.45E+02
0.00E+00				243-Cm	2.18E-01				2.18E-01	1.34E+02
0.00E+00				244-Cm	1.22E+01				1.22E+01	7.64E+03
0.00E+00				245-Cm	2.00E-02				2.00E-02	8.82E-01
0.00E+00				246-Cm	2.29E-03				2.29E-03	1.01E-01

903,786	WEIGHT,KG	85,273	42,168	WEIGHT,KG	6,400	133,517	1,346,229
881,343	VOLUME,L	51,334	27,681	VOLUME,L	6,400	85,385	1,402,729
13,139,812	ACTIVITY,Ci	1,724,936	0.00E+00	ACTIVITY,Ci	0.00E+00	1,724,936	27,903,548
0.00E+00	ACTINIDES,Ci	1,519	0.00E+00	ACTINIDES,Ci	0.00E+00	1,519	154,480
32,628	HEAT GEN.,W	5,036	0.00E+00	HEAT GEN.,W	0.00E+00	5,036	83,141
1.03	Sp G	1.66	1.53	Sp G	1.00	1.54	1.10

TRANSFER FLUSH Ci	RECYCLE Ci	DECON SOLN RECYCLE Ci	FLUSH/COND RECYCLE Ci	CONCENTRATE RECYCLE Ci	RECYCLE Ci	WASTE RECYCLE Ci	CRFT WASTE FEED Ci	CRFT WASTE Ci	OVERHEADS Ci
	2.01E-01		9.00E+00		3=H		1.92E+00	2.32E-01	1.61E+00
	NEGLIGIBLE		NEGLIGIBLE		14=C		5.49E-01	5.49E-01	8.20E-04
	2.27E+00		7.57E-02		55=Fe		7.05E+02	7.05E+02	1.06E+00
	2.49E+00		8.31E-02		60=Ni		7.74E+02	7.74E+02	1.16E+00
	3.42E+01		1.14E-02		59=Ni		1.06E+02	1.06E+02	1.59E-01
	2.48E+01		8.27E-01		63=Ni		7.70E+03	7.70E+03	1.15E+01
	1.55E-01		3.99E-02		79=Se		3.71E+00	3.71E+00	5.54E-03
	2.17E+04		7.22E+02		90=Sr		6.72E+06	6.72E+06	1.00E+04
	2.17E+04		7.22E+02		90=Y		6.72E+06	6.72E+06	1.00E+04
	6.80E-01		2.93E-02		93=Zr		2.75E+02	2.75E+02	4.08E-01
	5.80E-01		1.96E-02		93m=Nb		1.83E+02	1.83E+02	2.73E-01
	1.01E+01		1.95E+00		99=Tc		1.21E+02	1.21E+02	1.81E-01
	1.49E+00		5.04E-02		106=Ru		1.57E+01	1.57E+01	2.34E-02
	4.57E-02		1.52E-03		106=Rh		1.42E+01	1.42E+01	2.12E-02
	3.56E-02		1.19E-03		107=Pd		1.11E+01	1.11E+01	1.65E-02
	1.96E+02		5.80E+01		113m=Cd		2.36E+03	1.75E+01	3.52E+00
	5.64E-02		1.88E-03		121m=Sn		1.75E+01	1.04E+02	2.62E-02
	3.37E-01		1.12E-02		126=Sn		1.04E+02	7.29E+03	1.56E-01
	2.35E+01		7.83E-01		125=Sb		7.29E+03	1.46E+01	1.09E+01
	4.71E-02		1.57E-03		126=Sb		1.46E+01	1.04E+02	2.19E-02
	3.37E-01		1.12E-02		126m=Sb		1.04E+02	1.87E+03	1.56E-01
	7.81E+01		1.81E+01		125=Te		1.87E+03	1.81E-01	2.80E+00
	0.00E+00		0.00E+00		79=I		1.81E-01	5.28E+03	2.70E-04
	8.80E+01		1.70E+01		134=Cs		5.28E+03	1.65E+02	7.89E+00
	2.74E+00		6.30E-01		135=Cs		1.65E+02	7.36E+06	2.46E-01
	1.23E+05	0.00E+00	2.27E+04		137=Cs		7.36E+06	6.96E+06	1.10E+04
	1.16E+05	0.00E+00	2.24E+04		137m=Ba		6.96E+06	6.50E-01	1.04E+04
	2.09E-03		6.58E-05		144=Ce		6.50E-01	6.50E-01	9.71E-04
	2.10E-03		6.99E-05		144=Pr		6.50E-01	1.09E+01	9.72E-04
	3.50E-02		1.17E-03		146=Pm		1.09E+01	8.81E+04	1.62E-02
	2.84E+02		9.46E+00		147=Pm		8.81E+04	8.46E+04	1.32E+02
	2.73E+02		9.09E+00		151=Sm		8.46E+04	3.66E+02	1.26E+02
	1.18E+00		3.93E-02		152=Eu		3.66E+02	9.57E+04	5.47E-01
	3.09E+02		1.03E+01		154=Eu		9.57E+04	2.29E+04	1.43E+02
	7.70E+01		2.57E+00		155=Eu		2.29E+04	8.22E+00	3.57E+01
	2.65E-02		8.83E-04		207=Tl		8.22E+00	3.23E+00	1.23E-02
	1.04E-02		3.47E-04		208=Tl		3.23E+00	2.10E-01	4.83E-03
	6.77E-04		2.26E-05		209=Pb		2.10E-01	8.25E+00	3.14E-04
	2.66E-02		8.86E-04		211=Pb		8.25E+00	9.00E+00	1.23E-02
	2.90E-02		9.66E-04		212=Pb		9.00E+00	8.25E+00	1.34E-02
	2.66E-02		8.86E-04		211=Bi		8.25E+00	9.00E+00	1.23E-02
	2.90E-02		9.66E-04		212=Bi		9.00E+00	2.10E-01	1.34E-02
	6.77E-04		2.26E-05		213=Bi		2.10E-01	5.77E+00	3.14E-04
	1.86E-02		6.20E-04		212=Po		5.77E+00	2.06E+01	8.62E-03
	6.62E-04		2.21E-05		213=Po		2.06E+01	8.25E+00	3.07E-04
	2.66E-02		8.86E-04		215=Po		8.25E+00	9.00E+00	1.23E-02
	2.90E-02		9.66E-04		216=Po		9.00E+00	2.10E-01	1.34E-02
	6.77E-04		2.26E-05		217=At		2.10E-01	8.25E+00	3.14E-04
	2.66E-02		8.86E-04		219=Rn		8.25E+00	9.00E+00	1.23E-02
	2.90E-02		9.66E-04		220=Rn		9.00E+00	2.10E-01	1.34E-02
	6.77E-04		2.26E-05		221=Fr		2.10E-01	1.14E-01	3.14E-04
	5.67E-04		1.22E-05		223=Fr		1.14E-01	8.25E+00	1.70E-04
	2.66E-02		8.86E-04		223=Ra		8.25E+00	9.00E+00	1.23E-02
	2.90E-02		9.66E-04		224=Ra		9.00E+00	2.10E-01	1.34E-02
	6.77E-04		2.26E-05		225=Ra		2.10E-01	1.53E+00	3.14E-04
	4.92E-03		1.64E-04		228=Ra		1.53E+00	2.10E-01	2.28E-03
	6.77E-04		2.26E-05		225=Ac		2.10E-01	8.25E+00	3.14E-04
	2.66E-02		8.86E-04		227=Ac		8.25E+00	1.53E+00	1.23E-02
	4.92E-03		1.64E-04		227=Th		1.53E+00	8.13E+00	2.28E-02
	2.42E-02		8.73E-04		228=Th		8.13E+00	9.00E+00	1.22E-02
	2.90E-02		9.66E-04		229=Th		9.00E+00	2.10E-01	1.34E-02
	6.77E-04		2.26E-05		230=Th		2.10E-01	5.86E-02	3.14E-04
	1.89E-04		6.29E-06		231=Th		5.86E-02	9.49E-02	8.76E-05
	3.06E-04		1.02E-05		232=Th		9.49E-02	1.65E+00	1.42E-04
	5.30E-03		1.77E-04		234=Th		1.65E+00	8.00E-01	2.46E-03
	2.58E-03		8.59E-05		231=Pa		8.00E-01	1.53E+01	1.20E-03
	4.91E-02		1.64E-03		233=Pa		1.53E+01	2.34E+01	2.28E-02
	7.55E-02		2.52E-03		234m=Pa		2.34E+01	8.00E-01	3.50E-02
	2.58E-03		8.59E-05		232=U		8.00E-01	6.95E+00	1.20E-03
	2.24E-02		7.46E-04		233=U		6.95E+00	9.06E+00	1.04E-02
	2.92E-02		9.73E-04		234=U		9.06E+00	4.20E+00	1.35E-02
	1.35E-02		4.51E-04		235=U		4.20E+00	9.49E-02	6.28E-03
	3.06E-04		1.02E-05		236=U		9.49E-02	2.78E-01	1.42E-04
	8.95E-04		2.98E-05		238=U		2.78E-01	8.00E-01	4.15E-04
	2.58E-03		8.59E-05		236=Np		8.00E-01	9.50E+00	1.20E-03
	3.06E-02		1.02E-03		237=Np		9.50E+00	2.34E+01	1.42E-02
	7.55E-02		2.52E-03		239=Np		2.34E+01	3.48E+02	3.50E-02
	1.12E+00		3.74E-02		236=Pu		3.48E+02	8.42E-01	5.20E-01
	2.71E-03		9.04E-05		238=Pu		8.42E-01	8.32E+03	1.26E-03
	2.68E+01		8.93E-01		239=Pu		8.32E+03	1.63E+03	1.24E+01
	5.25E+00		1.75E-01		240=Pu		1.63E+03	1.19E+03	2.44E+00
	5.85E+00		1.20E-01		241=Pu		1.19E+03	8.09E+04	1.78E+00
	2.61E+02		8.69E+00		242=Pu		8.09E+04	1.63E+00	1.21E+02
	5.24E-03		1.75E-04		241=Am		1.63E+00	5.36E+04	2.43E-03
	1.73E+02		5.75E+00		242=Am		5.36E+04	2.98E+02	8.01E+01
	9.54E-01		3.18E-02		242m=Am		2.98E+02	2.48E+02	4.43E-01
	9.59E-01		3.20E-02		243=Am		2.48E+02	2.46E+02	4.45E-01
	1.12E+00		3.74E-02		242=Cm		2.46E+02	1.25E+02	5.20E-01
	7.92E-01		2.64E-02		243=Cm		1.25E+02	7.67E+03	3.67E-01
	4.33E-01		1.44E-02		244=Cm		7.67E+03	8.85E-01	2.01E-01
	2.47E+01		8.24E-01		245=Cm		8.85E-01	1.01E-01	1.15E+01
	2.85E-03		9.50E-05		246=Cm		1.01E-01		1.32E-03
	3.24E-04		1.09E-05						1.51E-04

13,029	570,138	0.00E+00	5,393	0.00E+00	WEIGHT,KG	2,134,790	469,956	1,665,074
13,029	564,954	0.00E+00	5,292	0.00E+00	VOLUME,L	1,988,005	240,163	1,664,731
0.00E+00	293,812	0.00E+00	47,699	In Matl. Bal.	ACTIVITY,Ci	28,235,459	28,235,458	42,193
0.00E+00	499	0.00E+00	16.68	In Matl. Bal.	ACTINIDES,Ci	154,996	154,996	231.60
0.00E+00	NEGLIGIBLE	0.00E+00	NEGLIGIBLE	Negligible	HEAT GEN.,W	83,141	83,141	124.23
1.00	1.01	0.00	1.03	0.00E+00	Sp.G	1.07	1.96	1.00

GLASS FORMERS	MAKE-UP MELTER FEED	MELTER FEED	AIR INLEAKAGE TO SFCM	GLASS PRODUCTION	FILLED GLASS CANISTERS	OFF GAS	AIR	CONTROL AIR
Ci	Ci	Ci	Ci	Ci	Ci	Ci	Ci	Ci
3-H	2.32E-01	2.32E-01		0.00	0.00	2.32E-01		
14-C	5.49E-01	5.49E-01		0.00	0.00	5.49E-01		
55-Fe	7.05E+02	7.05E+02		702.46	2.78	2.35E+00		
60-Co	7.74E+02	7.74E+02		771.49	3.03	2.58E+00		
59-Ni	1.06E+02	1.06E+02		105.90	0.42	3.54E-01		
63-Ni	7.70E+03	7.70E+03		7,677.19	30.18	2.57E+01		
79-Se	5.71E+00	5.71E+00		5.52	0.01	1.85E-01		
90-Sr	6.72E+06	6.72E+06		6,698,395.45	26,330.25	2.24E+04		
90-Y	6.72E+06	6.72E+06		6,700,172.78	26,337.24	2.24E+04		
93-Zr	2.75E+02	2.75E+02		272.20	1.07	9.10E-01		
93m-Nb	1.83E+02	1.83E+02		181.99	0.72	6.09E-01		
99-Tc	1.21E+02	1.21E+02		108.83	0.43	1.21E+01		
106-Ru	1.57E+01	1.57E+01		14.09	0.06	1.57E+00		
106-Rh	1.42E+01	1.42E+01		14.12	0.06	4.72E-02		
107-Pd	1.11E+01	1.11E+01		11.01	0.04	3.68E-02		
113m-Cd	2.36E+03	2.36E+03		2,121.22	8.34	2.36E+02		
121m-Sn	1.75E+01	1.75E+01		17.46	0.07	5.84E-02		
126-Sn	1.04E+02	1.04E+02		104.11	0.41	3.48E-01		
125-Sb	7.29E+03	7.29E+03		7,264.26	28.55	2.43E+01		
126-Sb	1.46E+01	1.46E+01		14.58	0.06	4.87E-02		
126m-Sb	1.04E+02	1.04E+02		104.11	0.41	3.48E-01		
125m-Te	1.87E+03	1.87E+03		1,779.98	7.00	9.37E+01		
129-I	1.81E-01	1.81E-01		0.00	0.00	1.81E-01		
134-Cs	5.28E+03	5.28E+03		5,172.88	20.33	1.06E+02		
135-Cs	1.65E+02	1.65E+02		161.30	0.63	3.29E+00		
137-Cs	7.36E+06	7.36E+06		7,209,988.70	28,341.24	1.47E+05		
137m-Ba	6.96E+06	6.96E+06		6,820,745.89	26,811.19	1.39E+05		
144-Ce	6.50E-01	6.50E-01		0.45	0.00	2.17E-03		
144-Pr	6.50E-01	6.50E-01		0.65	0.00	2.17E-03		
146-Pm	1.09E+01	1.09E+01		10.83	0.04	5.42E-02		
147-Pm	8.81E+04	8.81E+04		87,773.40	345.02	2.94E+02		
151-Sm	8.46E+04	8.46E+04		84,309.07	331.40	2.82E+02		
152-Eu	3.66E+02	3.66E+02		364.91	1.43	1.22E+00		
154-Eu	9.57E+04	9.57E+04		95,427.31	375.11	3.19E+02		
155-Eu	2.39E+04	2.39E+04		23,832.08	93.68	7.97E+01		
207-Tl	8.22E+00	8.22E+00		8.19	0.03	2.74E-02		
208-Tl	3.23E+00	3.23E+00		3.22	0.01	1.08E-02		
209-Pb	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
211-Pb	8.25E+00	8.25E+00		8.22	0.03	2.75E-02		
212-Pb	9.00E+00	9.00E+00		8.97	0.04	3.00E-02		
211-Bi	8.25E+00	8.25E+00		8.22	0.03	2.75E-02		
212-Bi	9.00E+00	9.00E+00		8.97	0.04	3.00E-02		
213-Bi	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
212-Po	5.77E+00	5.77E+00		5.75	0.02	1.92E-02		
213-Po	2.06E-01	2.06E-01		0.20	0.00	6.85E-04		
215-Po	8.25E+00	8.25E+00		8.22	0.03	2.75E-02		
216-Po	9.00E+00	9.00E+00		8.97	0.04	3.00E-02		
217-At	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
219-Rn	8.25E+00	8.25E+00		8.22	0.03	2.75E-02		
220-Rn	9.00E+00	9.00E+00		8.97	0.04	3.00E-02		
221-Fr	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
223-Fr	1.14E-01	1.14E-01		0.11	0.00	3.79E-04		
223-Ra	8.25E+00	8.25E+00		8.22	0.03	2.75E-02		
224-Ra	9.00E+00	9.00E+00		8.97	0.04	3.00E-02		
225-Ra	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
228-Ra	1.53E+00	1.53E+00		1.52	0.01	5.09E-03		
225-Ac	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
227-Ac	8.25E+00	8.25E+00		8.22	0.03	2.75E-02		
228-Ac	1.53E+00	1.53E+00		1.52	0.01	5.09E-03		
227-Th	8.13E+00	8.13E+00		8.10	0.03	2.71E-02		
228-Th	9.00E+00	9.00E+00		8.97	0.04	3.00E-02		
229-Th	2.10E-01	2.10E-01		0.21	0.00	7.01E-04		
230-Th	5.86E-02	5.86E-02		0.06	0.00	1.95E-04		
231-Th	9.49E-02	9.49E-02		0.09	0.00	3.16E-04		
232-Th	1.65E+00	1.65E+00		1.64	0.01	5.48E-03		
234-Th	8.00E-01	8.00E-01		0.80	0.00	2.67E-03		
231-Pa	1.53E+01	1.53E+01		15.20	0.06	5.08E-02		
233-Pa	2.34E+01	2.34E+01		23.25	0.09	7.81E-02		
234m-Pa	8.00E-01	8.00E-01		0.80	0.00	2.67E-03		
232-U	6.95E+00	6.95E+00		6.92	0.03	2.32E-02		
233-U	9.06E+00	9.06E+00		9.03	0.04	3.02E-02		
234-U	4.20E+00	4.20E+00		4.19	0.02	1.40E-02		
235-U	9.49E-02	9.49E-02		0.09	0.00	3.16E-04		
236-U	2.78E-01	2.78E-01		0.28	0.00	9.26E-04		
238-U	8.00E-01	8.00E-01		0.80	0.00	2.67E-03		
236-Np	9.50E+00	9.50E+00		9.47	0.04	3.17E-02		
237-Np	2.34E+01	2.34E+01		23.25	0.09	7.81E-02		
239-Np	3.48E+02	3.48E+02		346.73	1.36	1.16E+00		
236-Pu	8.42E-01	8.42E-01		0.84	0.00	2.81E-03		
238-Pu	8.32E+03	8.32E+03		8,287.68	32.58	2.77E+01		
239-Pu	1.63E+03	1.63E+03		1,625.37	6.39	5.44E+00		
240-Pu	1.13E+03	1.13E+03		1,190.34	4.68	3.98E+00		
241-Pu	8.09E+04	8.09E+04		80,630.89	316.95	2.70E+02		
242-Pu	1.63E+00	1.63E+00		1.62	0.01	5.43E-03		
241-Am	5.36E+04	5.36E+04		53,401.61	209.91	1.79E+02		
242-Am	2.96E+02	2.96E+02		295.22	1.16	9.87E-01		
242m-Am	2.98E+02	2.98E+02		296.70	1.17	9.92E-01		
243-Am	3.48E+02	3.48E+02		346.73	1.36	1.16E+00		
242-Cm	2.46E+02	2.45E+02		244.91	0.96	8.19E-01		
243-Cm	1.35E+02	1.35E+02		134.08	0.53	4.48E-01		
244-Cm	7.67E+03	7.67E+03		7,643.16	30.04	2.56E+01		
245-Cm	8.85E-01	8.85E-01		0.88	0.00	2.95E-03		
246-Cm	1.01E-01	1.01E-01		0.10	0.00	3.38E-04		
			Totals	27,902,300.54	109,679.19			

986,180	1,439,235	1,535,473	1,183,237	483,358.81	1,900.00	2,234,219	3,313,064	1,064,913
689,636	962,372	1,058,609	1,028,548,919	201,399.38	701.11	5,502,708,853	2,925,622,347	540,378,611
0.00E+00	28,235,458	28,235,458	0.00E+00	27,902,300.54	109,679.19	333,156	0.00E+00	0.00E+00
0.00E+00	154,996	154,996	0.00E+00	154,479.71	607.23	917	0.00E+00	0.00E+00
0.00E+00	83,141	83,141	0.00E+00	83,137.31	326.80	0	0.00E+00	0.00E+00
1.43	1.50	1.46	1.15E-03	2.40	2.71	4.06E-04	1.13E-03	1.13E-03

SBS	ADD	SPARGE		GAS	MUD	ADD		REMEMBLE OFF GAS
Ci	Ci	Ci	Ci	Ci	Ci	Ci	Ci	Ci
2.32E-01			3.08E-02		3.08E-02		3.08E-02	3.08E-02
5.49E-01			5.49E-01		5.49E-01		5.49E-01	5.49E-01
2.35E+00			7.83E-02		7.83E-02		2.61E-03	2.61E-03
2.58E+00			6.60E-02		8.60E-02		2.87E-03	2.87E-03
3.54E-01			1.18E-02		1.18E-02		3.94E-04	3.94E-04
2.57E+01			8.56E-01		8.56E-01		2.85E-02	2.85E-02
1.85E+01			3.09E-02		3.09E-02		1.03E-03	1.03E-03
2.24E+04			7.47E+02		7.47E+02		2.49E+01	2.49E+01
2.24E+04			7.47E+02		7.47E+02		2.49E+01	2.49E+01
9.10E-01			3.03E-02		3.03E-02		1.01E-03	1.01E-03
6.09E-01			2.03E-02		2.03E-02		6.76E-04	6.76E-04
1.21E+01			2.02E+00		2.02E+00		6.72E-02	6.72E-02
1.57E+00			5.22E-02		5.22E-02		1.74E-03	1.74E-03
4.72E-02			1.57E-03		1.57E-03		5.25E-05	5.25E-05
3.68E-02			1.23E-03		1.23E-03		4.09E-05	4.09E-05
2.36E+02			3.93E+01		3.93E+01		1.31E+00	1.31E+00
5.84E-02			1.95E-03		1.95E-03		6.49E-05	6.49E-05
3.48E-01			1.16E-02		1.16E-02		3.87E-04	3.87E-04
2.43E+01			8.10E-01		8.10E-01		2.70E-02	2.70E-02
4.87E-02			1.62E-03		1.62E-03		5.42E-05	5.42E-05
3.48E-01			1.16E-02		1.16E-02		3.87E-04	3.87E-04
9.37E+01			1.56E+01		1.56E+01		5.20E-01	5.20E-01
1.81E-01			1.81E-01		1.81E-01		1.81E-01	1.81E-01
1.06E+02			1.76E+01		1.76E+01		5.86E-01	5.86E-01
5.29E+00			5.49E-01		5.49E-01		1.83E-02	1.83E-02
1.47E+05			2.45E+04		2.45E+04		8.17E+02	8.17E+02
1.39E+05			2.32E+04		2.32E+04		7.73E+02	7.73E+02
2.17E-03			7.22E-05		7.22E-05		2.41E-06	2.41E-06
2.17E-03			7.23E-05		7.23E-05		2.41E-06	2.41E-06
3.62E-02			1.21E-03		1.21E-03		4.02E-05	4.02E-05
2.94E+03			9.79E+00		9.79E+00		3.26E-01	3.26E-01
2.82E+02			9.40E+00		9.40E+00		3.13E-01	3.13E-01
1.22E+00			4.07E-02		4.07E-02		1.36E-03	1.36E-03
3.19E+02			1.06E+01		1.06E+01		3.55E-01	3.55E-01
7.97E+01			2.66E+00		2.66E+00		8.86E-02	8.86E-02
2.74E-02			9.14E-04		9.14E-04		3.05E-05	3.05E-05
1.08E-02			3.59E-04		3.59E-04		1.20E-05	1.20E-05
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
2.75E-02			9.16E-04		9.16E-04		3.05E-05	3.05E-05
3.00E-02			1.00E-03		1.00E-03		3.33E-05	3.33E-05
2.75E-02			9.16E-04		9.16E-04		3.05E-05	3.05E-05
3.00E-02			1.00E-03		1.00E-03		3.33E-05	3.33E-05
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
1.92E-02			6.41E-04		6.41E-04		2.14E-05	2.14E-05
6.85E-04			2.28E-05		2.28E-05		7.61E-07	7.61E-07
2.75E-02			9.16E-04		9.16E-04		3.05E-05	3.05E-05
3.00E-02			1.00E-03		1.00E-03		3.33E-05	3.33E-05
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
2.75E-02			9.16E-04		9.16E-04		3.05E-05	3.05E-05
3.00E-02			1.00E-03		1.00E-03		3.33E-05	3.33E-05
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
3.79E-04			1.26E-05		1.26E-05		4.22E-07	4.22E-07
2.75E-02			9.16E-04		9.16E-04		3.05E-05	3.05E-05
3.00E-02			1.00E-03		1.00E-03		3.33E-05	3.33E-05
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
5.09E-03			1.70E-04		1.70E-04		5.66E-06	5.66E-06
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
2.75E-02			9.16E-04		9.16E-04		3.05E-05	3.05E-05
5.09E-03			1.70E-04		1.70E-04		5.66E-06	5.66E-06
2.71E-02			9.03E-04		9.03E-04		3.01E-05	3.01E-05
3.00E-02			1.00E-03		1.00E-03		3.33E-05	3.33E-05
7.01E-04			2.34E-05		2.34E-05		7.79E-07	7.79E-07
1.95E-04			6.51E-06		6.51E-06		2.17E-07	2.17E-07
3.16E-04			1.05E-05		1.05E-05		3.52E-07	3.52E-07
5.48E-03			1.83E-04		1.83E-04		6.09E-06	6.09E-06
2.67E-03			8.89E-05		8.89E-05		2.96E-06	2.96E-06
5.00E-02			1.69E-03		1.69E-03		5.65E-05	5.65E-05
7.81E-02			2.60E-03		2.60E-03		8.68E-05	8.68E-05
2.67E-03			8.89E-05		8.89E-05		2.96E-06	2.96E-06
2.32E-02			7.72E-04		7.72E-04		2.57E-05	2.57E-05
3.02E-02			1.01E-03		1.01E-03		3.36E-05	3.36E-05
1.40E-02			4.67E-04		4.67E-04		1.56E-05	1.56E-05
3.16E-04			1.05E-05		1.05E-05		3.52E-07	3.52E-07
9.26E-04			3.09E-05		3.09E-05		1.03E-06	1.03E-06
2.67E-03			8.89E-05		8.89E-05		2.96E-06	2.96E-06
3.17E-02			1.06E-03		1.06E-03		3.52E-05	3.52E-05
7.81E-02			2.60E-03		2.60E-03		8.68E-05	8.68E-05
1.14E+00			3.87E-02		3.87E-02		1.29E-03	1.29E-03
2.81E-03			9.36E-05		9.36E-05		3.12E-06	3.12E-06
2.77E+01			9.24E-01		9.24E-01		3.08E-02	3.08E-02
5.44E+00			1.81E-01		1.81E-01		6.04E-03	6.04E-03
3.98E+00			1.33E-01		1.33E-01		4.42E-03	4.42E-03
2.70E+02			8.99E+00		8.99E+00		3.00E-01	3.00E-01
5.43E-03			1.81E-04		1.81E-04		6.03E-06	6.03E-06
1.79E+02			5.95E+00		5.95E+00		1.98E-01	1.98E-01
9.87E-01			3.29E-02		3.29E-02		1.10E-03	1.10E-03
9.92E-01			3.31E-02		3.31E-02		1.10E-03	1.10E-03
1.16E+00			3.87E-02		3.87E-02		1.29E-03	1.29E-03
8.19E-01			2.73E-02		2.73E-02		9.10E-04	9.10E-04
4.48E-01			1.49E-02		1.49E-02		4.98E-04	4.98E-04
2.56E+01			8.52E-01		8.52E-01		2.84E-02	2.84E-02
2.95E-03			9.83E-05		9.83E-05		3.28E-06	3.28E-06
3.38E-04			1.13E-05		1.13E-05		3.75E-07	3.75E-07

8,612,196		59,162	6,133,290	2,387,334	WEIGHT,KG	8,520,624	4,992	8,520,522	8,520,522
10,287,769,935		58,990,100	6,388,767,554	2,292,495,482	VOLUME,L	8,676,203,153	4,992	6,757,192,564	10,214,192,390
333,156		0.00E+00	49,344.9	0.00E+00	ACTIVITY,Ci	49,344.9	0.00E+00	1,646	1,646
517		0.00E+00	17.2	0.00E+00	ACTINIDES,Ci	17.2	0.00E+00	5.74E-01	5.74E-01
0		0.00E+00	NEGLIGIBLE	0.00E+00	HEAT GEN.,W	NEGLIGIBLE	0.00E+00	NEGLIGIBLE	NEGLIGIBLE
6.43E-04		1.00E-03	9.60E-04	9.98E-04	Sp6	9.82E-04	1.00E+00	9.73E-04	8.34E-04

HEPA FILTER OFF GAS	HEATER OFF GAS	
Ci	Ci	
3.08E-02	3.08E-02	3-H
5.49E-01	5.49E-01	14-C
2.61E-09	2.61E-09	55-Fe
2.87E-09	2.87E-09	60-Co
3.94E-10	3.94E-10	59-Ni
2.85E-08	2.85E-08	63-Ni
1.03E-09	1.03E-09	79-Se
2.49E-05	2.49E-05	90-Sr
2.49E-05	2.49E-05	90-Y
1.01E-09	1.01E-09	93-Zr
6.76E-10	6.76E-10	93m-Nb
6.72E-08	6.72E-08	99-Tc
1.74E-09	1.74E-09	106-Ru
5.25E-11	5.25E-11	106-Rh
4.09E-11	4.09E-11	107-Pd
1.31E-06	1.31E-06	113m-Cd
6.49E-11	6.49E-11	121m-Sn
3.87E-10	3.87E-10	126-Sn
2.70E-08	2.70E-08	125-Sb
5.42E-11	5.42E-11	126-Sb
3.87E-10	3.87E-10	126m-Sb
5.20E-07	5.20E-07	125m-Te
1.81E-01	1.81E-01	129-I
5.86E-07	5.86E-07	134-Cs
1.83E-08	1.83E-08	135-Cs
8.17E-04	8.17E-04	137-Cs
7.73E-04	7.73E-04	137m-Ba
2.41E-12	2.41E-12	144-Ce
2.41E-12	2.41E-12	144-Pr
4.02E-11	4.02E-11	146-Pm
3.26E-07	3.26E-07	147-Pm
3.13E-07	3.13E-07	151-Sm
1.36E-09	1.36E-09	152-Eu
3.55E-07	3.55E-07	154-Eu
8.86E-08	8.86E-08	155-Eu
3.05E-11	3.05E-11	207-Tl
1.20E-11	1.20E-11	208-Tl
7.79E-13	7.79E-13	209-Pb
3.05E-11	3.05E-11	211-Pb
3.33E-11	3.33E-11	212-Pb
3.05E-11	3.05E-11	211-Bi
3.33E-11	3.33E-11	212-Bi
7.79E-13	7.79E-13	213-Bi
2.14E-11	2.14E-11	212-Po
7.61E-13	7.61E-13	213-Po
3.05E-11	3.05E-11	215-Po
3.33E-11	3.33E-11	216-Po
7.79E-13	7.79E-13	217-At
3.05E-11	3.05E-11	219-Rn
3.33E-11	3.33E-11	220-Rn
7.79E-13	7.79E-13	221-Fr
4.22E-13	4.22E-13	223-Fr
3.05E-11	3.05E-11	223-Ra
3.33E-11	3.33E-11	224-Ra
7.79E-13	7.79E-13	225-Ra
5.66E-12	5.66E-12	226-Ra
7.79E-13	7.79E-13	225-Ac
3.05E-11	3.05E-11	227-Ac
5.66E-12	5.66E-12	228-Ac
3.01E-11	3.01E-11	227-Th
3.33E-11	3.33E-11	228-Th
7.79E-13	7.79E-13	229-Th
2.17E-13	2.17E-13	230-Th
3.52E-13	3.52E-13	231-Th
6.09E-12	6.09E-12	232-Th
2.96E-12	2.96E-12	234-Th
5.65E-11	5.65E-11	231-Pa
6.68E-11	6.68E-11	233-Pa
2.96E-12	2.96E-12	234m-Pa
2.57E-11	2.57E-11	232-U
3.36E-11	3.36E-11	233-U
1.56E-11	1.56E-11	234-U
3.52E-13	3.52E-13	235-U
1.03E-12	1.03E-12	236-U
2.96E-12	2.96E-12	238-U
3.52E-11	3.52E-11	236-Np
8.68E-11	8.68E-11	237-Np
1.29E-09	1.29E-09	239-Np
3.12E-12	3.12E-12	236-Pu
3.09E-08	3.09E-08	238-Pu
6.04E-09	6.04E-09	239-Pu
4.42E-09	4.42E-09	240-Pu
3.00E-07	3.00E-07	241-Pu
6.03E-12	6.03E-12	242-Pu
1.98E-07	1.98E-07	241-Am
1.10E-09	1.10E-09	242-Am
1.10E-09	1.10E-09	242m-Am
1.29E-09	1.29E-09	243-Am
9.10E-10	9.10E-10	242-Cm
4.99E-10	4.99E-10	243-Cm
2.84E-08	2.84E-08	244-Cm
3.28E-12	3.28E-12	245-Cm
3.75E-13	3.75E-13	246-Cm

TOTALS		
8,520,519	8,520,519	WEIGHT,KG
9,971,433,984	10,866,313,216	VOLUME,L
0.762	0.762	ACTIVITY,Ci
5.74E-07	5.74E-07	ACTINIDES,Ci
NEGLIGIBLE	NEGLIGIBLE	HEAT GEN.,W
8.54E-04	7.95E-04	SpG

STREAM NUMBER			1	2	3	4	5	6	7
STREAM NAME			THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE	PUREX WASTE	601 CONDENSATE
COMPONENT	MOLECULAR WEIGHT	OXIDE EQUIVALENT	kg	kg	kg	kg	kg	kg	kg
Ag	107.87	1.0743	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AgNO3	169.89	0.6821	8.46E-02	0.00E+00	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag2O	231.76	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-01	0.00E+00	0.00E+00
AgOH	124.88	0.9279	0.00E+00	0.00E+00	0.00E+00	1.62E+02	1.13E+03	1.29E+03	0.00E+00
AlF3	83.98	2.1070	0.00E+00	0.00E+00	9.99E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Al(NO3)3	213.00	0.2393	9.99E+02	0.00E+00	0.00E+00	0.00E+00	3.82E+03	3.82E+03	0.00E+00
Al2O3	101.96	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Al(OH)3	78.00	0.6536	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am(OH)3	294.00	0.9087	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+01	2.70E+01	0.00E+00
Am(NO3)3	429.00	0.6227	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am2O3	534.30	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B2O3	69.62	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba(NO3)2	261.35	0.5866	1.58E+01	0.00E+00	1.58E+01	0.00E+00	3.03E+02	3.03E+02	0.00E+00
BaO	153.32	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaSO4	233.40	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C	12.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E+03	1.80E+03	0.00E+00
(CH2)10	140.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaCO3	100.09	0.5603	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaC2O4	128.12	0.4377	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaF2	78.08	1.7938	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca(NO3)2	164.09	0.3418	1.03E+01	0.00E+00	1.03E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaO	56.08	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca(OH)2	74.09	0.7569	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca3(PO4)2	310.18	1.0002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaSO4	136.14	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cd(NO3)2	236.41	0.5431	1.43E+01	0.00E+00	1.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CdO	128.40	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-01	9.23E-01	0.00E+00
Cd(OH)2	146.11	0.8031	2.16E+01	0.00E+00	2.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce(NO3)3	326.23	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E+02	3.04E+02	0.00E+00
Ce2O3	328.24	0.8586	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce(OH)3	191.14	0.6259	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-01	4.00E-01	0.00E+00
Cm(NO3)3	433.00	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm2O3	542.00	0.9094	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm(OH)3	290.00	1.2715	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co	58.93	0.4094	1.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co(NO3)2	183.04	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CoO	74.93	0.8061	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co(OH)2	92.95	0.3192	6.12E+02	0.00E+00	6.12E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr(NO3)3	238.15	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr2O3	152.02	0.7602	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CrO3	99.99	0.7578	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E+01	4.80E+01	0.00E+00
Cr(OH)3	103.02	0.7229	2.02E+01	0.00E+00	2.02E+01	0.00E+00	3.86E+02	3.86E+02	0.00E+00
CsNO3	194.91	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CsCl(SV)	168.36	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs2O	281.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
spare	281.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu	63.55	1.2516	3.39E-01	0.00E+00	3.39E-01	2.54E+00	0.00E+00	2.54E+00	0.00E+00
Cu(NO3)2	187.60	0.4240	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CuO	79.54	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E+02	3.07E+02	0.00E+00
Cu(OH)2	97.55	0.8154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CuSO4	159.61	0.4983	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy(NO3)3	340.50	0.5350	1.07E-03	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy2O3	375.00	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy(OH)3	213.52	0.8735	5.20E-01	0.00E+00	5.20E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eu(NO3)3	338.07	0.5205	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eu2O3	351.92	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E+00	7.06E+00	0.00E+00
Eu(OH)3	202.96	0.9413	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe	55.85	1.4296	2.79E+03	0.00E+00	2.79E+03	1.42E+01	0.00E+00	1.42E+01	0.00E+00
Fe(NO3)3	242.02	0.3299	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E+04	4.93E+04	0.00E+00
FeO	71.85	1.1113	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe(OH)3	106.86	0.7472	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E+03	6.35E+03	0.00E+00
Fe2O3	159.69	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FePO4	150.85	0.9999	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ga(NO3)3	343.36	0.5279	2.11E-01	0.00E+00	2.11E-01	0.00E+00	1.48E+00	1.48E+00	0.00E+00
Ga2O3	362.50	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ga(OH)3	208.27	0.8703	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ge(NO3)4	320.59	0.1948	3.90E-03	0.00E+00	3.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GeO2	104.59	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ge(OH)4	140.59	0.7459	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H3BO3	61.83	0.5630	2.70E+02	0.00E+00	2.70E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2CO3	62.03	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2C2O4	90.00	1.6031	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HCl	36.46	1.6031	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HF	20.01	2.0985	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HNO3	63.02	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2SO4	98.07	1.4486	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg	200.59	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg2Cl2	472.09	1.0974	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg2I2	654.99	0.6125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg(NO3)2	324.63	0.6179	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HgO	216.61	0.9260	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E+01	1.97E+01	0.00E+00
Hg(OH)2	234.59	0.8551	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
In(NO3)3	300.88	0.4614	1.85E-02	0.00E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
In2O3	277.64	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-01	2.51E-01	0.00E+00
In(OH)3	165.84	0.8371	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
K2CrO4	194.20	0.8765	4.66E+01	0.00E+00	4.66E+01	4.48E+03	0.00E+00	4.48E+03	0.00E+00
KMnO4	197.12	0.6800	8.90E+01	0.00E+00	8.90E+01	1.69E+04	0.00E+00	1.69E+04	0.00E+00
KNO3	101.10	0.4659	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
K2O	94.20	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KOH	56.11	0.8394	1.10E+01	0.00E+00	1.10E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La(NO3)3	325.02	0.5012	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+02	1.59E+02	0.00E+00
La2O3	325.82	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La(OH)3	189.93	0.8577	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E+00	3.03E+00	0.00E+00
LiOH	23.95	0.4238	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LiNO3	68.94	0.2167	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E+02	3.95E+02	0.00E+00
Li2O	29.88	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-01	5.43E-01	0.00E+00
MgCO3	84.32	0.4782	1.55E+01	0.00E+00	1.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mg(NO3)2	148.41	0.2717	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MgO	40.32	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mg(OH)2	58.33	0.6912	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mn(NO3)2	179.05	0.4172	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E+03	3.74E+03	0.00E+00
MnO	70.94	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MnO2	86.94	0.8160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mn(OH)2	88.95	0.7575	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E+02	5.97E+02	0.00E+00
MoO3	143.95	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2B8O5	127.78	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Li3PO4	115.80	1.0001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2B4O7	201.27	0.9998	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2C2O4	134.01	0.4825	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E+04	1.48E+04	0.00E+00
Na2CO3	106.00	0.5847	5.00E+01	0.00E+00	5.00E+01	4.68E+03	0.00E+00	4.68E+03	0.00E+00
NaCl	58.45	1.0000	5.00E+01	0.00E+00	5.00E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
spare	58.45	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2CrO4	161.97	0.8619	1.00E+00	0.00E+00	1.00E+00	0.00E+00	5.03E+02	5.03E+02	0.00E+00
NaF	41.99	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaH2PO4	120.00	0.8499	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+04	1.57E+04	0.00E+00
NaHCO3	84.01	0.3689	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaI	149.92	0.2067	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaNO3	98.00	0.7244	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na3PO4	205.95	0.9999	5.40E+01	0.00E+00	5.40E+01	6.51E+02	0.00E+00	6.51E+02	0.00E+00
Na2MoO4	89.00	0.4491	0.00E+00	0.00E+00	0.00E+00	1.40E+05	0.00E+00	1.40E+05	0.00E+00
NaNO2	85.01	0.3645	8.28E+01	0.00E+00	8.28E+01	2.20E+05	0.00E+00	2.20E+05	0.00E+00
NaNO3	84.99	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2O	61.98	0.7746	0.00E+00	0.00E+00	0.00E+00	1.36E+04	0.00E+00	1.36E+04	0.00E+00
NaOH	40.01	1.0002	1.20E+01	0.00E+00	1.20E+01	3.80E+03	0.00E+00	3.80E+03	0.00E+00
Na3PO4	163.94	0.8650	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2PuO2(OH)4	305.00	0.9247	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2RhO4	212.91	0.9241	0.00E+00	0.00E+00	0.00E+00	7.63E+04	0.00E+00	7.63E+04	0.00E+00
Na2RuO4	211.07	1.0000	1.80E+02	0.00E+00	1.80E+02	1.37E+01	0.00E+00	1.37E+01	0.00E+00
Na2SO4	142.06	0.5152	9.15E-01	0.00E+00	9.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2SeO4	188.96	0.9998	1.26E+02	0.00E+00	1.26E+02	1.77E+02	0.00E+00	1.77E+02	0.00E+00
Na2SiO3	122.08	0.9994	1.10E+01	0.00E+00	1.10E+01	7.65E+01	0.00E+00	7.65E+01	0.00E+00
NaTcO4	186.00	0.9337	4.66E+00	0.00E+00	4.66E+00	2.19E+02	0.00E+00	2.19E+02	0.00E+00
Na2TeO4	237.58	0.9497	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2U2O7	634.00	0.8093	3.72E+01	0.00E+00	3.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd(NO3)3	330.36	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd2O3	336.48	0.7182	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd(OH)3	234.26	1.3725	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni	58.71	0.4087	3.23E+02	0.00E+00	3.23E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni(NO3)2	182.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NiO	74.71								

HgO2	249.05	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg(OH)4	301.00	0.8959	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P2O5	141.99	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pa(NO3)4	279.04	0.9427	6.60E-01	0.00E+00	6.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PaO2	263.04	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pa(OH)4	299.04	0.8796	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd	106.40	1.1804	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd(NO3)2	230.42	0.8312	4.25E+00	0.00E+00	4.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PdO	122.40	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd(OH)2	140.40	0.8718	0.00E+00	0.00E+00	0.00E+00	1.00E+00	2.96E+01	2.96E+01	0.00E+00
Pm(NO3)3	333.00	0.8132	8.13E-03	0.00E+00	8.13E-03	1.00E+00	0.00E+00	0.00E+00	0.00E+00
Pm2O3	341.80	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pm(OH)3	197.90	0.8636	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	1.30E+00	0.00E+00
Pr(NO3)3	326.91	0.8044	1.06E+01	0.00E+00	1.06E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr2O3	329.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr(OH)3	191.93	0.8592	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E+02	1.46E+02	0.00E+00
Pu(NO3)4	486.16	0.5552	3.89E-01	0.00E+00	3.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PuO2	271.05	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+01	3.70E+01	0.00E+00
RbNO3	147.47	0.6356	5.80E+00	0.00E+00	5.80E+00	7.54E+01	0.00E+00	7.54E+01	0.00E+00
Rb2O	186.94	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh	102.91	1.3109	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh(NO3)4	350.91	0.3844	4.23E+00	0.00E+00	4.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RhO2	134.90	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh(OH)4	170.91	0.7893	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E+01	6.24E+01	0.00E+00
Ru	101.07	1.3166	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru(NO3)4	349.07	0.3812	1.60E+01	0.00E+00	1.60E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RuO2	133.07	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
spare	168.07	0.8061	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru(OH)4	169.07	0.7871	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+02	3.60E+02	0.00E+00
SO3	80.07	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb(NO3)3	307.75	0.3481	3.48E-02	0.00E+00	3.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb2O3	291.50	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb(OH)3	172.75	0.8437	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-01	5.91E-01	0.00E+00
SeO2	110.96	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Si(NO3)4	276.10	0.2176	0.00E+00	0.00E+00	0.00E+00	5.00E+01	0.00E+00	5.00E+01	0.00E+00
SiO2	60.08	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+03	1.26E+03	5.00E+01
Sm(NO3)3	336.46	0.5182	7.25E+00	0.00E+00	7.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sm2O3	348.70	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sm(OH)3	201.37	0.8658	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+02	1.24E+02	0.00E+00
Sn(NO3)4	366.71	0.4110	2.88E-01	0.00E+00	2.88E-01	1.01E+02	0.00E+00	1.01E+02	0.00E+00
SnO2	150.70	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn(OH)4	186.69	0.8072	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E+00	2.02E+00	0.00E+00
SrCO3	147.64	0.7019	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr(NO3)2	211.64	0.4895	7.83E+00	0.00E+00	7.83E+00	1.96E+00	0.00E+00	1.96E+00	0.00E+00
SrO	103.63	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr(OH)2	121.64	0.8519	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SrSO4	183.70	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+02	2.17E+02	0.00E+00
SUGAR(C12H22O11)	342.30	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb(NO3)3	348.00	0.5502	2.12E-03	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb2O3	365.85	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb(OH)3	209.93	0.8714	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TcO2	909.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TeO2	159.60	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th(NO3)4	480.06	0.5800	1.71E+04	0.00E+00	1.71E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ThO2	264.05	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th(OH)4	300.04	0.8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TiO2	79.90	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2(NO3)2	394.10	0.6053	4.11E+00	0.00E+00	4.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2	270.07	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO3	286.07	0.9441	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2(OH)2	304.07	0.8882	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E+03	2.74E+03	0.00E+00
Y2(CO3)3	367.86	0.6310	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y(NO3)3	275.00	0.4104	5.75E+00	0.00E+00	5.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y2O3	225.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y(OH)3	139.93	0.8068	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E+01	8.31E+01	0.00E+00
spare	spare	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn(NO3)2	189.47	0.4295	4.29E+00	0.00E+00	4.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZnO	81.37	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn(OH)2	99.37	0.8189	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+02	1.05E+02	0.00E+00
Zr(NO3)4	339.23	0.3632	4.36E+00	0.00E+00	4.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZrO2	123.22	1.0000	0.00E+00	3.50E+01	3.50E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr(OH)4	159.25	0.7730	0.00E+00	0.00E+00	0.00E+00	7.46E+02	7.46E+02	7.46E+02	0.00E+00
TOTAL OXIDES			22,954	35	22,999	$12,767	75,034	$87,801	$,000
TOTAL OXIDES			22,964	35	22,999	$12,767	75,034	$87,801	$,000
SO3 Equivalent		kg	101.454	0.000	101.454	42,983.375	198.532	43,181.907	0.000
		wt% oxides	0.442	0.002	0.442	0.382	0.262	7.352	0.00
			1 THOREX SUPERNATANT 2/26/87	2 THOREX SLUDGE 2/26/87	3 THOREX WASTE 2/26/87	4 PUREX SUPERNATANT 9/26/82	5 PUREX SLUDGE	6 PUREX WASTE	7 BDI CONDENSATE

8 BD2 CHEMICAL ADD	9 BD2 WATER ADD	10 ADJUSTED PUREX WASTE	11 DECANTED PUREX SUPERNATANT	12 DECANTED PUREX SLUDGE	13 SLUDGE WASH WATER	14 IX ZEOLITE SLURRY BD1	15 SAND FILTER SLURRY BD1	16 SLUDGE WASH SUPERNATANT	17 WASHED PUREX SLUDGE
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
Ag		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
AgNO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ag2O		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
AgOH		6.50E-01	0.00E+00	6.50E-01		0.00E+00		0.00E+00	6.50E-01
AlF3		1.29E+03	1.45E+02	1.15E+03		0.00E+00		1.71E+01	1.13E+03
Al(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Al2O3		0.00E+00	0.00E+00	0.00E+00		8.67E+03		0.00E+00	0.00E+00
Al(OH)3		3.82E+03	0.00E+00	3.82E+03		0.00E+00		0.00E+00	3.82E+03
Am(OH)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Am(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Am2O3		2.70E+01	0.00E+00	2.70E+01		0.00E+00		0.00E+00	2.70E+01
B2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ba(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
BaO		0.00E+00	0.00E+00	0.00E+00		5.03E+01		0.00E+00	0.00E+00
BaSO4		3.03E+02	0.00E+00	3.03E+02		0.00E+00		0.00E+00	3.03E+02
C		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
(CH2)10		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CaCO3		1.80E+03	0.00E+00	1.80E+03		0.00E+00		0.00E+00	1.80E+03
CaC2O4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CaF2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ca(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CaO		0.00E+00	0.00E+00	0.00E+00		6.15E+02		0.00E+00	0.00E+00
Ca(OH)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ca3(PO4)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CaSO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cd(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CdO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cd(OH)2		9.23E-01	0.00E+00	9.23E-01		0.00E+00		0.00E+00	9.23E-01
Ce(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ce2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ce(OH)3		3.04E+02	0.00E+00	3.04E+02		0.00E+00		0.00E+00	3.04E+02
Cm(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cm2O3		4.00E-01	0.00E+00	4.00E-01		0.00E+00		0.00E+00	4.00E-01
Cm(OH)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Co		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Co(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CoO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Co(OH)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cr(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cr2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
CrO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cr(OH)3		4.80E+01	0.00E+00	4.80E+01		0.00E+00		0.00E+00	4.80E+01
CsNO3		3.44E+02	3.44E+02	4.20E+01		0.00E+00		4.08E+01	1.10E+00
CsCl (SV)		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cs2O		0.00E+00	0.00E+00	0.00E+00		3.84E+02		0.00E+00	0.00E+00
#bare		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cu		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cu(NO3)2		2.54E+00	2.27E+00	2.77E-01		0.00E+00		2.69E-01	7.79E-03
CuO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cu(OH)2		3.07E+02	0.00E+00	3.07E+02		0.00E+00		0.00E+00	3.07E+02
CuSO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Dy(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Dy2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Dy(OH)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Eu(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Eu2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Eu(OH)3		7.06E+00	0.00E+00	7.06E+00		0.00E+00		0.00E+00	7.06E+00
Fe		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fe(NO3)3		1.42E+01	1.26E+01	1.54E+00		0.00E+00		1.50E+00	4.34E-02
FeO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fe(OH)3		4.93E+04	0.00E+00	4.93E+04		0.00E+00		0.00E+00	4.93E+04
Fe2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
FePO4		6.35E+03	0.00E+00	6.35E+03		1.96E+03		0.00E+00	6.35E+03
Gd(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Gd2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Gd(OH)3		1.48E+00	0.00E+00	1.48E+00		0.00E+00		0.00E+00	1.48E+00
Ge(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
GeO2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ge(OH)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
H3BO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
H2CO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
H2C2O4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
HCl		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
HF		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
HNO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
H2SO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Hg		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Hg2Cl2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Hg2I2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Hg(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
HgO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Hg(OH)2		1.97E+01	0.00E+00	1.97E+01		0.00E+00		0.00E+00	1.97E+01
In(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
In2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
In(OH)3		2.51E-01	0.00E+00	2.51E-01		0.00E+00		0.00E+00	2.51E-01
K2CrO4		4.48E+03	3.99E+03	4.87E+02		0.00E+00		4.73E+02	1.37E+01
KMnO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
KNO3		1.69E+04	1.51E+04	1.84E+03		0.00E+00		1.79E+03	5.17E+01
K2O		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
KOH		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
La(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
La2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
La(OH)3		1.59E+02	0.00E+00	1.59E+02		0.00E+00		0.00E+00	1.59E+02
LiOH		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
LiNO3		3.03E+00	2.70E+00	3.30E-01		0.00E+00		3.21E-01	9.29E-03
Li2O		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
MgCO3		3.95E+02	0.00E+00	3.95E+02		0.00E+00		0.00E+00	3.95E+02
Mg(NO3)2		5.43E-01	4.84E-01	5.91E-02		0.00E+00		5.74E-02	1.66E-03
MgO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Mg(OH)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Mn(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
MnO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
MnO2		3.74E+03	0.00E+00	3.74E+03		0.00E+00		0.00E+00	3.74E+03
Mn(OH)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
MoO3		0.00E+00	0.00E+00	0.00E+00		1.68E+01		0.00E+00	0.00E+00
Na3BO3		5.97E+02	5.32E+02	6.49E+01		0.00E+00		4.51E+01	1.83E+00
Li3PO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2B4O7		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2C2O4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2CO3		1.48E+04	1.32E+04	1.60E+03		0.00E+00		1.54E+03	4.52E+01
NaCl		4.48E+03	4.17E+03	5.09E+02		0.00E+00		4.95E+02	1.43E+01
#bare		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2CrO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
NaF		5.05E+02	4.48E+02	5.47E+01		0.00E+00		5.31E+01	1.54E+00
NaH2PO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
NaHCO3		1.57E+04	1.40E+04	1.71E+03		0.00E+00		1.66E+03	4.80E+01
NaI		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
H3PO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2MoO4		6.91E+02	6.16E+02	7.51E+01		0.00E+00		7.30E+01	2.11E+00
NaNO2		1.40E+05	1.25E+05	1.52E+04		0.00E+00		1.48E+04	4.28E+02
NaNO3		2.20E+05	1.96E+05	2.39E+04		0.00E+00		2.32E+04	6.72E+02
Na2O		0.00E+00	0.00E+00	0.00E+00		3.83E+03		0.00E+00	0.00E+00
NaOH		1.36E+04	1.21E+04	1.48E+03		0.00E+00		1.43E+03	4.16E+01
Na3PO4		3.80E+03	3.39E+03	4.13E+02		0.00E+00		4.01E+02	1.16E+01
Na2PuO2(OH)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2RhO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2RuO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2SO4		7.45E+04	6.80E+04	8.29E+03		0.00E+00		8.06E+03	2.33E+02
Na2SeO4		1.37E+01	1.22E+01	1.49E+00		0.00E+00		1.45E+00	4.20E-02
Na2SiO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Na2TcO4		1.77E+02	1.58E+02	1.92E+01		0.00E+00		1.87E+01	5.41E-01
Na2TeO4		7.65E+01	6.82E+01	8.31E+00		0.00E+00		8.08E+00	2.34E-01
Na2U2O7		2.19E+02	1.94E+02	2.38E+01		0.00E+00		2.32E+01	6.71E-01
Na(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Nd2O3		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Nd(OH)3		4.46E+02	0.00E+00	4.46E+02		0.00E+00		0.00E+00	4.46E+02
Ni		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ni(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
NiO		0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Mg(NO3)2	5.50E+01	0.00E+00	5.50E+01		0.00E+00		0.00E+00	5.50E+01
Mg(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
P2O5	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pa(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pa02	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pa(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pd	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pd(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
PdO	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pd(OH)2	2.94E+01	0.00E+00	2.94E+01		0.00E+00		0.00E+00	2.94E+01
Pm(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pm203	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pm(OH)3	1.30E+00	0.00E+00	1.30E+00		0.00E+00		0.00E+00	1.30E+00
Pr(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pr203	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pr(OH)3	1.46E+02	0.00E+00	1.46E+02		0.00E+00		0.00E+00	1.46E+02
Pu(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
PuOC	3.70E+01	0.00E+00	3.70E+01		0.00E+00		0.00E+00	3.70E+01
RbNO3	7.54E+01	6.72E+01	8.20E+00		0.00E+00		7.97E+00	2.31E-01
Rb20	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Rh	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Rh(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Rh02	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Rh(OH)4	6.24E+01	0.00E+00	6.24E+01		0.00E+00		0.00E+00	6.24E+01
Ru	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ru(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
RuO2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
########	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ru(OH)4	3.60E+02	0.00E+00	3.60E+02		0.00E+00		0.00E+00	3.60E+02
SO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sb(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sb203	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sb(OH)3	8.91E-01	0.00E+00	8.91E-01		0.00E+00		0.00E+00	8.91E-01
Se02	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Si(NO3)4	5.00E+01	4.46E+01	5.44E+00		0.00E+00		5.29E+00	1.53E-01
Si02	1.26E+03	0.00E+00	1.26E+03		5.36E+04	4.55E+02	0.00E+00	1.26E+03
Sm(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sm203	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sm(OH)3	1.24E+02	0.00E+00	1.24E+02		0.00E+00		0.00E+00	1.24E+02
Sn(NO3)4	1.01E+02	8.97E+01	1.07E+01		0.00E+00		1.04E+01	3.08E-01
SnO2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sn(OH)4	2.02E+00	0.00E+00	2.02E+00		0.00E+00		0.00E+00	2.02E+00
SrCO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Sr(NO3)2	1.96E+00	1.75E+00	2.15E-01		0.00E+00		2.07E-01	8.99E-03
SrO	0.00E+00	0.00E+00	0.00E+00		2.24E+01		0.00E+00	0.00E+00
Sr(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
SrSO4	2.17E+02	0.00E+00	2.17E+02		0.00E+00		0.00E+00	2.17E+02
SUGAR(C12H22O11)	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Tb(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Tb203	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Tb(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Tc207	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Te02	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Th(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
ThO2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Th(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Ti02	0.00E+00	0.00E+00	0.00E+00		1.68E+01		0.00E+00	0.00E+00
UO2(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
UO2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
UO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
UO2(OH)2	2.74E+03	0.00E+00	2.74E+03		0.00E+00		0.00E+00	2.74E+03
Y2(CO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Y(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Y203	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Y(OH)3	8.31E+01	0.00E+00	8.31E+01		0.00E+00		0.00E+00	8.31E+01
########	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Zn(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
ZnO	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Zn(OH)2	1.05E+02	0.00E+00	1.05E+02		0.00E+00		0.00E+00	1.05E+02
Zr(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
ZrO2	0.00E+00	0.00E+00	0.00E+00		2.24E+01		0.00E+00	0.00E+00
Zr(OH)4	7.46E+02	0.00E+00	7.46E+02		0.00E+00		0.00E+00	7.46E+02
TOTAL OXIDES	$87,801	457,028	99,852	0	49,588	455	$4,170	76,603
TOTAL OXIDES	$87,801	457,028	99,852	0	49,588	455	$4,170	76,603
0.000	0.000	43,181,907	38,310,937	4,870,969	0.000	0.000	0.000	4,540,890	330,080
0.00%	0.00%	7.35%	8.38%	4.88%	0.00%	0.00%	0.00%	8.38%	0.43%
8	9	10	11	12	13	14	15	16	17
BD2	BD2	ADJUSTED	DECANTED	DECANTED	SLUDGE	IX ZEOLITE	SAND FILTER	SLUDGE	WASHED
CHEMICAL	WATER	PUREX	PUREX	PUREX	WASH	SLURRY	SLURRY	WASH	PUREX
ADD	ADD	WASTE	SUPERNATANT	SLUDGE	WATER	BD1	BD1	SUPERNATANT	SLUDGE

18 BD1 WASTE BLEND	19 BD1 HEEL FLUSH	20 BD4 CHEMICAL ADD	21 BD4 WATER ADD	22 ADJUSTED THOREX WASTE	23 CAUSTIC ADDITION TO BD2 (50%)	24 CAUSTIC WATER FLUSH TO BD2	25 BD4 TANK FLUSH	26 NEUTRALIZED THOREX WASTE IN BD2	27 VITRIFICATION SYSTEM FEED BD2
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
0.00E+00			Ag	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			AgNO3	5.46E-02	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ag2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			AgOH	0.00E+00	0.00E+00			5.46E-02	7.04E-01
0.00E+00			AlF3	0.00E+00	0.00E+00			0.00E+00	1.13E+03
0.00E+00			Al(NO3)3	5.99E+02	0.00E+00			0.00E+00	0.00E+00
9.67E+03			Al2O3	0.00E+00	0.00E+00			0.00E+00	8.67E+03
0.00E+00			Al(OH)3	0.00E+00	0.00E+00			5.99E+02	4.82E+03
0.00E+00			Am(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Am(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Am2O3	0.00E+00	0.00E+00			0.00E+00	2.70E+01
0.00E+00			B2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ba(NO3)2	1.58E+01	0.00E+00			0.00E+00	0.00E+00
5.03E+01			BaO	0.00E+00	0.00E+00			0.00E+00	5.03E+01
0.00E+00			BaSO4	0.00E+00	0.00E+00			2.41E+01	3.27E+02
0.00E+00			C	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			(CH2)10	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CaCO3	0.00E+00	0.00E+00			0.00E+00	1.80E+03
0.00E+00			CaC2O4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CaF2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ca(NO3)2	1.03E+01	0.00E+00			0.00E+00	0.00E+00
6.15E+02			CaO	0.00E+00	0.00E+00			0.00E+00	6.15E+02
0.00E+00			Ca(OH)2	0.00E+00	0.00E+00			1.03E+01	1.03E+01
0.00E+00			Ca3(PO4)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CaSO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cd(NO3)2	1.43E-01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CdO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cd(OH)2	0.00E+00	0.00E+00			1.01E-01	1.02E+00
0.00E+00			Ce(NO3)3	2.16E+01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CeO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ce(OH)3	0.00E+00	0.00E+00			0.00E+00	3.04E+02
0.00E+00			Cm(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cm2O3	0.00E+00	0.00E+00			0.00E+00	4.00E-01
0.00E+00			Cm(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Co	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Co(NO3)2	1.23E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CoO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Co(OH)2	0.00E+00	0.00E+00			1.23E+00	1.23E+00
0.00E+00			Cr(NO3)3	6.12E+02	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cr2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			CrO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cr(OH)3	0.00E+00	0.00E+00			6.12E+02	6.60E+02
0.00E+00			CsNO3	2.02E+01	0.00E+00			2.02E+01	2.14E+01
0.00E+00			CsCl (SV)	0.00E+00	0.00E+00			0.00E+00	0.00E+00
3.84E+02			Cs2O	0.00E+00	0.00E+00			0.00E+00	3.84E+02
0.00E+00			FeSrF	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cu	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cu(NO3)2	3.39E-01	0.00E+00			0.00E+00	7.79E-03
0.00E+00			CuO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Cu(OH)2	0.00E+00	0.00E+00			3.39E-01	3.07E+02
0.00E+00			CuSO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Dy(NO3)3	1.07E-03	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Dy2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Dy(OH)3	0.00E+00	0.00E+00			1.07E-03	1.07E-03
0.00E+00			Eu(NO3)3	5.20E-01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Eu2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Eu(OH)3	0.00E+00	0.00E+00			5.65E-01	7.62E+00
0.00E+00			Fe	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Fe(NO3)3	2.79E+03	0.00E+00			0.00E+00	4.34E-02
0.00E+00			FeO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Fe(OH)3	0.00E+00	0.00E+00			2.79E+03	5.21E+04
1.96E+03			Fe2O3	0.00E+00	0.00E+00			0.00E+00	1.96E+03
0.00E+00			FePO4	0.00E+00	0.00E+00			0.00E+00	6.36E+03
0.00E+00			Gd(NO3)3	2.11E-01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Gd2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Gd(OH)3	0.00E+00	0.00E+00			2.11E-01	1.69E+00
0.00E+00			Ge(NO3)4	3.90E-03	0.00E+00			0.00E+00	0.00E+00
0.00E+00			GeO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ge(OH)4	0.00E+00	0.00E+00			6.52E-03	6.52E-03
0.00E+00			H3BO3	2.70E+02	0.00E+00			0.00E+00	0.00E+00
0.00E+00			H2CO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			H2C2O4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			HCl	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			HF	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			HNO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			H2SO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Hg	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			HgCl2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			HgI2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Hg(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			HgO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Hg(OH)2	0.00E+00	0.00E+00			0.00E+00	1.57E+01
0.00E+00			In(NO3)3	1.85E-02	0.00E+00			0.00E+00	0.00E+00
0.00E+00			In2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			In(OH)3	0.00E+00	0.00E+00			1.85E-02	2.70E-01
0.00E+00			K2CrO4	0.00E+00	0.00E+00			0.00E+00	1.37E+01
0.00E+00			KMnO4	6.66E+01	0.00E+00			6.66E+01	6.66E+01
0.00E+00			KNO3	8.90E+01	0.00E+00			8.90E+01	1.41E+02
0.00E+00			K2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			KOH	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			La(NO3)3	1.10E+01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			La2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			La(OH)3	0.00E+00	0.00E+00			1.10E+01	1.70E+02
0.00E+00			LiOH	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			LiNO3	0.00E+00	0.00E+00			0.00E+00	9.29E-03
0.00E+00			Li2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			MgCO3	0.00E+00	0.00E+00			0.00E+00	3.95E+02
0.00E+00			Mg(NO3)2	1.55E+01	0.00E+00			0.00E+00	1.66E-03
3.91E+02			MgO	0.00E+00	0.00E+00			0.00E+00	3.91E+02
0.00E+00			Mg(OH)2	0.00E+00	0.00E+00			1.55E+01	1.55E+01
0.00E+00			Mn(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			MnO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			MnO2	0.00E+00	0.00E+00			0.00E+00	3.74E+03
0.00E+00			Mn(OH)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
1.68E+01			MoO3	0.00E+00	0.00E+00			0.00E+00	1.68E+01
0.00E+00			Na3BO3	0.00E+00	0.00E+00			9.92E+02	9.94E+02
0.00E+00			Li3PO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2B4O7	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2C2O4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2CO3	0.00E+00	0.00E+00			0.00E+00	4.52E+01
0.00E+00			NaCl	5.00E+01	0.00E+00			5.00E+01	6.43E+01
0.00E+00			NaF	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2CrO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			NaNO2	1.00E+00	0.00E+00			1.00E+00	2.54E+00
0.00E+00			Na3PO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			NaHCO3	0.00E+00	0.00E+00			0.00E+00	4.80E+01
0.00E+00			NaI	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			H3PO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2MoO4	5.40E+01	0.00E+00			5.40E+01	5.61E+01
0.00E+00			NaNO2	0.00E+00	0.00E+00			0.00E+00	4.20E+02
0.00E+00			NaNO3	8.28E+01	0.00E+00			1.57E+04	1.64E+04
3.83E+03			Na2O	0.00E+00	0.00E+00			0.00E+00	3.83E+03
0.00E+00			NaOH	0.00E+00	1.63E+04			3.95E-13	4.16E+01
0.00E+00			Na3PO4	1.20E+01	0.00E+00			1.20E+01	2.36E+01
0.00E+00			Na2PuO2(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2RhO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2RuO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Na2SO4	1.80E+02	0.00E+00			1.65E+02	3.99E+02
0.00E+00			Na2SeO4	9.15E-01	0.00E+00			9.15E-01	9.57E-01
0.00E+00			Na2SiO3	1.26E+02	0.00E+00			1.26E+02	1.26E+02
0.00E+00			NaTeO4	1.10E+01	0.00E+00			1.10E+01	1.15E+01
0.00E+00			Na2TeO4	4.66E+00	0.00E+00			4.66E+00	4.90E+00
0.00E+00			NaZrO3F	0.00E+00	0.00E+00			0.00E+00	6.71E-01
0.00E+00			Ng(NO3)3	3.72E+01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ng2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ng(OH)3	0.00E+00	0.00E+00			3.72E+01	4.83E+02
0.00E+00			Ni	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ni(NO3)2	3.23E+02	0.00E+00			0.00E+00	0.00E+00
0.00E+00			NiO	0.00E+00	0.00E+00			0.00E+00	0.00E+00

0.00E+00			NbO2	0.00E+00	0.00E+00			0.00E+00	3.50E-01
0.00E+00			Nb(OH)4	0.00E+00	0.00E+00			4.99E-01	4.99E-01
0.00E+00			P2O5	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pa(NO3)4	6.60E-01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			PaO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pa(OH)4	0.00E+00	0.00E+00			6.60E-01	6.60E-01
0.00E+00			Pd	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pd(NO3)2	4.25E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			PdO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pd(OH)2	0.00E+00	0.00E+00			4.25E+00	3.39E+01
0.00E+00			Pm(NO3)3	5.13E-03	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pm2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pm(OH)3	0.00E+00	0.00E+00			5.13E-03	1.50E+00
0.00E+00			Pr(NO3)3	1.06E+01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pr2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Pr(OH)3	0.00E+00	0.00E+00			1.06E+01	1.57E+02
0.00E+00			Pu(NO3)4	3.89E-01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			PuO2	0.00E+00	0.00E+00			3.89E-01	3.74E+01
0.00E+00			RbNO3	3.80E+00	0.00E+00			3.80E+00	4.03E+00
0.00E+00			Rb2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Rh	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Rh(NO3)4	4.23E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			RhO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Rh(OH)4	0.00E+00	0.00E+00			4.23E+00	6.46E+01
0.00E+00			Ru	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ru(NO3)4	1.60E+01	0.00E+00			0.00E+00	0.00E+00
0.00E+00			RuO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Ru(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			SO3	0.00E+00	0.00E+00			1.60E+01	3.76E+02
0.00E+00			Sb(NO3)3	3.48E-02	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Sb2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Sb(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			SeO2	0.00E+00	0.00E+00			4.74E-02	6.38E-01
0.00E+00			Si(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
3.91E+04			SiO2	0.00E+00	0.00E+00			0.00E+00	1.53E-01
0.00E+00			Sm(NO3)3	7.25E+00	0.00E+00			0.00E+00	4.03E+04
0.00E+00			Sm2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Sm(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Sn(NO3)4	2.88E-01	0.00E+00			7.25E+00	1.31E+02
0.00E+00			SnO2	0.00E+00	0.00E+00			0.00E+00	3.08E-01
0.00E+00			Sn(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			SrCO3	0.00E+00	0.00E+00			2.88E-01	2.31E+00
0.00E+00			Sr(NO3)2	7.83E+00	0.00E+00			0.00E+00	0.00E+00
2.24E+01			SrO	0.00E+00	0.00E+00			0.00E+00	5.99E-03
0.00E+00			Sr(OH)2	0.00E+00	0.00E+00			0.00E+00	2.24E+01
0.00E+00			SrSO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			SUGAR(C12H22O11)	0.00E+00	0.00E+00			1.39E+01	2.31E+02
0.00E+00			Tb(NO3)3	2.12E-03	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Tb2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Tb(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			TcO2	0.00E+00	0.00E+00			2.12E-03	2.12E-03
0.00E+00			TeO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Th(NO3)4	1.71E+04	0.00E+00			0.00E+00	0.00E+00
0.00E+00			ThO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Th(OH)4	0.00E+00	0.00E+00			0.00E+00	1.71E+04
1.68E+01			TiO2	0.00E+00	0.00E+00			0.00E+00	1.68E+01
0.00E+00			UO2(NO3)2	4.11E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			UO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			UO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			UO2(OH)2	0.00E+00	0.00E+00			4.11E+00	2.75E+03
0.00E+00			V2(CO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			V(NO3)3	5.75E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			V2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			V(OH)3	0.00E+00	0.00E+00			5.75E+00	8.89E+01
0.00E+00			WO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Zn(NO3)2	4.29E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			ZnO	0.00E+00	0.00E+00			0.00E+00	0.00E+00
0.00E+00			Zn(OH)2	0.00E+00	0.00E+00			4.29E+00	1.09E+02
0.00E+00			Zr(NO3)4	4.36E+00	0.00E+00			0.00E+00	0.00E+00
2.24E+01			ZrO2	3.50E+01	0.00E+00			3.50E+01	5.74E+01
0.00E+00			Zr(OH)4	0.00E+00	0.00E+00			4.36E+00	7.50E+02
55,042			TOTAL OXIDES	22,999	16,331	0		39,308	170,953
55,042			TOTAL OXIDES	22,999	16,331	0		39,308	170,953
0.000	0.000	0.000	0.000	101.454	0.000	0.000	0.000	107.506	437.586
0.00%	0.00%	0.00%	0.00%	0.44%	0.00%	0.00%	0.00%	0.27%	0.26%
18	19	20	21	22	23	24	25	26	27
#01	#01	#04	#04	ADJUSTED	CAUSTIC	CAUSTIC	#04	NEUTRALIZED	VITRIFICATION
WASTE BLEND	HEEL FLUSH	CHEMICAL ADD	WATER ADD	THOREX WASTE	ADDITION TO #02 (50%)	WATER FLUSH TO #02	TANK FLUSH	THOREX WASTE IN #02	SYSTEM FEED #02

	28 BD2 SLURRY TRANSFER FLUSH	29 SBS RECYCLE	30 CANISTER DECON SOLN RECYCLE	31 HEME FLUSH/COND RECYCLE	32 LWTS CONCENTRATE RECYCLE	33 WASTE HEADER RECYCLE	34 NONROUTINE WASTE RECYCLE	35 DILUTE CMPT WASTE FEED	36 CONCENTRATED CMPT WASTE	37 CMPT WASTE OVERHEADS
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
Ag	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
AgNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ag2O	2.28E-05	0.00E+00	7.59E-08		0.00E+00			2.35E-03	2.35E-03	3.51E-06
AgOH	0.00E+00	0.00E+00	0.00E+00		0.00E+00			7.04E-01	7.04E-01	1.05E-03
AlF3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.13E+03	1.13E+03	1.69E+00
Al(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Al2O3	1.00E+02	0.00E+00	3.35E+00		0.00E+00			8.77E+03	8.77E+03	1.31E+01
Al(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.82E+03	4.82E+03	7.21E+00
Am(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Am(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Am2O3	8.73E-02	0.00E+00	2.91E-03		0.00E+00			2.71E+01	2.71E+01	4.06E-02
B2O3	9.77E+02	0.00E+00	4.72E-01		0.00E+00			9.78E+02	9.78E+02	1.46E+00
Ba(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
BeO	1.63E-01	0.00E+00	5.42E-03		0.00E+00			5.05E+01	5.05E+01	7.55E-02
BaSO4	1.06E+00	0.00E+00	3.53E-02		0.00E+00			3.28E+02	3.28E+02	4.90E-01
C	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
(CH2)10	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaCO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.80E+03	1.80E+03	2.69E+00
CaC2O4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaF2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ca(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaO	7.67E+00	0.00E+00	2.56E-01		0.00E+00			6.23E+02	6.23E+02	9.31E-01
Ca(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.03E+01	1.03E+01	1.53E-02
Ca3(PO4)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaSO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cd(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
CdO	9.48E-02	0.00E+00	1.83E-02		0.00E+00			1.13E-01	1.13E-01	1.69E-04
Cd(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.02E+00	1.02E+00	1.53E-03
Ce(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ce2O3	9.63E-01	0.00E+00	3.28E-02		0.00E+00			1.02E+00	1.02E+00	1.52E-03
Ce(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			3.04E+02	3.04E+02	4.54E-01
Cm(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cm2O3	1.29E-03	0.00E+00	4.31E-05		0.00E+00			4.01E-01	4.01E-01	6.00E-04
Cm(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Co	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Co(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
CoO	3.97E-03	0.00E+00	1.32E-04		0.00E+00			4.10E-03	4.10E-03	6.13E-06
Co(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.23E+00	1.23E+00	1.84E-03
Cr(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cr2O3	2.15E+00	0.00E+00	7.18E-02		0.00E+00			2.23E+00	2.23E+00	3.33E-03
CrO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cr(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			6.60E+02	6.60E+02	9.86E-01
CsNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			2.14E+01	2.14E+01	3.20E-02
CsCl (SV)	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cs2O	6.90E+00	0.00E+00	1.33E+00		0.00E+00			3.93E+02	3.93E+02	5.87E-01
spare	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cu	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cu(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			7.79E-03	7.79E-03	1.16E-05
CuO	9.92E-01	0.00E+00	3.31E-02		0.00E+00			1.03E+00	1.03E+00	1.53E-03
Cu(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			3.07E+02	3.07E+02	4.59E-01
CuSO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Dy(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Dy2O3	3.46E-06	0.00E+00	1.15E-07		0.00E+00			3.57E-06	3.57E-06	5.34E-09
Dy(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.07E-03	1.07E-03	1.60E-06
Eu(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Eu2O3	2.46E-02	0.00E+00	8.22E-04		0.00E+00			2.55E-02	2.55E-02	3.81E-05
Eu(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			7.62E+00	7.62E+00	1.14E-02
Fe	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Fe(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.34E-02	4.34E-02	6.49E-05
FeO	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Fe(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			5.21E+04	5.21E+04	7.79E+01
Fe2O3	1.86E+02	0.00E+00	6.20E+00		0.00E+00			2.15E+03	2.15E+03	3.21E+00
FePO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			6.35E+03	6.35E+03	9.49E+00
Gd(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Gd2O3	5.47E-03	0.00E+00	1.82E-04		0.00E+00			5.65E-03	5.65E-03	8.44E-06
Gd(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.69E+00	1.69E+00	2.53E-03
Ge(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
GeO2	2.11E-05	0.00E+00	7.03E-07		0.00E+00			2.18E-05	2.18E-05	3.26E-08
Ge(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			6.52E-03	6.52E-03	9.75E-06
H3BO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2CO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2C2O4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
HCl	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
HF	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
HNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2SO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg	5.45E+00	0.00E+00	1.05E+00		0.00E+00			6.51E+00	6.51E+00	9.72E-03
Hg2Cl2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg2I2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
HgO	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.97E+01	1.97E+01	2.94E-02
In(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
In2O3	8.72E-04	0.00E+00	2.91E-05		0.00E+00			9.01E-04	9.01E-04	1.35E-06
In(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			2.70E-01	2.70E-01	4.03E-04
K2CrO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.37E+01	1.37E+01	2.05E-02
KMnO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			6.66E+01	6.66E+01	9.96E-02
KNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.41E+02	1.41E+02	2.10E-01
K2O	5.73E+01	0.00E+00	1.91E+00		0.00E+00			5.52E+01	5.52E+01	8.24E-02
KOH	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
La(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
La2O3	5.49E-01	0.00E+00	1.83E-02		0.00E+00			5.67E-01	5.67E-01	8.47E-04
La(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.70E+02	1.70E+02	2.54E-01
LiOH	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
LiNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			9.29E-03	9.29E-03	1.39E-05
Li2O	4.84E+01	0.00E+00	1.61E+00		0.00E+00			5.00E+01	5.00E+01	7.47E-02
MgCO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			3.95E+02	3.95E+02	5.90E-01
Mg(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.66E-03	1.66E-03	2.48E-06
MgO	1.38E+01	0.00E+00	4.60E-01		0.00E+00			4.06E+02	4.06E+02	6.06E-01
Mg(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.55E+01	1.55E+01	2.31E-02
Mn(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
MnO	1.53E+01	0.00E+00	5.12E-01		0.00E+00			1.59E+01	1.59E+01	2.37E-02
MnO2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			3.74E+03	3.74E+03	5.59E+00
Mn(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
MoO3	5.37E-01	0.00E+00	2.73E-02		0.00E+00			1.73E+01	1.73E+01	2.59E-02
NaBO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			9.94E+02	9.94E+02	1.49E+00
Na3PO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2B4O7	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2C2O4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2CO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.52E+01	4.52E+01	6.75E-02
NaCl	1.78E+01	0.00E+00	3.45E+00		0.00E+00			8.56E+01	8.56E+01	1.28E-01
spare	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2CrO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
NaF	2.24E+02	0.00E+00	4.35E+01		0.00E+00			2.70E+02	2.70E+02	4.03E-01
NaH2PO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
NaHCO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.80E+01	4.80E+01	7.18E-02
NaI	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
H3PO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2MoO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			5.61E+01	5.61E+01	8.39E-02
NaNO2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.28E+02	4.28E+02	6.39E-01
NaNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.64E+04	1.64E+04	2.45E+01
Na2O	6.89E+01	0.00E+00	5.84E+00		0.00E+00			3.90E+03	3.90E+03	5.82E+00
NaOH	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.16E+01	4.16E+01	6.21E-02
Na3PO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			2.36E+01	2.36E+01	3.53E-02
Na2P2O2(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2RhO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2RuO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2SO4	2.68E+02	0.00E+00	4.30E+01		0.00E+00			6.67E+02	6.67E+02	9.96E-01
Na2SeO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			9.57E-01	9.57E-01	1.43E-03
Na2SiO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.26E+02	1.26E+02	1.88E-01
NaTcO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			1.15E+01	1.15E+01	1.72E-02
Na2TeO4	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.90E+00	4.90E+00	7.32E-03
Na2U2O7	0.00E+00	0.00E+00	0.00E+00		0.00E+00			6.71E-01	6.71E-01	1.00E-03
Nd(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Nd2O3	1.56E+00	0.00E+00	5.21E-02		0.00E+00			1.61E+00	1.61E+00	2.41E-03
Nd(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00			4.83E+02	4.83E+02	7.22E-01
Ni	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ni(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00			0.00E+00	0.00E+00	0.00E+00
NiO	3.88E+00	0.00E+00	1.29E-01		0.00E+00			4.01E+00	4.01E+00	5.99E-03

[illegible]O2	1.15E-01	0.00E+00	3.83E-03		0.00E+00		3.51E+01	3.51E+01	5.25E-02
Mg(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		4.99E-01	4.99E-01	7.46E-04
P2O5	3.62E+01	0.00E+00	1.21E+00		0.00E+00		3.74E+01	3.74E+01	5.59E-02
Pa(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
PaO2	2.13E-03	0.00E+00	7.11E-05		0.00E+00		2.20E-03	2.20E-03	3.29E-06
Pa(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		6.60E-01	6.60E-01	9.86E-04
Pd	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Pd(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
PdO	1.10E-01	0.00E+00	3.66E-03		0.00E+00		1.13E-01	1.13E-01	1.69E-04
Pd(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		3.39E+01	3.39E+01	5.06E-02
Pm(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Pm2O3	4.20E-03	0.00E+00	1.40E-04		0.00E+00		4.34E-03	4.34E-03	6.49E-06
Pm(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		1.30E+00	1.30E+00	1.94E-03
Pr(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Pr2O3	5.06E-01	0.00E+00	1.69E-02		0.00E+00		5.25E-01	5.25E-01	7.82E-04
Pr(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		1.57E+02	1.57E+02	2.34E-01
Pu(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
PuO2	1.21E-01	0.00E+00	4.03E-03		0.00E+00		3.75E+01	3.75E+01	5.61E-02
RbNO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		4.03E+00	4.03E+00	6.03E-03
Rb2O	1.50E-02	0.00E+00	4.35E-04		0.00E+00		1.35E-02	1.35E-02	2.01E-05
Rh	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Rh(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
RhO2	2.15E-01	0.00E+00	7.18E-03		0.00E+00		2.22E-01	2.22E-01	3.32E-04
Rh(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		6.66E+01	6.66E+01	9.95E-02
Ru	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Ru(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
RuO2	3.97E+01	0.00E+00	2.02E+00		0.00E+00		4.18E+01	4.18E+01	6.24E-02
[illegible]e	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Ru(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		5.76E+02	5.76E+02	5.63E-01
SO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Sb(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Sb2O3	2.06E-03	0.00E+00	6.87E-05		0.00E+00		2.13E-03	2.13E-03	3.18E-06
Sb(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		6.38E-01	6.38E-01	9.53E-04
SeO2	2.69E-02	0.00E+00	5.21E-03		0.00E+00		3.21E-02	3.21E-02	4.80E-05
Si(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		1.53E-01	1.53E-01	2.29E-04
SiO2	6.65E+02	0.00E+00	2.22E+01		0.00E+00		4.10E+04	4.10E+04	6.13E+01
Sm(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Sm2O3	4.24E-01	0.00E+00	1.41E-02		0.00E+00		4.38E-01	4.38E-01	6.54E-04
Sm(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		1.31E+02	1.31E+02	1.96E-01
Sn(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		3.08E-01	3.08E-01	4.60E-04
SnO2	8.45E-03	0.00E+00	2.82E-04		0.00E+00		8.73E-03	8.73E-03	1.30E-05
Sn(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		2.31E+00	2.31E+00	3.45E-03
SrCO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Sr(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		5.99E-03	5.99E-03	8.95E-06
SrO	7.23E-02	0.00E+00	2.41E-03		0.00E+00		2.24E+01	2.24E+01	3.35E-02
Sr(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
SrSO4	7.46E-01	0.00E+00	2.49E-02		0.00E+00		2.32E+02	2.32E+02	3.46E-01
SUGAR(C12H22O11)	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Tb(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Tb2O3	6.86E-06	0.00E+00	2.29E-07		0.00E+00		7.09E-06	7.09E-06	1.06E-08
Tb(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		2.12E-03	2.12E-03	3.17E-06
TeO2	8.89E-01	0.00E+00	1.72E-01		0.00E+00		1.06E+00	1.06E+00	1.59E-03
ThO2	1.55E-01	0.00E+00	2.99E-02		0.00E+00		1.85E-01	1.85E-01	2.76E-04
Th(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	3.78E+02	0.00E+00
ThO2	5.52E+01	0.00E+00	1.84E+00		0.00E+00		5.71E+01	5.71E+01	8.53E-02
Th(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		1.71E+04	1.67E+04	2.55E+01
TiO2	1.40E+01	0.00E+00	4.65E-01		0.00E+00		3.12E+01	3.12E+01	4.66E-02
UO2(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
UO2	8.86E+00	0.00E+00	2.96E-01		0.00E+00		9.18E+00	9.18E+00	1.37E-02
UO3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
UO2(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		2.75E+03	2.75E+03	4.10E+00
Y2(CO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Y(NO3)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Y2O3	2.87E-01	0.00E+00	9.58E-03		0.00E+00		2.97E-01	2.97E-01	4.44E-04
Y(OH)3	0.00E+00	0.00E+00	0.00E+00		0.00E+00		8.89E+01	8.89E+01	1.33E-01
[illegible]ere	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
Zn(NO3)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
ZnO	3.53E-01	0.00E+00	1.18E-02		0.00E+00		3.65E-01	3.65E-01	5.45E-04
Zn(OH)2	0.00E+00	0.00E+00	0.00E+00		0.00E+00		1.09E+02	1.09E+02	1.63E-01
Zr(NO3)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00
ZrO2	2.61E+00	0.00E+00	8.70E-02		0.00E+00		6.01E+01	6.01E+01	8.98E-02
Zr(OH)4	0.00E+00	0.00E+00	0.00E+00		0.00E+00		7.50E+02	7.50E+02	1.12E+00
TOTAL OXIDES	2,825	0	99		0		175,877	175,877	260
TOTAL OXIDES	2,825	0	99		0		175,877	175,877	260
	0.000	151.736	0.000	0.047	0.000	0.000	0.000	589.369	589.369	0.881
	0.00%	5.37%	0.00%	0.00%	0.00%	0.00%	0.00%	0.34%	0.34%	0.3

28	29	30	31	32	33	34	35	36	37
602 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE	MONDOUTINE WASTE RECYCLE	DILUTE CMPT WASTE FEED	CONCENTRATED CMPT WASTE	CMPT WASTE OVERHEADS

38 GLASS FORMERS kg	39 MELTER FEED W/O GLASS FORMERS kg	40 MELTER FEED GLASS kg	
			Ag
			AgNO3
	7.06E-01	7.06E-01	Ag2O
			AgOH
	Al2O3,NaF		AlF3
			Al(NO3)3
1.72E+04	1.39E+04	3.12E+04	Al2O3
			Al(OH)3
			Am(OH)3
			Am(NO3)3
	2.71E+01	2.71E+01	Am2O3
4.76E+04	1.25E+01	4.89E+04	B2O3
			Ba(NO3)2
	5.05E+01	5.05E+01	BaO
	3.29E+02	3.29E+02	BaSO4
			C
	0.00E+00	0.00E+00	(CH2)10
			CaCO3
			CaC2O4
	CaO,NaF		CaF2
			Ca(NO3)2
-4.89E+01	2.43E+03	2.38E+03	CaO
			Ca(OH)2
	CaO,P2O5		Ca3(PO4)2
	0.00E+00	0.00E+00	CaSO4
			Cd(NO3)2
	1.14E+00	1.14E+00	CdO
			Cd(OH)2
			Ce(NO3)3
	5.05E+02	5.05E+02	Ce2O3
			Ce(OH)3
			Cm(NO3)3
	4.01E-01	4.01E-01	Cm2O3
			Cm(OH)3
			Co
			Co(NO3)2
	1.23E+00	1.23E+00	CoO
			Co(OH)2
			Cr(NO3)3
	6.68E+02	6.68E+02	Cr2O3
			CrO3
			Cr(OH)3
			CsNO3
			CsCl(SV)
	4.14E+02	4.14E+02	Cs2O
			spare
			Cu
			Cu(NO3)2
	3.08E+02	3.08E+02	CuO
			Cu(OH)2
	CuO		CuSO4
			Dy(NO3)3
	1.07E-03	1.07E-03	Dy2O3
			Dy(OH)3
			Eu(NO3)3
	7.65E+00	7.65E+00	Eu2O3
			Eu(OH)3
			Fe
			Fe(NO3)3
			FeO
			Fe(OH)3
8.90E+01	5.76E+04	5.77E+04	Fe2O3
	Fe2O3,P2O5		FePO4
			Gd(NO3)3
	1.70E+00	1.70E+00	Gd2O3
			Gd(OH)3
			Ge(NO3)4
	6.55E-03	6.55E-03	GeO2
			Ge(OH)4
	B2O3		H3BO3
			H2CO3
			H2C2O4
	NaCl		HCl
	NaF		HF
			HNO3
	0.5 Na2SO4		H2SO4
	2.62E+01	2.62E+01	Hg
	Hg,NaCl		Hg2Cl2
	Hg,I2		Hg2I2
	Hg		Hg(NO3)2
	Hg		HgO
	Hg,H2O,O2		Hg(OH)2
			In(NO3)3
	2.70E-01	2.70E-01	In2O3
			In(OH)3
	K2O,Cr2O3		K2CrO4
	K2O,MnO2		KMnO4
			KNO3
1.75E+04	2.31E+02	1.78E+04	K2O
			KOH
			La(NO3)3
	1.70E+02	1.70E+02	La2O3
			La(OH)3
			LiOH
			LiNO3
1.50E+04	5.00E+01	1.50E+04	Li2O
			MgCO3
			Mg(NO3)2
3.47E+03	8.16E+02	4.29E+03	MgO
			Mg(OH)2
			Mn(NO3)2
1.67E+03	3.10E+03	4.76E+03	MnO
			MnO2
			Mn(OH)2
	5.66E+01	5.66E+01	MoO3
	Na2O,B2O3		Na3BO3
	Li2O,P2O5		Li3PO4
	Na2O,B2O3		Na2B4O7
			Na2C2O4
			Na2CO3
	8.56E+01	8.56E+01	NaCl
			spare
	Na2O,Cr2O3		Na2CrO4
	1.07E+03	1.07E+03	NaF
			NaH2PO4
			NaHCO3
	Na2O,I2		NaI
			NaH2PO4
	Na2O,NO3		Na2MoO4
			NaNO2
			NaNO3
3.32E+04	2.12E+04	5.44E+04	Na2O
			NaOH
	Na2O,P2O5		Na3PO4
	Na2O,PuO2		Na2PuO2(OH)4
	Na2O,RhO2		Na2RhO4
	Na2O,RuO2		Na2RuO4
	4.00E+02	4.00E+02	Na2SO4
	Na2O,SeO2		Na2SeO4
	Na2O,SiO2		Na2SiO3
	Na2O,Tc2O7		NaTcO4
	Na2O,TeO2		Na2TeO4
	Na2O,UO2		Na2U2O7
			Nd(NO3)3
	4.85E+02	4.85E+02	Nd2O3
			Nd(OH)3
			Ni
			Ni(NO3)2
	1.20E+03	1.20E+03	NiO

			Mg(OH)4
8.21E+03	3.04E+03	1.12E+04	P2O5
			Pa(NO3)4
	6.62E-01	6.62E-01	PaO2
			Pa(OH)4
			Pd
			Pd(NO3)2
	3.40E+01	3.40E+01	PdO
			Pd(OH)2
			Pm(NO3)3
	1.30E+00	1.30E+00	Pm2O3
			Pm(OH)3
			Pr(NO3)3
	1.57E+02	1.57E+02	Pr2O3
			Pr(OH)3
			Pu(NO3)4
	3.75E+01	3.75E+01	PuO2
			RbNO3
	4.05E+00	4.05E+00	Rb2O
			Rh
			Rh(NO3)4
	6.68E+01	6.68E+01	RhO2
			Rh(OH)4
			Ru
			Ru(NO3)4
	4.18E+02	4.18E+02	RuO2
			spare
			Ru(OH)4
	0.00E+00	0.00E+00	SO3
			Sb(NO3)3
	6.40E-01	6.40E-01	Sb2O3
			Sb(OH)3
	6.46E-01	6.46E-01	SeO2
			Si(NO3)4
1.65E+05	4.11E+04	2.07E+05	SiO2
			Sm(NO3)3
	1.32E+02	1.32E+02	Sm2O3
			Sm(OH)3
			Sn(NO3)4
	2.62E+00	2.62E+00	SnO2
			Sr(OH)4
			SrCO3
			Sr(NO3)2
	2.25E+01	2.25E+01	SrO
			Sr(OH)2
	2.32E+02	2.32E+02	SrSO4
	0.00E+00		SUGAR(C12H22O11)
			Tb(NO3)3
	2.13E-03	2.13E-03	Tb2O3
			Tb(OH)3
	1.07E+01	1.07E+01	TeO2
	3.71E+00	3.71E+00	TeO2
			Th(NO3)4
	1.71E+04	1.71E+04	ThO2
			Th(OH)4
4.30E+03	3.12E+01	4.33E+03	TiO2
			UO2(NO3)2
	2.76E+03	2.76E+03	UO2
			UO3
			UO2(OH)2
			V2(CO3)3
			Y(NO3)3
	8.92E+01	8.92E+01	Y2O3
			Y(OH)3
	0.00E+00		spare
			Zn(NO3)2
	1.09E+02	1.09E+02	ZnO
			Zn(OH)2
			Zr(NO3)4
	8.10E+02	8.10E+02	ZrO2
			Zr(OH)4
313,701	172,434	486,135	TOTAL OXIDES
313,701	172,434	476,374	TOTAL OXIDES
		486,135	TOTAL OXIDES
0.000	589.4	589.4	SO3 Equivalent
0.00%	0.34%	0.12%	SO3 WT%

38	39	40
GLASS FORMERS	MELTER FEED W/O GLASS	MELTER FEED (GLASS)

WEST VALLEY HIGH LEVEL WASTE FLOW SHEET
PARAMETER SELECTIONS

PARAMETER (COLUMN A-B)	NUMBER (COLUMN C)
WEST VALLEY WASTE COMPOSITION	
LOTUS COLUMNS D - I	
YEAR RADIONUCLIDES DECAYED TO, Yr	1990

WEST VALLEY 8D1 SLUDGE WASHING
LOTUS COLUMNS J - V

J/7 8D1 CONDENSATE		
1. Water Level in 8D1 MRS, 8/26/87	6.00 684,000	ft l
2. Solids Composition per MRS		
a. Rust (Fe_2O_3)	0	lb
b. Dirt (SiO_2)	11,000	lb
3. Radionuclide Content per MRS as of 10/22/84		
a. 137-Cs	625	Ci
b. 90-Sr	625	Ci
K/11 DECANTED PUREX SUPERNATANT		
1. Supernatant Pump Heel	1.00 109,000	ft l
O/12 DECANTED PUREX SLUDGE		
1. Presashed Total Sludge Height	1.50 163,500	ft l
2. Postwash Total Sludge Height	3.00 327,000	ft l
P/13 SLUDGE WASH WATER		
1. Number of Washes	4.00	
2. Water Volume / Wash	532,000 5.80	l ft
3. Wash Supernatant Heel	1.00 109,000	ft l
Q/14 IX ZEOLITE SLURRY 8D1 (See 044 to 086 for parameter explanation)		
1. 8D2 Supernatant Processed Per Cycle	36,000	l
2. 8D2 Wash Solution Processed Per Cycle	252,368	l
3. Water Produced In 8D1 Per IX Cycle	2,907	l
4. Zeolite (with hydration water) Produced In 8D1 Per IX Cycle	1,200	l
5. Fraction Of Cesium Recovered	0.999	
R/15 SAND FILTER SLURRY TO 8D1		
1. Total Number Of Sand Beds	1.000	

WEST VALLEY 8D4 THOREX WASTE NEUTRALIZATION
LOTUS COLUMNS W - AC

AB/25 8D4 TANK FLUSH		
1. 8D4 Water Flush	4,400	l

WEST VALLEY VITRIFICATION FEED MAKEUP
LOTUS COLUMNS AD - AP

BASIC VITRIFICATION PROCESS PARAMETERS		
1. Waste Oxide Loading In Glass (Basis for trial glass formulation)	36.500 0.3650	wt% fraction
2. Melter Feed Concentration In FHT On Oxide Basis	450.00	g/l of TO
3. Melter Feed Batch Size In FHT	3250.00 12301.25	gal l
4. Jet Dilution	10.00	vol%
5. Vitrification Feed Water Dilution Factor	1.00	
6. Glass Per Canister	1900.00	kg
7. Glass Production Rate	45.0	kg/hr
8. Off Gas Decontamination Factors Equipment For:	Melter	SBS HEME

Chemical Column				
Nonvolatile				
	Particulates	300.0	30.0	30.0
Semivolatiles				
	Ce	50.0	6.0	30.0
	B	50.0	2,000.0	30.0
	Ru	10.0	20.0	30.0
	Mo	100.0	20.0	30.0
	Cl	4.0	6.0	30.0
	Fl	4.0	6.0	30.0
	Se	20.0	6.0	30.0
	Te	20.0	6.0	30.0
	S	Amt. Rmn.	Amt. Rmn.	Not Present
	Tc	10.0	6.0	30.0
	Ag	4.0	6.0	30.0
	Cd	10.0	6.0	30.0
Volatiles		NOT APPLICABLE	1.0	1.0
	COx			
	I2	1.0		
	NOZ		Amt. Rmn.	Amt. Rmn.
	N2	1.0		
	O2	1.0		
	H2			
	NO			

SOx from melter quantitatively reacts in SBS.

9. Air Inleakages/Supplies (Based: Dry Air)
See other bases in appropriate column notes

a. Melter	50.00	scfm
b. Film Cooler	140.00	scfm
c. Pressure Control	95.00	scfm
d. SBS Air Sparge	2.50	scfm
e. Vessel Vent	100.00	scfm
Total	337.50	

9. Glass Formulation

a. Waste Loading	36.50	wt%
Variable Location: C1325		
b. Composition Scaling Factor	1.0000	
c. Glass Weight: Basis Loading	476,374	kg
Calculated	486,135	kg
d. Critical Component	89	kg

Addition: Fe2O3 (= 0)

a. Glass Composition	Wt%	Wt Fraction
Ag2O		0.00E+00
Al2O3	6.5400	6.54E-02
Am2O3	0.0056	5.57E-05
B2O3	10.2600	1.03E-01
BaO	0.0104	1.04E-04
BaSO4		0.00E+00
(CH2)10		0.00E+00
CaO	0.5000	5.00E-03
CaSO4		0.00E+00
CdO		0.00E+00
Ce2O3	0.0627	6.27E-04
Cm2O3		0.00E+00
CoO		0.00E+00
Cr2O3	0.1376	1.38E-03
Cs2O	0.0852	8.52E-04
CuO	0.0633	6.33E-04
Dy2O3		0.00E+00
Eu2O3		0.00E+00
Fe2O3	12.1200	1.21E-01
Gd2O3		0.00E+00
GeO2		0.00E+00
Hg		0.00E+00
In2O3		0.00E+00
K2O	3.7300	3.73E-02
La2O3	0.0350	3.50E-04
Li2O	3.1500	3.15E-02
MgO	0.9000	9.00E-03
MnO	1.0000	1.00E-02
MoO3	0.0116	1.16E-04
NaCl		0.00E+00
NaF		0.00E+00
Na2O	11.4200	1.14E-01
Na2SO4		0.00E+00
Nd2O3	0.0997	9.97E-04
NiO	0.2476	2.48E-03
NpO2	0.0073	7.33E-05
P2O5	2.3600	2.36E-02
PaO3		0.00E+00
PdO	0.0070	6.99E-05
Pm2O3		0.00E+00
Pr2O3	0.0323	3.23E-04
PuO2	0.0077	7.72E-05
Rb2O		0.00E+00
RhO2	0.0137	1.37E-04
RuO2	0.0860	8.60E-04
SO3	0.0000	0.00E+00
Sb2O3		0.00E+00
SeO2		0.00E+00
SiO2	43.3500	4.33E-01
Sm2O3		0.00E+00
SnO2		0.00E+00
SrO		0.00E+00
SrSO4		0.00E+00
Tb2O3		0.00E+00
Tc2O7		0.00E+00
TeO2		0.00E+00
ThO2		0.00E+00
TiO2	0.9090	9.09E-03
UO2		0.00E+00
V2O5		0.00E+00
ZnO		0.00E+00
ZrO2		0.00E+00
		0.00E+00
		0.00E+00
Total	97.1519	9.72E-01

AE/28 HO2 SLURRY TRANSFER FLUSH

1. Water Flush Volume Per Feed Makeup	40.00 151.40	gal l

AF/29 SBS RECYCLE

1. Include In Recycle Nom0, Vesm1	1.000	
2. SBS Jet Dilution	6.00	wt%

AG/30 CANISTER DECON SOLUTION RECYCLE

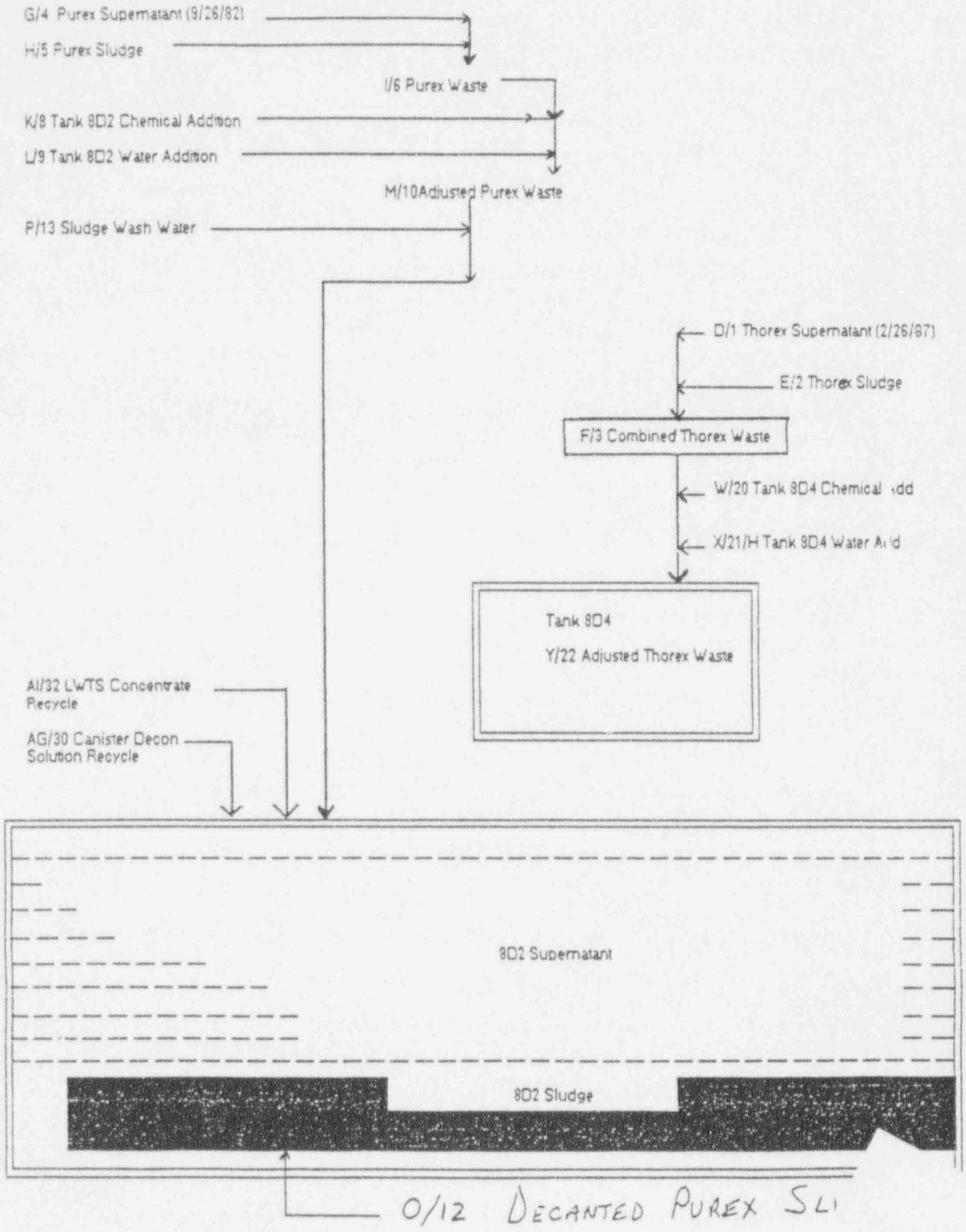
1. Flush/Jet Dilution Fctr	1.00	
2. Include In Recycle Nom0, Vesm1	0.00E+00	

AH/31 HEME FLUSH CONDENSATE RECYCLE

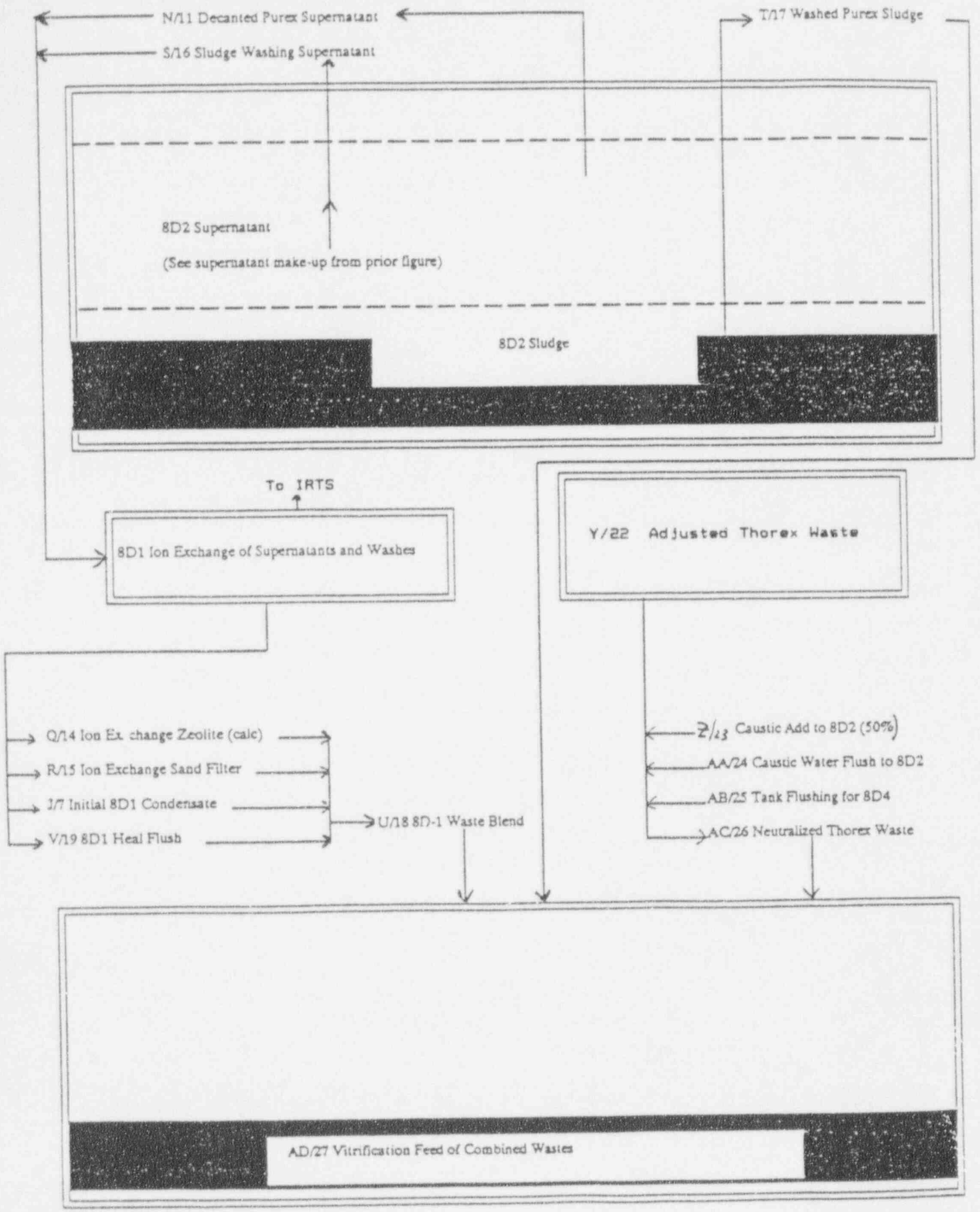
1. Include In Recycle Nom0, Vesm1	1.00	

2. Water Flush Frequency	720.0 hr
3. Water Flush Volume	90.0 gal
AJ/35 WASTE HEADER RECYCLE	
1. Include In Recycle Nom0, Yes=1	0.0GE+00
AN/37 CFMT WASTE OVERHEADS	
1. Average Concentration Of Solids In Bottoms/ Average Concentration Of Solids In Overheads	1,000
AP/39 MAKE-UP MELTER FEED	
1. Water Flush Per Batch Of Glass Formers	100 gal
BA/50 SBS OFF GAS	
1. SBS Bed Temperature	45 C
2. SBS Bed Pressure	45 in H20 Vac.

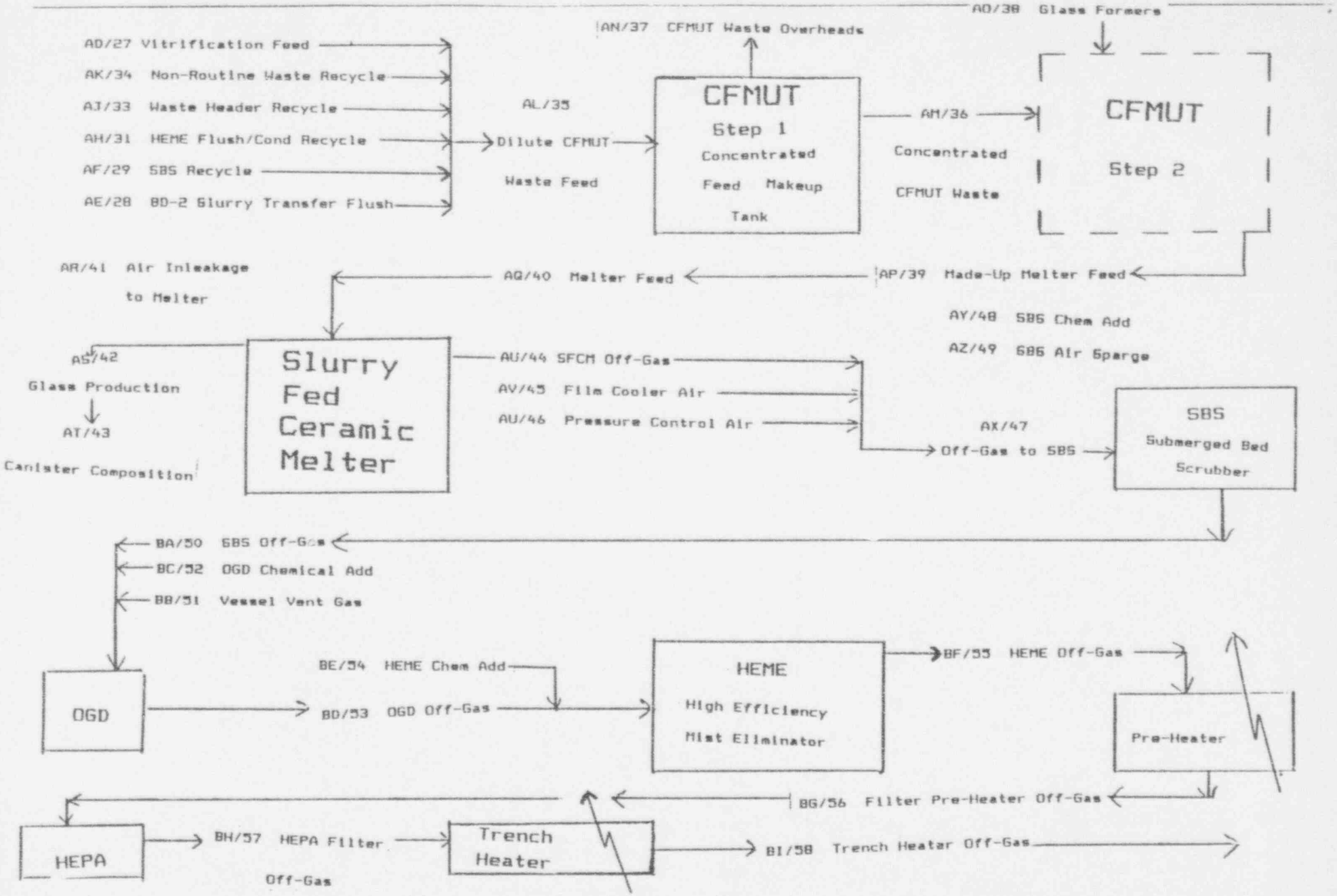
Assumed Initial and Interim Compositions for Tanks 8D2 and 8D4

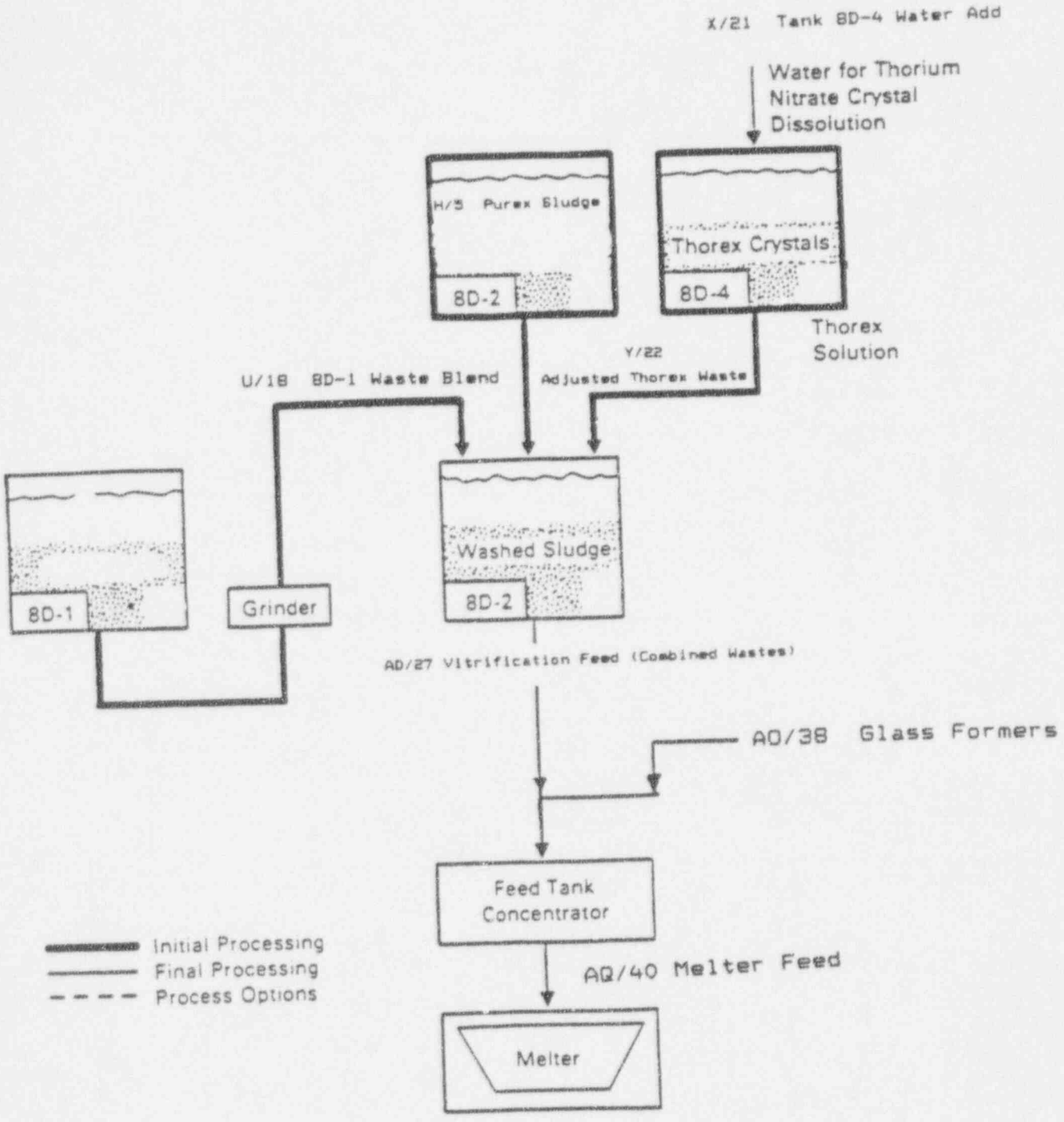


Vitrification Waste Feed and Assumed Ion Exchange



VITRIFICATION FLOW SCHEMATIC





Simplified Waste Tank Process Flowsheet

STREAM NUMBER		1	2	3	4	5
STREAM NAME		THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE 1/31/89
COMPONENT KG	MOLECULAR WEIGHT	kg	kg	kg	kg	kg
H2O	18.02	34,148	0	34,148	1,727,164	0
Ag	107.87			0.00		
AgNO3	169.89	0.08	0.00	0.08		
Ag2O	231.76			0.00		
AgOH	124.88			0.00	0.00	0.70
AlF3	83.98			0.00	77.00	536.00
Al(NO3)3	213.00	4,175.00	0.00	4,175.00		
Al2O3	101.96			0.00		
Al(OH)3	78.00			0.00	0.00	5,852.00
Am(OH)3	294.00			0.00		
Am(NO3)3	429.00			0.00		
Am2O3	534.30			0.00	0.00	27.00
B2O3	69.62			0.00		
Ba(NO3)2	261.35	27.00	0.00	27.00		
BaO	153.32			0.00		
BaSO4	233.40			0.00	0.00	303.00
C	12.00			0.00		
(CH2)10	140.00			0.00		
CaCO3	100.09			0.00	0.00	3,208.00
CaC2O4	128.12			0.00		
CaF2	78.08			0.00		
Ca(NO3)2	164.09	30.00	0.00	30.00		
CaO	56.08			0.00		
Ca(OH)2	74.09			0.00		
Ca3(PO4)2	310.18			0.00		
CaSO4	136.14			0.00		
Cd(NO3)2	236.41	0.30	0.00	0.30		
CdO	128.40			0.00		
Cd(OH)2	146.11			0.00	0.00	1.70
Ce(NO3)3	326.23	43.00	0.00	43.00		
Ce2O3	328.24			0.00		
Ce(OH)3	191.14			0.00	0.00	354.00
Cm(NO3)3	433.00			0.00		
Cm2O3	542.00			0.00	0.00	0.40
Cm(OH)3	298.00			0.00		
Co	58.93			0.00		
Co(NO3)2	183.04	3.00	0.00	3.00		
CoO	74.93			0.00		
Co(OH)2	92.95			0.00		
Cr(NO3)3	238.15	1,918.00	0.00	1,918.00		
Cr2O3	152.02			0.00		
CrO3	99.99			0.00		
Cr(OH)3	103.02			0.00	0.00	65.00
CsNO3	194.91	28.00	0.00	28.00	534.00	0.00
CsCl(SV)	168.36			0.00		
Cs2O	281.81			0.00		
spare	281.81			0.00		
Cu	63.55			0.00		
Cu(NO3)2	187.60	0.80	0.00	0.80	6.00	0.00
CuO	79.54			0.00		
Cu(OH)2	97.55			0.00	0.00	376.00
CuSO4	159.61			0.00		
Dy(NO3)3	348.58	0.00	0.00	0.00		
Dy2O3	373.00			0.00		
Dy(OH)3	213.52			0.00		

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	BD1 CONDENSATE	BD2 CHEMICAL ADD	BD2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
H2O	1,727,164	654,000			1,727,164	1,539,415	187,749
Ag	0.00				0.00	0.00	0.00
AgNO3	0.00				0.00	0.00	0.00
Ag2O	0.00				0.00	0.00	0.00
AgOH	0.70				0.70	0.00	0.70
AlF3	613.00				613.00	68.63	544.37
Al(NO3)3	0.00				0.00	0.00	0.00
Al2O3	0.00				0.00	0.00	0.00
Al(OH)3	5,852.00				5,852.00	0.00	5,852.00
Am(OH)3	0.00				0.00	0.00	0.00
Am(NO3)3	0.00				0.00	0.00	0.00
Am2O3	27.00				27.00	0.00	27.00
B2O3	0.00				0.00	0.00	0.00
Ba(NO3)2	0.00				0.00	0.00	0.00
BaO	0.00				0.00	0.00	0.00
BaSO4	303.00				303.00	0.00	303.00
C	0.00				0.00	0.00	0.00
(CH2)10	0.00				0.00	0.00	0.00
CaCO3	3,208.00				3,208.00	0.00	3,208.00
CaC2O4	0.00				0.00	0.00	0.00
CaF2	0.00				0.00	0.00	0.00
Ca(NO3)2	0.00				0.00	0.00	0.00
CaO	0.00				0.00	0.00	0.00
Ca(OH)2	0.00				0.00	0.00	0.00
Ca3(PO4)2	0.00				0.00	0.00	0.00
CaSO4	0.00				0.00	0.00	0.00
Cd(NO3)2	0.00				0.00	0.00	0.00
CdO	0.00				0.00	0.00	0.00
Cd(OH)2	1.70				1.70	0.00	1.70
Ce(NO3)3	0.00				0.00	0.00	0.00
Ce2O3	0.00				0.00	0.00	0.00
Ce(OH)3	354.00				354.00	0.00	354.00
Cm(NO3)3	0.00				0.00	0.00	0.00
Cm2O3	0.40				0.40	0.00	0.40
Cm(OH)3	0.00				0.00	0.00	0.00
Co	0.00				0.00	0.00	0.00
Co(NO3)2	0.00				0.00	0.00	0.00
CoO	0.00				0.00	0.00	0.00
Co(OH)2	0.00				0.00	0.00	0.00
Cr(NO3)3	0.00				0.00	0.00	0.00
Cr2O3	0.00				0.00	0.00	0.00
CrO3	0.00				0.00	0.00	0.00
Cr(OH)3	65.00				65.00	0.00	65.00
CsNO3	534.00				534.00	475.95	58.05
CsCl(SV)	0.00				0.00	0.00	0.00
Cs2O	0.00				0.00	0.00	0.00
spare	0.00				0.00	0.00	0.00
Cu	0.00				0.00	0.00	0.00
Cu(NO3)2	6.00				6.00	5.35	0.65
CuO	0.00				0.00	0.00	0.00
Cu(OH)2	376.00				376.00	0.00	376.00
CuSO4	0.00				0.00	0.00	0.00
Dy(NO3)3	0.00				0.00	0.00	0.00
Dy2O3	0.00				0.00	0.00	0.00
Dy(OH)3	0.00				0.00	0.00	0.00

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
H2O	1,618,628	191,743	3,000	2,364,500	408,300	848,743	
Ag				0.00	0.00	0.00	
AgNO3				0.00	0.00	0.00	
Ag2O				0.00	0.00	0.00	
AgOH				0.00	0.70	0.00	
AlF3				8.13	536.24	0.00	
Al(NO3)3				0.00	0.00	0.00	
Al2O3		8,668.60		0.00	0.00	8,668.60	
Al(OH)3				0.00	5,852.00	0.00	
Am(OH)3				0.00	0.00	0.00	
Am(NO3)3				0.00	0.00	0.00	
Am2O3				0.00	27.00	0.00	
B2O3				0.00	0.00	0.00	
Ba(NO3)2				0.00	0.00	0.00	
BaO		50.33		0.00	0.00	50.33	
BaSO4				0.00	303.00	0.00	
C				0.00	0.00	0.00	
(CH2)10				0.00	0.00	0.00	
CaCO3				0.00	3,208.00	0.00	
CaC2O4				0.00	0.00	0.00	
CaF2				0.00	0.00	0.00	
Ca(NO3)2				0.00	0.00	0.00	
CaO		615.19		0.00	0.00	615.19	
Ca(OH)2				0.00	0.00	0.00	
Ca3(PO4)2				0.00	0.00	0.00	
CaSO4				0.00	0.00	0.00	
Cd(NO3)2				0.00	0.00	0.00	
CdO				0.00	0.00	0.00	
Cd(OH)2				0.00	1.70	0.00	
Ce(NO3)3				0.00	0.00	0.00	
Ce2O3				0.00	0.00	0.00	
Ce(OH)3				0.00	354.00	0.00	
Cm(NO3)3				0.00	0.00	0.00	
Cm2O3				0.00	0.40	0.00	
Cm(OH)3				0.00	0.00	0.00	
Co				0.00	0.00	0.00	
Co(NO3)2				0.00	0.00	0.00	
CoO				0.00	0.00	0.00	
Co(OH)2				0.00	0.00	0.00	
Cr(NO3)3				0.00	0.00	0.00	
Cr2O3				0.00	0.00	0.00	
CrO3				0.00	0.00	0.00	
Cr(OH)3				0.00	65.00	0.00	
CsNO3				56.41	1.63	0.00	
CsCl(SV)				0.00	0.00	0.00	
Cs2O		384.47		0.00	0.00	384.47	
spare				0.00	0.00	0.00	
Cu				0.00	0.00	0.00	
Cu(NO3)2				0.63	0.02	0.00	
CuO				0.00	0.00	0.00	
Cu(OH)2				0.00	376.00	0.00	
CuSO4				0.00	0.00	0.00	
Dy(NO3)3				0.00	0.00	0.00	
Dy2O3				0.00	0.00	0.00	
Dy(OH)3				0.00	0.00	0.00	

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
H2O			34,148	21,084		6,400	62,574
Ag			0.00				0.00
AgNO3			0.08				0.00
Ag2O			0.00				0.00
AgOH			0.00				0.06
AlF3			0.00				0.00
Al(NO3)3			4,175.00				0.00
Al2O3			0.00				0.00
Al(OH)3			0.00				1,528.87
Am(OH)3			0.00				0.00
Am(NO3)3			0.00				0.00
Am2O3			0.00				0.00
B2O3			0.00				0.00
Ba(NO3)2			27.00				0.00
BaO			0.00				0.00
BaSO4			0.00				24.11
C			0.00				0.00
(CH2)10			0.00				0.00
CaCO3			0.00				0.00
CaC2O4			0.00				0.00
CaF2			0.00				0.00
Ca(NO3)2			30.00				0.00
CaO			0.00				0.00
Ca(OH)2			0.00				13.55
Ca3(PO4)2			0.00				0.00
CaSO4			0.00				0.00
Cd(NO3)2			0.30				0.00
CdO			0.00				0.00
Cd(OH)2			0.00				0.19
Ce(NO3)3			43.00				0.00
Ce2O3			0.00				0.00
Ce(OH)3			0.00				0.00
Cm(NO3)3			0.00				0.00
Cm2O3			0.00				0.00
Cm(OH)3			0.00				0.00
Co			0.00				0.00
Co(NO3)2			3.00				0.00
CoO			0.00				0.00
Co(OH)2			0.00				1.52
Cr(NO3)3			1,918.00				0.00
Cr2O3			0.00				0.00
CrO3			0.00				0.00
Cr(OH)3			0.00				829.70
CsNO3			28.00				28.00
CsCl(SV)			0.00				0.00
Cs2O			0.00				0.00
spare			0.00				0.00
Cu			0.00				0.00
Cu(NO3)2			0.80				0.00
CuO			0.00				0.00
Cu(OH)2			0.00				0.42
CuSO4			0.00				0.00
Dy(NO3)3			0.00				0.00
Dy2O3			0.00				0.00
Dy(OH)3			0.00				0.00

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED BD2	BD2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
H2O	1,319,617	13,029	566,956	0	5,292		0
Ag	0.00E+00		0.00E+00		0.00E+00		
AgNO3	0.00E+00		0.00E+00		0.00E+00		
Ag2O	0.00E+00		2.28E-03		7.59E-05		
AgOH	7.59E-01		0.00E+00		0.00E+00		
AlF3	5.36E+02		0.00E+00		0.00E+00		
Al(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Al2O3	8.67E+03		1.00E+02		3.35E+00		
Al(OH)3	7.38E+03		0.00E+00		0.00E+00		
Am(OH)3	0.00E+00		0.00E+00		0.00E+00		
Am(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Am2O3	2.70E+01		8.73E-02		2.91E-03		
B2O3	0.00E+00		9.77E+02		4.72E-01		
Ba(NO3)2	0.00E+00		0.00E+00		0.00E+00		
BaO	5.03E+01		1.63E-01		5.42E-03		
BaSO4	3.27E+02		1.06E+00		3.53E-02		
C	0.00E+00		0.00E+00		0.00E+00		
(CH2)10	0.00E+00		0.00E+00		0.00E+00		
CaCO3	3.21E+03		0.00E+00		0.00E+00		
CaC2O4	0.00E+00		0.00E+00		0.00E+00		
CaF2	0.00E+00		0.00E+00		0.00E+00		
Ca(NO3)2	0.00E+00		0.00E+00		0.00E+00		
CaO	6.15E+02		7.67E+00		2.56E-01		
Ca(OH)2	1.35E+01		0.00E+00		0.00E+00		
Ca3(PO4)2	0.00E+00		0.00E+00		0.00E+00		
CaSO4	0.00E+00		0.00E+00		0.00E+00		
Cd(NO3)2	0.00E+00		0.00E+00		0.00E+00		
CdO	0.00E+00		9.48E-02		1.83E-02		
Cd(OH)2	1.89E-00		0.00E+00		0.00E+00		
Ce(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		
Ce2O3	0.00E+00		9.83E-01		3.28E-02		
Ce(OH)3	3.54E+02		0.00E+00		0.00E+00		
Cm(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Cm2O3	4.00E-01		1.29E-03		4.31E-05		
Cm(OH)3	0.00E+00		0.00E+00		0.00E+00		
Co	0.00E+00		0.00E+00		0.00E+00		
Co(NO3)2	0.00E+00		0.00E+00		0.00E+00		
CoO	0.00E+00		3.97E-03		1.32E-04		
Co(OH)2	1.52E+00		0.00E+00		0.00E+00		
Cr(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Cr2O3	0.00E+00		2.15E+00		7.18E-02		
CrO3	0.00E+00		0.00E+00		0.00E+00		
Cr(OH)3	8.95E+02		0.00E+00		0.00E+00		
CsNO3	2.96E+01		0.00E+00		0.00E+00		
CsCl(SV)	0.00E+00		0.00E+00		0.00E+00		
Cs2O	3.84E+02		6.90E+00		1.33E+00		
spare	0.00E+00		0.00E+00		0.00E+00		
Cu	0.00E+00		0.00E+00		0.00E+00		
Cu(NO3)2	1.84E-02		0.00E+00		0.00E+00		
CuO	0.00E+00		9.92E-01		3.31E-02		
Cu(OH)2	3.76E+02		0.00E+00		0.00E+00		
CuSO4	0.00E+00		0.00E+00		0.00E+00		
Dy(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Dy2O3	0.00E+00		3.46E-06		1.15E-07		
Dy(OH)3	1.23E-03		0.00E+00		0.00E+00		

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MADE-UP MELTER FEED	MELTER FEED
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
H2O		1,904,894	240,163	1,664,731	374,838	647,574	743,811
Ag		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
AgNO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Ag2O		2.35E-03	2.35E-03	3.51E-06		2.35E-03	2.35E-03
AgOH		7.59E-01	7.59E-01	1.13E-03		7.59E-01	7.59E-01
AlF3		5.36E+02	5.36E+02	8.01E-01		5.36E+02	5.36E+02
Al(NO3)3		0.00E+00	0.00E+00	0.00E+00		6.54E+04	6.54E+04
Al2O3		8.77E+03	8.77E+03	1.31E+01		8.77E+03	8.77E+03
Al(OH)3		7.38E+03	7.38E+03	1.10E+01	2.64E+04	9.80E+03	9.80E+03
Am(OH)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Am(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Am2O3		2.71E+01	2.71E+01	4.05E-02		2.71E+01	2.71E+01
B2O3		9.78E+02	9.78E+02	1.46E+00		9.78E+02	9.78E+02
Ba(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
BaO		5.05E+01	5.05E+01	7.55E-02		5.05E+01	5.05E+01
BaSO4		3.28E+02	3.28E+02	4.90E-01		3.28E+02	3.28E+02
C		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
(CH2)10		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
CaCO3		3.21E+03	3.21E+03	4.79E+00	-8.73E+01	3.21E+03	3.21E+03
CaC2O4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
CaF2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Ca(NO3)2		0.00E+00	0.00E+00	0.00E+00		-1.43E+02	-1.43E+02
CaO		6.23E+02	6.23E+02	9.31E-01		6.23E+02	6.23E+02
Ca(OH)2		1.35E+01	1.35E+01	2.02E-02		1.35E+01	1.35E+01
Ca3(PO4)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
CaSO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cd(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
CdO		1.13E-01	1.13E-01	1.69E-04		1.13E-01	1.13E-01
Cd(OH)2		1.89E+00	1.89E+00	2.82E-03		1.89E+00	1.89E+00
Ce(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Ce2O3		1.02E+00	1.02E+00	1.52E-03		1.02E+00	1.02E+00
Ce(OH)3		3.54E+02	3.54E+02	5.29E-01		3.54E+02	3.54E+02
Cm(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cm2O3		4.01E-01	4.01E-01	6.00E-04		4.01E-01	4.01E-01
Cm(OH)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Co		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Co(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
CoO		4.10E-03	4.10E-03	6.13E-06		4.10E-03	4.10E-03
Co(OH)2		1.52E+00	1.52E+00	2.28E-03		1.52E+00	1.52E+00
Cr(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cr2O3		2.23E+00	2.23E+00	3.33E-03		2.23E+00	2.23E+00
CrO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cr(OH)3		8.95E+02	8.95E+02	1.34E+00		8.95E+02	8.95E+02
CsNO3		2.96E+01	2.96E+01	4.43E-02		2.96E+01	2.96E+01
CsCl(SV)		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cs2O		3.93E+02	3.93E+02	5.87E-01		3.93E+02	3.93E+02
spare		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cu		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cu(NO3)2		1.84E-02	1.84E-02	2.74E-05		1.84E-02	1.84E-02
CuO		1.03E+00	1.03E+00	1.53E-03		1.03E+00	1.03E+00
Cu(OH)2		3.76E+02	3.76E+02	5.62E-01		3.76E+02	3.76E+02
CuSO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Dy(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Dy2O3		3.57E-06	3.57E-06	5.34E-09		3.57E-06	3.57E-06
Dy(OH)3		1.23E-03	1.23E-03	1.83E-06		1.23E-03	1.23E-03

STREAM NUMBER	41	42		43	44	45	46
STREAM NAME	AIR INLEAKAGE TO SFCM	GLASS PRODUCTION		FILLED GLASS CANISTER (/ CANISTER)	SFCM OFF GAS	FILM COOLER AIR	PRESSURE CONTROL AIR
COMPONENT KG	kg	kg		kg	kg	kg	kg
H2O	24,337	0	H2O	0	857,538	68,143	21,903
Ag		0.00	Ag	0.0000	0.00E+00		
AgNO3		0.00	AgNO3	0.0000	0.00E+00		
Ag2O		0.70	Ag2O	0.0028	2.35E-03		
AgOH		0.00	AgOH	0.0000	0.00E+00		
AlF3		0.00	AlF3	0.0000	0.00E+00		
Al(NO3)3		0.00	Al(NO3)3	0.0000	0.00E+00		
Al2O3		31,051.02	Al2O3	122.0563	1.04E+02		
Al(OH)3		0.00	Al(OH)3	0.0000	0.00E+00		
Am(OH)3		0.00	Am(OH)3	0.0000	0.00E+00		
Am(NO3)3		0.00	Am(NO3)3	0.0000	0.00E+00		
Am2O3		27.00	Am2O3	0.1061	9.03E-02		
B2O3		47,898.47	B2O3	188.2807	9.78E+02		
Ba(NO3)2		0.00	Ba(NO3)2	0.0000	0.00E+00		
BaO		50.33	BaO	0.1979	1.68E-01		
BaSO4		327.11	BaSO4	1.2858	1.09E+00		
C		0.00	C	0.0000	0.00E+00		
(CH2)10		0.00	(CH2)10	0.0000	0.00E+00		
CaCO3		0.00	CaCO3	0.0000	0.00E+00		
CaC2O4		0.00	CaC2O4	0.0000	0.00E+00		
CaF2		0.00	CaF2	0.0000	0.00E+00		
Ca(NO3)2		0.00	Ca(NO3)2	0.0000	0.00E+00		
CaO		2,373.93	CaO	9.3315	7.94E+00		
Ca(OH)2		0.00	Ca(OH)2	0.0000	0.00E+00		
Ca3(PO4)2		0.00	Ca3(PO4)2	0.0000	0.00E+00		
CaSO4		0.00	CaSO4	0.0000	0.00E+00		
Cd(NO3)2		0.00	Cd(NO3)2	0.0000	0.00E+00		
CdO		1.02	CdO	0.0040	1.14E-01		
Cd(OH)2		0.00	Cd(OH)2	0.0000	0.00E+00		
Ce(NO3)3		0.00	Ce(NO3)3	0.0000	0.00E+00		
Ce2O3		303.96	Ce2O3	1.1948	1.02E+00		
Ce(OH)3		0.00	Ce(OH)3	0.0000	0.00E+00		
Cm(NO3)3		0.00	Cm(NO3)3	0.0000	0.00E+00		
Cm2O3		0.40	Cm2O3	0.0016	1.34E-03		
Cm(OH)3		0.00	Cm(OH)3	0.0000	0.00E+00		
Co		0.00	Co	0.0000	0.00E+00		
Co(NO3)2		0.00	Co(NO3)2	0.0000	0.00E+00		
CoO		1.23	CoO	0.0048	4.11E-03		
Co(OH)2		0.00	Co(OH)2	0.0000	0.00E+00		
Cr(NO3)3		0.00	Cr(NO3)3	0.0000	0.00E+00		
Cr2O3		666.25	Cr2O3	2.6189	2.23E+00		
CrO3		0.00	CrO3	0.0000	0.00E+00		
Cr(OH)3		0.00	Cr(OH)3	0.0000	0.00E+00		
CsNO3		0.00	CsNO3	0.0000	0.00E+00		
CsCl(SV)		0.00	CsCl(SV)	0.0000	0.00E+00		
Cs2O		405.85	Cs2O	1.5953	8.28E+00		
spare		0.00	spare	0.0000	0.00E+00		
Cu		0.00	Cu	0.0000	0.00E+00		
Cu(NO3)2		0.00	Cu(NO3)2	0.0000	0.00E+00		
CuO		306.93	CuO	1.2065	1.03E+00		
Cu(OH)2		0.00	Cu(OH)2	0.0000	0.00E+00		
CuSO4		0.00	CuSO4	0.0000	0.00E+00		
Dy(NO3)3		0.00	Dy(NO3)3	0.0000	0.00E+00		
Dy2O3		0.01	Dy2O3	0.0000	3.58E-06		
Dy(OH)3		0.00	Dy(OH)3	0.0000	0.00E+00		

STREAM NUMBER	47	48	49	50	51	52	53
STREAM NAME	OFF GAS TO SBS	SBS CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD CHEMICAL ADD	OGD OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
H2O	947,585		1,217	413,937	69,534		483,471
Ag	0.00E+00			0.00E+00			0.00E+00
AgNO3	0.00E+00			0.00E+00			0.00E+00
Ag2O	2.35E-03			7.85E-05			7.85E-05
AgOH	0.00E+00			0.00E+00			0.00E+00
AlF3	0.00E+00			0.00E+00			0.00E+00
Al(NO3)3	0.00E+00			0.00E+00			0.00E+00
Al2O3	1.04E+02			3.46E+00			3.46E+00
Al(OH)3	0.00E+00			0.00E+00			0.00E+00
Am(OH)3	0.00E+00			0.00E+00			0.00E+00
Am(NO3)3	0.00E+00			0.00E+00			0.00E+00
Am2O3	9.03E-02			3.01E-03			3.01E-03
B2O3	9.78E+02			4.89E-01			4.89E-01
Ba(NO3)2	0.00E+00			0.00E+00			0.00E+00
BaO	1.68E-01			5.61E-03			5.61E-03
BaSO4	1.09E+00			3.65E-02			3.65E-02
C	0.00E+00			0.00E+00			0.00E+00
(CH2)10	0.00E+00			0.00E+00			0.00E+00
CaCO3	0.00E+00			0.00E+00			0.00E+00
CaC2O4	0.00E+00			0.00E+00			0.00E+00
CaF2	0.00E+00			0.00E+00			0.00E+00
Ca(NO3)2	0.00E+00			0.00E+00			0.00E+00
CaO	7.94E+00			2.65E-01			2.65E-01
Ca(OH)2	0.00E+00			0.00E+00			0.00E+00
Ca3(PO4)2	0.00E+00			0.00E+00			0.00E+00
CaSO4	0.00E+00			0.00E+00			0.00E+00
Cd(NO3)2	0.00E+00			0.00E+00			0.00E+00
CdO	1.14E-01			1.90E-02			1.90E-02
Cd(OH)2	0.00E+00			0.00E+00			0.00E+00
Ce(NO3)3	0.00E+00			0.00E+00			0.00E+00
Ce2O3	1.02E+00			3.39E-02			3.39E-02
Ce(OH)3	0.00E+00			0.00E+00			0.00E+00
Cm(NO3)3	0.00E+00			0.00E+00			0.00E+00
Cm2O3	1.34E-03			4.46E-05			4.46E-05
Cm(OH)3	0.00E+00			0.00E+00			0.00E+00
Co	0.00E+00			0.00E+00			0.00E+00
Co(NO3)2	0.00E+00			0.00E+00			0.00E+00
CoO	4.11E-03			1.37E-04			1.37E-04
Co(OH)2	0.00E+00			0.00E+00			0.00E+00
Cr(NO3)3	0.00E+00			0.00E+00			0.00E+00
Cr2O3	2.23E+00			7.43E-02			7.43E-02
CrO3	0.00E+00			0.00E+00			0.00E+00
Cr(OH)3	0.00E+00			0.00E+00			0.00E+00
CsNO3	0.00E+00			0.00E+00			0.00E+00
CsCl(SV)	0.00E+00			0.00E+00			0.00E+00
Cs2O	8.28E+00			1.38E+00			1.38E+00
spare	0.00E+00			0.00E+00			0.00E+00
Cu	0.00E+00			0.00E+00			0.00E+00
Cu(NO3)2	0.00E+00			0.00E+00			0.00E+00
CuO	1.03E+00			3.42E-02			3.42E-02
Cu(OH)2	0.00E+00			0.00E+00			0.00E+00
CuSO4	0.00E+00			0.00E+00			0.00E+00
Dy(NO3)3	0.00E+00			0.00E+00			0.00E+00
Dy2O3	3.58E-06			1.19E-07			1.19E-07
Dy(OH)3	0.00E+00			0.00E+00			0.00E+00

STREAM NUMBER	54	55	56	57	58
STREAM NAME	HEME CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS	HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg
H2O	4,992	483,471	483,471	483,471	483,471
Ag		0.00E+00	0.00E+00	0.00E+00	0.00E+00
AgNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag2O		2.62E-06	2.62E-06	2.62E-12	2.62E-12
AgOH		0.00E+00	0.00E+00	0.00E+00	0.00E+00
AlF3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Al(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Al2O3		1.15E-01	1.15E-01	1.15E-07	1.15E-07
Al(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am2O3		1.00E-04	1.00E-04	1.00E-10	1.00E-10
B2O3		1.63E-02	1.63E-02	1.63E-08	1.63E-08
Ba(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaO		1.87E-04	1.87E-04	1.87E-10	1.87E-10
BaSO4		1.22E-03	1.22E-03	1.22E-09	1.22E-09
C		0.00E+00	0.00E+00	0.00E+00	0.00E+00
(CH2)10		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaCO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaC2O4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaF2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaO		8.82E-03	8.82E-03	8.82E-09	8.82E-09
Ca(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca3(PO4)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaSO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cd(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CdO		6.32E-04	6.32E-04	6.32E-10	6.32E-10
Cd(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce2O3		1.13E-03	1.13E-03	1.13E-09	1.13E-09
Ce(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm2O3		1.49E-06	1.49E-06	1.49E-12	1.49E-12
Cm(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CoO		4.56E-06	4.56E-06	4.56E-12	4.56E-12
Co(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr2O3		2.48E-03	2.48E-03	2.48E-09	2.48E-09
CrO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CsNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CsCl(SV)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs2O		4.60E-02	4.60E-02	4.60E-08	4.60E-08
spare		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CuO		1.14E-03	1.14E-03	1.14E-09	1.14E-09
Cu(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CuSO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy2O3		3.98E-09	3.98E-09	3.98E-15	3.98E-15
Dy(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER		1	2	3	4	5
STREAM NAME		THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE 1/31/89
COMPONENT KG	MOLECULAR WEIGHT	kg	kg	kg	kg	kg
Eu(NO3)3	338.07	1.00	0.00	1.00		
Eu2O3	351.92			0.00		
Eu(OH)3	202.96			0.00	0.00	7.50
Fe	55.85			0.00		
Fe(NO3)3	242.02	8,462.00	0.00	8,462.00	43.00	0.00
FeO	71.85			0.00		
Fe(OH)3	106.86			0.00	0.00	66,040.00
Fe2O3	159.69			0.00		
FePO4	150.85			0.00	0.00	6,351.00
Gd(NO3)3	343.36	0.40	0.00	0.40		
Gd2O3	362.50			0.00		
Gd(OH)3	208.27			0.00	0.00	1.70
Ge(NO3)4	320.59	0.02	0.00	0.02		
GeO2	104.59			0.00		
Ge(OH)4	140.59			0.00		
H3BO3	61.83	480.00	0.00	480.00		
H2CO3	62.03			0.00	9.00	0.00
H2C2O4	90.00			0.00		
HCl	36.46			0.00		
HF	20.01			0.00		
HNO3	63.02	2,805.00	0.00	2,805.00		
H2SO4	98.07			0.00		
Hg	200.59			0.00		
Hg2Cl2	472.09			0.00		
Hg2I2	654.99			0.00		
Hg(NO3)2	324.63			0.00		
HgO	216.61			0.00		
Hg(OH)2	234.59			0.00	0.00	23.00
In(NO3)3	300.88	0.04	0.00	0.04		
In2O3	277.64			0.00		
In(OH)3	165.84			0.00	0.00	0.30
K2CrO4	194.20			0.00	5,113.00	0.00
KMnO4	197.12	98.00	0.00	98.00		
KNO3	101.10	191.00	0.00	191.00	36,274.00	0.00
K2O	94.20			0.00		
KOH	56.11			0.00		
La(NO3)3	325.02	22.00	0.00	22.00		
La2O3	325.82			0.00		
La(OH)3	189.93			0.00	0.00	185.00
LiOH	23.95			0.00		
LiNO3	68.94			0.00	14.00	0.00
Li2O	29.88			0.00		
MgCO3	84.32			0.00	0.00	826.00
Mg(NO3)2	148.41	57.00	0.00	57.00	2.00	0.00
MgO	40.32			0.00		
Mg(OH)2	58.33			0.00		
Mn(NO3)2	170.05			0.00		
MnO	70.94			0.00		
MnO2	86.94			0.00	0.00	4,581.00
Mn(OH)2	88.95			0.00		
MoO3	143.95			0.00		
Na3BO3	127.78			0.00	597.00	0.00
Li3PO4	115.80			0.00		
Na2B4O7	201.27			0.00		
Na2C2O4	134.01			0.00		
Na2CO3	106.00			0.00	25,249.00	0.00
NaCl	58.45	50.00	0.00	50.00	4,684.00	0.00
spare	58.45			0.00		

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	8D1 CONDENSATE	8D2 CHEMICAL ADD	8D2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Eu(NO3)3	0.00				0.00	0.00	0.00
Eu2O3	0.00				0.00	0.00	0.00
Eu(OH)3	7.50				7.50	0.00	7.50
Fe	0.00				0.00	0.00	0.00
Fe(NO3)3	43.00				43.00	38.33	4.67
FeO	0.00				0.00	0.00	0.00
Fe(OH)3	66,040.00				66,040.00	0.00	66,040.00
Fe2O3	0.00	0.00			0.00	0.00	0.00
FePO4	6,351.00				6,351.00	0.00	6,351.00
Gd(NO3)3	0.00				0.00	0.00	0.00
Gd2O3	0.00				0.00	0.00	0.00
Gd(OH)3	1.70				1.70	0.00	1.70
Ge(NO3)4	0.00				0.00	0.00	0.00
GeO2	0.00				0.00	0.00	0.00
Ge(OH)4	0.00				0.00	0.00	0.00
H3BO3	0.00				0.00	0.00	0.00
H2CO3	9.00				9.00	8.02	0.98
H2C2O4	0.00				0.00	0.00	0.00
HCl	0.00				0.00	0.00	0.00
HF	0.00				0.00	0.00	0.00
HNO3	0.00				0.00	0.00	0.00
H2SO4	0.00				0.00	0.00	0.00
Hg	0.00				0.00	0.00	0.00
Hg2Cl2	0.00				0.00	0.00	0.00
Hg2I2	0.00				0.00	0.00	0.00
Hg(NO3)2	0.00				0.00	0.00	0.00
HgO	0.00				0.00	0.00	0.00
Hg(OH)2	23.00				23.00	0.00	23.00
In(NO3)3	0.00				0.00	0.00	0.00
In2O3	0.00				0.00	0.00	0.00
In(OH)3	0.30				0.30	0.00	0.30
K2CrO4	5,113.00				5,113.00	4,557.20	555.80
KMnO4	0.00				0.00	0.00	0.00
KNO3	36,274.00				36,274.00	32,330.89	3,943.11
K2O	0.00				0.00	0.00	0.00
KOH	0.00				0.00	0.00	0.00
La(NO3)3	0.00				0.00	0.00	0.00
La2O3	0.00				0.00	0.00	0.00
La(OH)3	185.00				185.00	0.00	185.00
LiOH	0.00				0.00	0.00	0.00
LiNO3	14.00				14.00	12.48	1.52
Li2O	0.00				0.00	0.00	0.00
MgCO3	826.00				826.00	0.00	826.00
Mg(NO3)2	2.00				2.00	1.78	0.22
MgO	0.00				0.00	0.00	0.00
Mg(OH)2	0.00				0.00	0.00	0.00
Mn(NO3)2	0.00				0.00	0.00	0.00
MnO	0.00				0.00	0.00	0.00
MnO2	4,581.00				4,581.00	0.00	4,581.00
Mn(OH)2	0.00				0.00	0.00	0.00
MoO3	0.00				0.00	0.00	0.00
Na3BO3	597.00				597.00	532.10	64.90
Li3PO4	0.00				0.00	0.00	0.00
Na2B4O7	0.00				0.00	0.00	0.00
Na2C2O4	0.00				0.00	0.00	0.00
Na2CO3	25,249.00				25,249.00	22,504.35	2,744.65
NaCl	4,684.00				4,684.00	4,174.83	509.17
spare	0.00				0.00	0.00	0.00

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Eu(NO3)3				0.00	0.00	0.00	
Eu2O3				0.00	0.00	0.00	
Eu(OH)3				0.00	7.50	0.00	
Fe				0.00	0.00	0.00	
Fe(NO3)3				4.54	0.13	0.00	
FeO				0.00	0.00	0.00	
Fe(OH)3				0.00	66,040.00	0.00	
Fe2O3		1,957.43		0.00	0.00	1,957.43	
FePO4				0.00	6,351.00	0.00	
Gd(NO3)3				0.00	0.00	0.00	
Gd2O3				0.00	0.00	0.00	
Gd(OH)3				0.00	1.70	0.00	
Ge(NO3)4				0.00	0.00	0.00	
GeO2				0.00	0.00	0.00	
Ge(OH)4				0.00	0.00	0.00	
H3BO3				0.00	0.00	0.00	
H2CO3				0.95	0.03	0.00	
H2C2O4				0.00	0.00	0.00	
HCl				0.00	0.00	0.00	
HF				0.00	0.00	0.00	
HNO3				0.00	0.00	0.00	
H2SO4				0.00	0.00	0.00	
Hg				0.00	0.00	0.00	
Hg2Cl2				0.00	0.00	0.00	
Hg2I2				0.00	0.00	0.00	
Hg(NO3)2				0.00	0.00	0.00	
HgO				0.00	0.00	0.00	
Hg(OH)2				0.00	23.00	0.00	
In(NO3)3				0.00	0.00	0.00	
In2O3				0.00	0.00	0.00	
In(OH)3				0.00	0.30	0.00	
K2CrO4				540.15	15.65	0.00	
KMnO4				0.00	0.00	0.00	
KNO3				3,832.09	111.01	0.00	
K2O				0.00	0.00	0.00	
KOH				0.00	0.00	0.00	
La(NO3)3				0.00	0.00	0.00	
La2O3				0.00	0.00	0.00	
La(OH)3				0.00	185.00	0.00	
LiOH				0.00	0.00	0.00	
LiNO3				1.48	0.04	0.00	
Li2O				0.00	0.00	0.00	
MgCO3				0.00	826.00	0.00	
Mg(NO3)2				0.21	0.01	0.00	
MgO		391.49		0.00	0.00	391.49	
Mg(OH)2				0.00	0.00	0.00	
Mn(NO3)2				0.00	0.00	0.00	
MnO				0.00	0.00	0.00	
MnO2				0.00	4,581.00	0.00	
Mn(OH)2				0.00	0.00	0.00	
MoO3		16.78		0.00	0.00	16.78	
Na3BO3				63.07	1.83	0.00	
Li3PO4				0.00	0.00	0.00	
Na2B4O7				0.00	0.00	0.00	
Na2C2O4				0.00	0.00	0.00	
Na2CO3				2,667.38	77.27	0.00	
NaCl				494.83	14.34	0.00	
spare				0.00	0.00	0.00	

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
$Eu(NO_3)_3$			1.00				0.00
Eu_2O_3			0.00				0.00
$Eu(OH)_3$			0.00				0.60
Fe			0.00				0.00
$Fe(NO_3)_3$			8,462.00				0.00
FeO			0.00				0.00
$Fe(OH)_3$			0.00				3,736.26
Fe_2O_3			0.00				0.00
$FePO_4$			0.00				0.00
$Gd(NO_3)_3$			0.40				0.00
Gd_2O_3			0.00				0.00
$Gd(OH)_3$			0.00				0.24
$Ge(NO_3)_4$			0.02				0.00
GeO_2			0.00				0.00
$Ge(OH)_4$			0.00				0.01
H_3BO_3			480.00				0.00
H_2CO_3			0.00				0.00
$H_2C_2O_4$			0.00				0.00
HCl			0.00				0.00
HF			0.00				0.00
HNO_3			2,805.00				0.00
H_2SO_4			0.00				0.00
Hg			0.00				0.00
Hg_2Cl_2			0.00				0.00
Hg_2I_2			0.00				0.00
$Hg(NO_3)_2$			0.00				0.00
HgO			0.00				0.00
$Hg(OH)_2$			0.00				0.00
$In(NO_3)_3$			0.04				0.00
In_2O_3			0.00				0.00
$In(OH)_3$			0.00				0.02
K_2CrO_4			0.00				0.00
$KMnO_4$			98.00				98.00
KNO_3			191.00				191.00
K_2O			0.00				0.00
KOH			0.00				0.00
$La(NO_3)_3$			22.00				0.00
La_2O_3			0.00				0.00
$La(OH)_3$			0.00				12.86
LiOH			0.00				0.00
$LiNO_3$			0.00				0.00
Li_2O			0.00				0.00
$MgCO_3$			0.00				0.00
$Mg(NO_3)_2$			57.00				0.00
MgO			0.00				0.00
$Mg(OH)_2$			0.00				22.40
$Mn(NO_3)_2$			0.00				0.00
MnO			0.00				0.00
MnO_2			0.00				0.00
$Mn(OH)_2$			0.00				0.00
MoO_3			0.00				0.00
Na_3BO_3			0.00				991.98
Li_3PO_4			0.00				0.00
$Na_2B_4O_7$			0.00				0.00
$Na_2C_2O_4$			0.00				0.00
Na_2CO_3			0.00				0.00
NaCl			50.00				50.00
spare			0.00				0.00

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED 8D2	8D2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Eu(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Eu2O3	0.00E+00		2.46E-02		8.22E-04		
Eu(OH)3	8.10E+00		0.00E+00		0.00E+00		
Fe	0.00E+00		0.00E+00		0.00E+00		
Fe(NO3)3	1.32E-01		0.00E+00		0.00E+00		
FeO	0.00E+00		0.00E+00		0.00E+00		
Fe(OH)3	6.98E+04		0.00E+00	0.00E+00	0.00E+00		
Fe2O3	1.96E+03		1.86E+02		6.20E+00		
FePO4	6.35E+03		0.00E+00		0.00E+00		
Gd(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Gd2O3	0.00E+00		5.47E-03		1.82E-04		
Gd(OH)3	1.94E+00		0.00E+00		0.00E+00		
Ge(NO3)4	0.00E+00		0.00E+00		0.00E+00		
GeO2	0.00E+00		2.11E-05		7.03E-07		
Ge(OH)4	8.77E-03		0.00E+00		0.00E+00		
H3BO3	0.00E+00		0.00E+00		0.00E+00		
H2CO3	2.75E-02		0.00E+00		0.00E+00		
H2C2O4	0.00E+00		0.00E+00		0.00E+00		
HCl	0.00E+00		0.00E+00		0.00E+00		
HF	0.00E+00		0.00E+00		0.00E+00		
HNO3	0.00E+00		3.57E+02		3.33E+00		
H2SO4	0.00E+00		0.00E+00		0.00E+00		
Hg	0.00E+00		5.45E+00		1.05E+00		
Hg2Cl2	0.00E+00		0.00E+00		0.00E+00		
Hg2I2	0.00E+00		0.00E+00		0.00E+00		
Hg(NO3)2	0.00E+00		0.00E+00		0.00E+00		
HgO	0.00E+00		0.00E+00		0.00E+00		
Hg(OH)2	2.30E+01		0.00E+00		0.00E+00		
In(NO3)3	0.00E+00		0.00E+00		0.00E+00		
In2O3	0.00E+00		8.72E-04		2.91E-05		
In(OH)3	3.22E-01		0.00E+00		0.00E+00		
K2CrO4	1.56E+01		0.00E+00		0.00E+00		
KMnO4	9.80E+01		0.00E+00		0.00E+00		
KNO3	3.02E+02		0.00E+00		0.00E+00		
K2O	0.00E+00		5.73E+01		1.91E+00		
KOH	0.00E+00		0.00E+00		0.00E+00		
La(NO3)3	0.00E+00		0.00E+00		0.00E+00		
La2O3	0.00E+00		5.49E-01		1.83E-02		
La(OH)3	1.98E+02		0.00E+00		0.00E+00		
LiOH	0.00E+00		0.00E+00		0.00E+00		
LiNO3	4.28E-02		0.00E+00		0.00E+00		
Li2O	0.00E+00		4.84E+01		1.61E+00		
MgCO3	8.26E+02		0.00E+00		0.00E+00		
Mg(NO3)2	6.12E-03		0.00E+00		0.00E+00		
MgO	3.91E+02		1.38E+01		4.60E-01		
Mg(OH)2	2.24E+01		0.00E+00		0.00E+00		
Mn(NO3)2	0.00E+00		0.00E+00		0.00E+00		
MnO	0.00E+00		1.53E+01		5.12E-01		
MnO2	4.58E+03		0.00E+00		0.00E+00		
Mn(OH)2	0.00E+00		0.00E+00		0.00E+00		
MoO3	1.68E+01		5.37E-01		2.73E-02		
Na3BO3	9.94E+02		0.00E+00		0.00E+00		
Li3PO4	0.00E+00		0.00E+00		0.00E+00		
Na2B4O7	0.00E+00		0.00E+00		0.00E+00		
Na2C2O4	0.00E+00		0.00E+00		0.00E+00		0.00E+00
Na2CO3	7.73E+01		0.00E+00		0.00E+00		
NaCl	6.43E+01		1.78E+01		3.45E+00		
spare	0.00E+00		0.00E+00		0.00E+00		

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MADE-UP MELTER FEED	MELTER FEED
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Eu(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Eu2O3		2.55E-02	2.55E-02	3.81E-05		2.55E-02	2.55E-02
Eu(OH)3		8.10E+00	8.10E+00	1.21E-02		8.10E+00	8.10E+00
Fe		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Fe(NO3)3		1.32E-01	1.32E-01	1.97E-04		1.32E-01	1.32E-01
FeO		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Fe(OH)3		6.98E+04	6.98E+04	1.04E+02		6.98E+04	6.98E+04
Fe2O3		2.15E+03	2.15E+03	3.21E+00	8.90E+01	2.24E+03	2.24E+03
FePO4		6.35E+03	6.35E+03	9.49E+00		6.35E+03	6.35E+03
Gd(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Gd2O3		5.65E-03	5.65E-03	8.44E-06		5.65E-03	5.65E-03
Gd(OH)3		1.94E+00	1.94E+00	2.90E-03		1.94E+00	1.94E+00
Ge(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
GeO2		2.18E-05	2.18E-05	3.26E-08		2.18E-05	2.18E-05
Ge(OH)4		8.77E-03	8.77E-03	1.31E-05		8.77E-03	8.77E-03
H3BO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
H2CO3		2.75E-02	2.75E-02	4.12E-05		NEGLIGIBLE	NEGLIGIBLE
H2C2O4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
HCl		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
HF		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
HNO3		3.61E+02	0.00E+00	5.39E-01	1.58E+05	NEGLIGIBLE	NEGLIGIBLE
H2SO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Hg		6.51E+00	6.51E+00	9.72E-03		6.51E+00	6.51E+00
Hg2Cl2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Hg2I2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Hg(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
HgO		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Hg(OH)2		2.30E+01	2.30E+01	3.44E-02		2.30E+01	2.30E+01
In(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
In2O3		9.01E-04	9.01E-04	1.35E-06		9.01E-04	9.01E-04
In(OH)3		3.22E-01	3.22E-01	4.81E-04		3.22E-01	3.22E-01
K2CrO4		1.56E+01	1.56E+01	2.34E-02		1.56E+01	1.56E+01
KMnO4		9.80E+01	9.80E+01	1.46E-01		9.80E+01	9.80E+01
KNO3		3.02E+02	3.02E+02	4.51E-01		3.79E+04	3.79E+04
K2O		5.92E+01	5.92E+01	8.84E-02		5.92E+01	5.92E+01
KOH		0.00E+00	0.00E+00	0.00E+00	2.09E+04	0.00E+00	0.00E+00
La(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
La2O3		5.67E-01	5.67E-01	8.47E-04		5.67E-01	5.67E-01
La(OH)3		1.98E+02	1.98E+02	2.96E-01		1.98E+02	1.98E+02
LiOH		0.00E+00	0.00E+00	0.00E+00	2.40E+04	0.00E+00	0.00E+00
LiNO3		4.28E-02	4.28E-02	6.40E-05		6.90E+04	6.90E+04
Li2O		5.00E+01	5.00E+01	7.47E-02		5.00E+01	5.00E+01
MgCO3		8.26E+02	8.26E+02	1.23E+00		8.26E+02	8.26E+02
Mg(NO3)2		6.12E-03	6.12E-03	9.15E-06		1.28E+04	1.28E+04
MgO		4.06E+02	4.06E+02	6.06E-01		4.06E+02	4.06E+02
Mg(OH)2		2.24E+01	2.24E+01	3.35E-02	5.02E+03	2.24E+01	2.24E+01
Mn(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
MnO		1.59E+01	1.59E+01	2.37E-02		1.59E+01	1.59E+01
MnO2		4.58E+03	4.58E+03	6.85E+00	2.04E+03	6.62E+03	6.62E+03
Mn(OH)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
MoO3		1.73E+01	1.73E+01	2.59E-02		1.73E+01	1.73E+01
Na3BO3		9.94E+02	9.94E+02	1.49E+00		9.94E+02	9.94E+02
Li3PO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Na2B4O7		0.00E+00	0.00E+00	0.00E+00	6.88E+04	6.88E+04	6.88E+04
Na2C2O4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Na2CO3		7.73E+01	7.73E+01	1.15E-01		7.73E+01	7.73E+01
NaCl		8.56E+01	8.56E+01	1.28E-01		8.56E+01	8.56E+01
spare		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00

STREAM NUMBER	41	42		43	44	45	46
STREAM NAME	AIR INLEAKAGE TO SFCM	GLASS PRODUCTION		FILLED GLASS CANISTER (/ CANISTER)	SFCM OFF GAS	FILM COOLER AIR	PRESSURE CONTROL AIR
COMPONENT KG	kg	kg		kg	kg	kg	kg
Eu(NO3)3		0.00	Eu(NO3)3	0.0000	0.00E+00		
Eu2O3		7.62	Eu2O3	0.0300	2.55E-02		
Eu(OH)3		0.00	Eu(OH)3	0.0000	0.00E+00		
Fe		0.00	Fe	0.0000	0.00E+00		
Fe(NO3)3		0.00	Fe(NO3)3	0.0000	0.00E+00		
FeO		0.00	FeO	0.0000	0.00E+00		
Fe(OH)3		0.00	Fe(OH)3	0.0000	0.00E+00		
Fe2O3		57,544.10	Fe2O3	226.1960	1.92E+02		
FePO4		0.00	FePO4	0.0000	0.00E+00		
Gd(NO3)3		0.00	Gd(NO3)3	0.0000	0.00E+00		
Gd2O3		1.69	Gd2O3	0.0066	5.65E-03		
Gd(OH)3		0.00	Gd(OH)3	0.0000	0.00E+00		
Ge(NO3)4		0.00	Ge(NO3)4	0.0000	0.00E+00		
GeO2		0.01	GeO2	0.0000	2.18E-05		
Ge(OH)4		0.00	Ge(OH)4	0.0000	0.00E+00		
H3BO3		0.00	H3BO3	0.0000	0.00E+00		
H2CO3		0.00	H2CO3	0.0000	0.00E+00		
H2C2O4		0.00	H2C2O4	0.0000	0.00E+00		
HCl		0.00	HCl	0.0000	0.00E+00		
HF		0.00	HF	0.0000	0.00E+00		
HNO3		0.00	HNO3	0.0000	0.00E+00		
H2SO4		0.00	H2SO4	0.0000	0.00E+00		
Hg		19.63	Hg	0.0772	6.54E+00		
Hg2Cl2		0.00	Hg2Cl2	0.0000	0.00E+00		
Hg2I2		0.00	Hg2I2	0.0000	0.00E+00		
Hg(NO3)2		0.00	Hg(NO3)2	0.0000	0.00E+00		
HgO		0.00	HgO	0.0000	0.00E+00		
Hg(OH)2		0.00	Hg(OH)2	0.0000	0.00E+00		
In(NO3)3		0.00	In(NO3)3	0.0000	0.00E+00		
In2O3		0.27	In2O3	0.0011	9.02E-04		
In(OH)3		0.00	In(OH)3	0.0000	0.00E+00		
K2CrO4		0.00	K2CrO4	0.0000	0.00E+00		
KMnO4		0.00	KMnO4	0.0000	0.00E+00		
KNO3		0.00	KNO3	0.0000	0.00E+00		
K2O		17,709.53	K2O	69.6131	5.92E+01		
KOH		0.00	KOH	0.0000	0.00E+00		
La(NO3)3		0.00	La(NO3)3	0.0000	0.00E+00		
La2O3		169.71	La2O3	0.6671	5.68E-01		
La(OH)3		0.00	La(OH)3	0.0000	0.00E+00		
LiOH		0.00	LiOH	0.0000	0.00E+00		
LiNO3		0.00	LiNO3	0.0000	0.00E+00		
Li2O		14,955.77	Li2O	58.7886	5.00E+01		
MgCO3		0.00	MgCO3	0.0000	0.00E+00		
Mg(NO3)2		0.00	Mg(NO3)2	0.0000	0.00E+00		
MgO		4,273.08	MgO	16.7967	1.43E+01		
Mg(OH)2		0.00	Mg(OH)2	0.0000	0.00E+00		
Mn(NO3)2		0.00	Mn(NO3)2	0.0000	0.00E+00		
MnO		4,747.86	MnO	18.6630	1.59E+01		
MnO2		0.00	MnO2	0.0000	0.00E+00		
Mn(OH)2		0.00	Mn(OH)2	0.0000	0.00E+00		
MoO3		56.00	MoO3	0.2201	5.66E-01		
Na3BO3		0.00	Na3BO3	0.0000	0.00E+00		
Li3PO4		0.00	Li3PO4	0.0000	0.00E+00		
Na2B4O7		0.00	Na2B4O7	0.0000	0.00E+00		
Na2C2O4		0.00	Na2C2O4	0.0000	0.00E+00		
Na2CO3		0.00	Na2CO3	0.0000	0.00E+00		
NaCl		64.22	NaCl	0.2524	2.14E+01		
spare		0.00	spare	0.0000	0.00E+00		

STREAM NUMBER	47	48	49	50	51	52	53
STREAM NAME	OFF GAS TO SBS	SBS CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD CHEMICAL ADD	OGD OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Eu(NO3)3	0.00E+00			0.00E+00			0.00E+00
Eu2O3	2.55E-02			8.50E-04			8.50E-04
Eu(OH)3	0.00E+00			0.00E+00			0.00E+00
Fe	0.00E+00			0.00E+00			0.00E+00
Fe(NO3)3	0.00E+00			0.00E+00			0.00E+00
FeO	0.00E+00			0.00E+00			0.00E+00
Fe(OH)3	0.00E+00			0.00E+00			0.00E+00
Fe2O3	1.92E+02			6.42E+00			6.42E+00
FePO4	0.00E+00			0.00E+00			0.00E+00
Gd(NO3)3	0.00E+00			0.00E+00			0.00E+00
Gd2O3	5.65E-03			1.88E-04			1.88E-04
Gd(OH)3	0.00E+00			0.00E+00			0.00E+00
Ge(NO3)4	0.00E+00			0.00E+00			0.00E+00
GeO2	2.18E-05			7.27E-07			7.27E-07
Ge(OH)4	0.00E+00			0.00E+00			0.00E+00
H3BO3	0.00E+00			0.00E+00			0.00E+00
H2CO3	0.00E+00			0.00E+00			0.00E+00
H2C2O4	0.00E+00			0.00E+00			0.00E+00
HCl	0.00E+00			0.00E+00			0.00E+00
HF	0.00E+00			0.00E+00			0.00E+00
HNO3	0.00E+00			0.00E+00			0.00E+00
H2SO4	0.00E+00			0.00E+00			0.00E+00
Hg	6.54E+00			1.09E+00			1.09E+00
Hg2Cl2	0.00E+00			0.00E+00			0.00E+00
Hg2I2	0.00E+00			0.00E+00			0.00E+00
Hg(NO3)2	0.00E+00			0.00E+00			0.00E+00
HgO	0.00E+00			0.00E+00			0.00E+00
Hg(OH)2	0.00E+00			0.00E+00			0.00E+00
In(NO3)3	0.00E+00			0.00E+00			0.00E+00
In2O3	9.02E-04			3.01E-05			3.01E-05
In(OH)3	0.00E+00			0.00E+00			0.00E+00
K2CrO4	0.00E+00			0.00E+00			0.00E+00
KMnO4	0.00E+00			0.00E+00			0.00E+00
KNO3	0.00E+00			0.00E+00			0.00E+00
K2O	5.92E+01			1.97E+00			1.97E+00
KOH	0.00E+00			0.00E+00			0.00E+00
La(NO3)3	0.00E+00			0.00E+00			0.00E+00
La2O3	5.68E-01			1.89E-02			1.89E-02
La(OH)3	0.00E+00			0.00E+00			0.00E+00
LiOH	0.00E+00			0.00E+00			0.00E+00
LiNO3	0.00E+00			0.00E+00			0.00E+00
Li2O	5.00E+01			1.67E+00			1.67E+00
MgCO3	0.00E+00			0.00E+00			0.00E+00
Mg(NO3)2	0.00E+00			0.00E+00			0.00E+00
MgO	1.43E+01			4.76E-01			4.76E-01
Mg(OH)2	0.00E+00			0.00E+00			0.00E+00
Mn(NO3)2	0.00E+00			0.00E+00			0.00E+00
MnO	1.59E+01			5.29E-01			5.29E-01
MnO2	0.00E+00			0.00E+00			0.00E+00
Mn(OH)2	0.00E+00			0.00E+00			0.00E+00
MoO3	5.66E-01			2.83E-02			2.83E-02
Na3BO3	0.00E+00			0.00E+00			0.00E+00
Li3PO4	0.00E+00			0.00E+00			0.00E+00
Na2B4O7	0.00E+00			0.00E+00			0.00E+00
Na2C2O4	0.00E+00			0.00E+00			0.00E+00
Na2CO3	0.00E+00			0.00E+00			0.00E+00
NaCl	2.14E+01			3.57E+00			3.57E+00
spare	0.00E+00			0.00E+00			0.00E+00

STREAM NUMBER	54	55	56	57	58
STREAM NAME	HEME CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS	HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg
Eu(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eu2O3		2.83E-05	2.83E-05	2.83E-11	2.83E-11
Eu(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
FeO		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe2O3		2.14E-01	2.14E-01	2.14E-07	2.14E-07
FePO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Gd(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Gd2O3		6.28E-06	6.28E-06	6.28E-12	6.28E-12
Gd(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ge(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
GeO2		2.42E-08	2.42E-08	2.42E-14	2.42E-14
Ge(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
H3BO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2CO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2C2O4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
HCl		0.00E+00	0.00E+00	0.00E+00	0.00E+00
HF		0.00E+00	0.00E+00	0.00E+00	0.00E+00
HNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2SO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg		3.64E-02	3.64E-02	3.64E-08	3.64E-08
Hg2Cl2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg2I2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
HgO		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
In(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
In2O3		1.00E-06	1.00E-06	1.00E-12	1.00E-12
In(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
K2CrO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
KMnO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
KNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
K2O		6.58E-02	6.58E-02	6.58E-08	6.58E-08
KOH		0.00E+00	0.00E+00	0.00E+00	0.00E+00
La(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
La2O3		6.31E-04	6.31E-04	6.31E-10	6.31E-10
La(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
LiOH		0.00E+00	0.00E+00	0.00E+00	0.00E+00
LiNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Li2O		5.56E-02	5.56E-02	5.56E-08	5.56E-08
MgCO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mg(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
MgO		1.59E-02	1.59E-02	1.59E-08	1.59E-08
Mg(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mn(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
MnO		1.76E-02	1.76E-02	1.76E-08	1.76E-08
MnO2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mn(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
MoO3		9.43E-04	9.43E-04	9.43E-10	9.43E-10
Na3BO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Li3PO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2B4O7		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2C2O4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2CO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaCl		1.19E-01	1.19E-01	1.19E-07	1.19E-07
spare		0.00E+00	0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER		1	2	3	4	5
STREAM NAME		THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE 1/31/89
COMPONENT KG	MOLECULAR WEIGHT	kg	kg	kg	kg	kg
Na2CrO4	161.97			0.00		
NaF	41.99	1.00	0.00	1.00	503.00	0.00
NaH2PO4	120.00			0.00		
NaHCO3	84.01			0.00	42,557.00	0.00
NaI	149.92			0.00		
H3PO4	98.00			0.00		
Na2MoO4	205.95	54.00	0.00	54.00	691.00	0.00
NaNO2	69.00			0.00	311,326.00	0.00
NaNO3	85.01	227.00	0.00	227.00	602,659.00	0.00
Na2O	61.98			0.00		
NaOH	40.01			0.00	17,537.00	0.00
Na3PO4	163.94	12.00	0.00	12.00	3,799.00	0.00
Na2PuO2(OH)4	385.00			0.00		
Na2RhO4	212.91			0.00		
Na2RuO4	211.07			0.00		
Na2SO4	142.06	180.00	0.00	180.00	76,261.00	0.00
Na2SeO4	188.96	1.00	0.00	1.00	15.00	0.00
Na2SiO3	122.08	126.00	0.00	126.00		
NaTcO4	186.00	11.00	0.00	11.00	177.00	0.00
Na2TeO4	237.58	5.00	0.00	5.00	82.00	0.00
Na2U2O7	634.00			0.00	231.00	0.00
Nd(NO3)3	330.35	73.00	0.00	73.00		
Nd2O3	336.48			0.00		
Nd(OH)3	234.26			0.00	0.00	621.00
Ni	58.71			0.00		
Ni(NO3)2	182.81	791.00	0.00	791.00		
NiO	74.71			0.00		
Ni(OH)2	92.74			0.00	0.00	1,088.00
Np(NO3)4	485.00	0.90	0.00	0.90		
NpO2	269.05			0.00	0.00	35.00
Np(OH)4	301.00			0.00		
P2O5	141.99			0.00		
Pa(NO3)4	279.04	0.70	0.00	0.70		
PaO2	263.04			0.00		
Pa(OH)4	299.04			0.00		
Pd	106.40			0.00		
Pd(NO3)2	230.42	8.00	0.00	8.00		
PdO	122.40			0.00		
Pd(OH)2	140.40			0.00	0.00	34.00
Pm(NO3)3	333.00	0.01	0.00	0.01		
Pm2O3	341.80			0.00		
Pm(OH)3	197.90			0.00	0.00	1.50
Pr(NO3)3	326.91	21.00	0.00	21.00		
Pr2O3	329.81			0.00		
Pr(OH)3	191.93			0.00	0.00	170.00
Pu(NO3)4	488.16	0.70	0.00	0.70		
PuO2	271.05			0.00	0.00	37.00
RbNO3	147.47	6.00	0.00	6.00	119.00	0.00
Rb2O	186.94			0.00		
Rh	102.91			0.00		
Rh(NO3)4	350.91	11.00	0.00	11.00		
RhO2	134.90			0.00		
Rh(OH)4	170.91			0.00	0.00	79.00
Ru	101.07			0.00		
Ru(NO3)4	349.07	42.00	0.00	42.00		
RuO2	133.07			0.00		
spare	165.07			0.00		
Ru(OH)4	169.07			0.00	0.00	458.00

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	8D1 CONDENSATE	8D2 CHEMICAL ADD	8D2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2CrO4	0.00				0.00	0.00	0.00
NaF	503.00				503.00	448.32	54.68
NaH2PO4	0.00				0.00	0.00	0.00
NaHCO3	42,557.00				42,557.00	37,930.91	4,626.09
NaI	0.00				0.00	0.00	0.00
H3PO4	0.00				0.00	0.00	0.00
Na2MoO4	691.00				691.00	615.89	75.11
NaNO2	311,326.00				311,326.00	277,483.81	33,842.19
NaNO3	602,659.00				602,659.00	537,147.93	65,511.07
Na2O	0.00				0.00	0.00	0.00
NaOH	17,537.00				17,537.00	15,630.67	1,906.33
Na3PO4	3,799.00				3,799.00	3,386.04	412.96
Na2PuO2(OH)4	0.00				0.00	0.00	0.00
Na2RhO4	0.00				0.00	0.00	0.00
Na2RuO4	0.00				0.00	0.00	0.00
Na2SO4	76,261.00				76,261.00	67,971.17	8,289.83
Na2SeO4	15.00				15.00	13.37	1.63
Na2SiO3	0.00				0.00	0.00	0.00
NaTcO4	177.00				177.00	157.76	19.24
Na2TeO4	82.00				82.00	73.09	8.91
Na2U2O7	231.00				231.00	205.89	25.11
Nd(NO3)3	0.00				0.00	0.00	0.00
Nd2O3	0.00				0.00	0.00	0.00
Nd(OH)3	621.00				621.00	0.00	621.00
Ni	0.00				0.00	0.00	0.00
Ni(NO3)2	0.00				0.00	0.00	0.00
NiO	0.00				0.00	0.00	0.00
Ni(OH)2	1,088.00				1,088.00	0.00	1,088.00
Np(NO3)4	0.00				0.00	0.00	0.00
NpO2	35.00				35.00	0.00	35.00
Np(OH)4	0.00				0.00	0.00	0.00
P2O5	0.00				0.00	0.00	0.00
Pa(NO3)4	0.00				0.00	0.00	0.00
PaO2	0.00				0.00	0.00	0.00
Pa(OH)4	0.00				0.00	0.00	0.00
Pd	0.00				0.00	0.00	0.00
Pd(NO3)2	0.00				0.00	0.00	0.00
PdO	0.00				0.00	0.00	0.00
Pd(OH)2	34.00				34.00	0.00	34.00
Pm(NO3)3	0.00				0.00	0.00	0.00
Pm2O3	0.00				0.00	0.00	0.00
Pm(OH)3	1.50				1.50	0.00	1.50
Pr(NO3)3	0.00				0.00	0.00	0.00
Pr2O3	0.00				0.00	0.00	0.00
Pr(OH)3	170.00				170.00	0.00	170.00
Pu(NO3)4	0.00				0.00	0.00	0.00
PuO2	37.00				37.00	0.00	37.00
RbNO3	119.00				119.00	106.06	12.94
Rb2O	0.00				0.00	0.00	0.00
Rh	0.00				0.00	0.00	0.00
Rh(NO3)4	0.00				0.00	0.00	0.00
RhO2	0.00				0.00	0.00	0.00
Rh(OH)4	79.00				79.00	0.00	79.00
Ru	0.00				0.00	0.00	0.00
Ru(NO3)4	0.00				0.00	0.00	0.00
RuO2	0.00				0.00	0.00	0.00
spare	0.00				0.00	0.00	0.00
Ru(OH)4	458.00				458.00	0.00	458.00

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2CrO4				0.00	0.00	0.00	
NaF				53.14	1.54	0.00	
NaH2PO4				0.00	0.00	0.00	
NaHCO3				4,495.85	130.24	0.00	
NaI				0.00	0.00	0.00	
H3PO4				0.00	0.00	0.00	
Na2MoO4				73.00	2.11	0.00	
NaNO2				32,889.39	952.80	0.00	
NaNO3				63,666.66	1,844.40	0.00	
Na2O		3,830.29		0.00	0.00	3,830.29	
NaOH				1,852.66	53.67	0.00	
Na3PO4				401.34	11.63	0.00	
Na2PuO2(OH)4				0.00	0.00	0.00	
Na2RhO4				0.00	0.00	0.00	
Na2RuO4				0.00	0.00	0.00	
Na2SO4				8,056.44	233.39	0.00	
Na2SeO4				1.58	0.05	0.00	
Na2SiO3				0.00	0.00	0.00	
NaTcO4				18.70	0.54	0.00	
Na2TeO4				8.66	0.25	0.00	
Na2U2O7				24.40	0.71	0.00	
Nd(NO3)3				0.00	0.00	0.00	
Nd2O3				0.00	0.00	0.00	
Nd(OH)3				0.00	621.00	0.00	
Ni				0.00	0.00	0.00	
Ni(NO3)2				0.00	0.00	0.00	
NiO				0.00	0.00	0.00	
Ni(OH)2				0.00	1,088.00	0.00	
Np(NO3)4				0.00	0.00	0.00	
NpO2				0.00	35.00	0.00	
Np(OH)4				0.00	0.00	0.00	
P2O5				0.00	0.00	0.00	
Pa(NO3)4				0.00	0.00	0.00	
PaO2				0.00	0.00	0.00	
Pa(OH)4				0.00	0.00	0.00	
Pd				0.00	0.00	0.00	
Pd(NO3)2				0.00	0.00	0.00	
PdO				0.00	0.00	0.00	
Pd(OH)2				0.00	34.00	0.00	
Pm(NO3)3				0.00	0.00	0.00	
Pm2O3				0.00	0.00	0.00	
Pm(OH)3				0.00	1.50	0.00	
Pr(NO3)3				0.00	0.00	0.00	
Pr2O3				0.00	0.00	0.00	
Pr(OH)3				0.00	170.00	0.00	
Pu(NO3)4				0.00	0.00	0.00	
PuO2				0.00	37.00	0.00	
RbNO3				12.57	0.36	0.00	
Rb2O				0.00	0.00	0.00	
Rh				0.00	0.00	0.00	
Rh(NO3)4				0.00	0.00	0.00	
RhO2				0.00	0.00	0.00	
Rh(OH)4				0.00	79.00	0.00	
Ru				0.00	0.00	0.00	
Ru(NO3)4				0.00	0.00	0.00	
RuO2				0.00	0.00	0.00	
spare				0.00	0.00	0.00	
Ru(OH)4				0.00	458.00	0.00	

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT							
KG	kg	kg	kg	kg	kg	kg	kg
Na2CrO4			0.00				0.00
NaF			1.00				1.00
NaH2PO4			0.00				0.00
NaHCO3			0.00				0.00
NaI			0.00				0.00
Na3PO4			0.00				0.00
Na2MoO4			54.00				54.00
NaNO2			0.00				0.00
NaNO3			227.00				43,044.76
Na2O			0.00				0.00
NaOH			0.00	21,084.02			0.00
Na3PO4			12.00				12.00
Na2PuO2(OH)4			0.00				0.00
Na2RhO4			0.00				0.00
Na2RuO4			0.00				0.00
Na2SO4			180.00				165.32
Na2SeO4			1.00				1.00
Na2SiO3			126.00				126.00
NaTcO4			11.00				11.00
Na2TeO4			5.00				5.00
Na2U2O7			0.00				0.00
Nd(NO3)3			73.00				0.00
Nd2O3			0.00				0.00
Nd(OH)3			0.00				51.77
Ni			0.00				0.00
Ni(NO3)2			791.00				0.00
NiO			0.00				0.00
Ni(OH)2			0.00				401.28
Np(NO3)4			0.90				0.00
NpO2			0.00				0.00
Np(OH)4			0.00				0.56
P2O5			0.00				0.00
Pa(NO3)4			0.70				0.00
PaO2			0.00				0.00
Pa(OH)4			0.00				0.75
Pd			0.00				0.00
Pd(NO3)2			8.00				0.00
PdO			0.00				0.00
Pd(OH)2			0.00				4.87
Pm(NO3)3			0.01				0.00
Pm2O3			0.00				0.00
Pm(OH)3			0.00				0.01
Pr(NO3)3			21.00				0.00
Pr2O3			0.00				0.00
Pr(OH)3			0.00				12.33
Pu(NO3)4			0.70				0.00
PuO2			0.00				0.39
RbNO3			6.00				6.00
Rb2O			0.00				0.00
Rh			0.00				0.00
Rh(NO3)4			11.00				0.00
RhO2			0.00				0.00
Rh(OH)4			0.00				5.36
Ru			0.00				0.00
Ru(NO3)4			42.00				0.00
RuO2			0.00				0.00
spare			0.00				0.00
Ru(OH)4			0.00				20.34

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED 8D2	8D2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2CrO4	0.00E+00		0.00E+00		0.00E+00		
NaF	2.54E+00		2.24E+02		4.33E+01		
NaH2PO4	0.00E+00		0.00E+00		0.00E+00		
NaHCO3	1.30E+02		0.00E+00		0.00E+00		
NaI	0.00E+00		0.00E+00		0.00E+00		
H3PO4	0.00E+00		0.00E+00		0.00E+00		
Na2MoO4	5.61E+01		0.00E+00		0.00E+00		
NaNO2	9.53E+02		0.00E+00	0.00E+00	0.00E+00		
NaNO3	4.49E+04		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2O	3.83E+03		5.89E+01		5.84E+00		
NaOH	5.37E+01		0.00E+00		0.00E+00		
Na3PO4	2.36E+01		0.00E+00		0.00E+00		
Na2PuO2(OH)4	0.00E+00		0.00E+00		0.00E+00		
Na2RhO4	0.00E+00		0.00E+00		0.00E+00		
Na2RuO4	0.00E+00		0.00E+00		0.00E+00		
Na2SO4	3.99E+02		2.68E+02		4.30E-02		
Na2SeO4	1.05E+00		0.00E+00		0.00E+00		
Na2SiO3	1.26E+02		0.00E+00		0.00E+00		
NaTcO4	1.15E+01		0.00E+00		0.00E+00		
Na2TeO4	5.25E+00		0.00E+00		0.00E+00		
Na2U2O7	7.07E-01		0.00E+00		0.00E+00		
Nd(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Nd2O3	0.00E+00		1.56E+00		5.21E-02		
Nd(OH)3	6.73E+02		0.00E+00		0.00E+00		
Ni	0.00E+00		0.00E+00		0.00E+00		
Ni(NO3)2	0.00E+00		0.00E+00		0.00E+00		
NiO	0.00E+00		3.88E+00		1.29E-01		
Ni(OH)2	1.49E+03		0.00E+00		0.00E+00		
Np(NO3)4	0.00E+00		0.00E+00		0.00E+00		
NpO2	3.50E+01		1.15E-01		3.83E-03		
Np(OH)4	5.59E-01		0.00E+00		0.00E+00		
P2O5	0.00E+00		3.62E+01		1.21E+00		
Pa(NO3)4	0.00E+00		0.00E+00		0.00E+00		
PaO2	0.00E+00		2.13E-03		7.11E-05		
Pa(OH)4	7.50E-01		0.00E+00		0.00E+00		
Pd	0.00E+00		0.00E+00		0.00E+00		
Pd(NO3)2	0.00E+00		0.00E+00		0.00E+00		
PdO	0.00E+00		1.10E-01		3.65E-03		
Pd(OH)2	3.89E+01		0.00E+00		0.00E+00		
Pm(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Pm2O3	0.00E+00		4.20E-03		1.40E-04		
Pm(OH)3	1.51E+00		0.00E+00		0.00E+00		
Pr(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Pr2O3	0.00E+00		5.06E-01		1.69E-02		
Pr(OH)3	1.82E+02		0.00E+00		0.00E+00		
Pu(NO3)4	0.00E+00		0.00E+00		0.00E+00		
PuO2	3.74E+01		1.21E-01		4.03E-03		
RbNO3	6.36E+00		0.00E+00		0.00E+00		
Rb2O	0.00E+00		1.30E-02		4.35E-04		
Rh	0.00E+00		0.00E+00		0.00E+00		
Rh(NO3)4	0.00E+00		0.00E+00		0.00E+00		
RhO2	0.00E+00		2.15E-01		7.18E-03		
Rh(OH)4	8.44E+01		0.00E+00		0.00E+00		
Ru	0.00E+00		0.00E+00		0.00E+00		
Ru(NO3)4	0.00E+00		0.00E+00		0.00E+00		
RuO2	0.00E+00		3.97E+01		2.02E+00		
spare	0.00E+00		0.00E+00		0.00E+00		
Ru(OH)4	4.78E+02		0.00E+00		0.00E+00		

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MADE-UP MELTER FEED	MELTER FEED
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2CrO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
NaF		2.70E+02	2.70E+02	4.03E-01		2.70E+02	2.70E+02
NaH2PO4		0.00E+00	0.00E+00	0.00E+00	1.39E+04	0.00E+00	0.00E+00
NaHCO3		1.30E+02	1.30E+02	1.95E-01		1.30E+02	1.30E+02
NaI		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
H3PO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Na2MoO4		5.61E+01	5.61E+01	8.39E-02		5.61E+01	5.61E+01
NaNO2		9.53E+02	9.53E+02	1.42E+00		9.53E+02	9.53E+02
NaNO3		4.49E+04	4.49E+04	6.71E+01		4.84E+04	4.84E+04
Na2O		3.90E+03	3.90E+03	5.82E+00		3.90E+03	3.90E+03
NaOH		5.37E+01	5.37E+01	8.02E-02	1.09E+04	5.37E+01	5.37E+01
Na3PO4		2.36E+01	2.36E+01	3.53E-02		1.90E+04	1.90E+04
Na2PuO2(OH)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Na2RhO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Na2RuO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Na2SO4		6.67E+02	6.67E+02	9.96E-01		6.67E+02	6.67E+02
Na2SeO4		1.05E+00	1.05E+00	1.56E-03		1.05E+00	1.05E+00
Na2SiO3		1.26E+02	1.26E+02	1.88E-01		1.26E+02	1.26E+02
NaTcO4		1.15E+01	1.15E+01	1.72E-02		1.15E+01	1.15E+01
Na2TeO4		5.25E+00	5.25E+00	7.85E-03		5.25E+00	5.25E+00
Na2U2O7		7.07E-01	7.07E-01	1.06E-03		7.07E-01	7.07E-01
Nd(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Nd2O3		1.61E+00	1.61E+00	2.41E-03		1.61E+00	1.61E+00
Nd(OH)3		6.73E+02	6.73E+02	1.01E+00		6.73E+02	6.73E+02
Ni		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Ni(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
NiO		4.01E+00	4.01E+00	5.99E-03		4.01E+00	4.01E+00
Ni(OH)2		1.49E+03	1.49E+03	2.23E+00		1.49E+03	1.49E+03
Np(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
NpO2		3.51E+01	3.51E+01	5.25E-02		3.51E+01	3.51E+01
Np(OH)4		5.59E-01	5.59E-01	8.35E-04		5.59E-01	5.59E-01
P2O5		3.74E+01	3.74E+01	5.59E-02		3.74E+01	3.74E+01
Pa(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
PaO2		2.20E-03	2.20E-03	3.29E-06		2.20E-03	2.20E-03
Pa(OH)4		7.50E-01	7.50E-01	1.12E-03		7.50E-01	7.50E-01
Pd		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Pd(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
PdO		1.13E-01	1.13E-01	1.69E-04		1.13E-01	1.13E-01
Pd(OH)2		3.89E+01	3.89E+01	5.81E-02		3.89E+01	3.89E+01
Pm(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Pm2O3		4.34E-03	4.34E-03	6.49E-06		4.34E-03	4.34E-03
Pm(OH)3		1.51E+00	1.51E+00	2.25E-03		1.51E+00	1.51E+00
Pr(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Pr2O3		5.23E-01	5.23E-01	7.82E-04		5.23E-01	5.23E-01
Pr(OH)3		1.82E+02	1.82E+02	2.72E-01		1.82E+02	1.82E+02
Pu(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
PuO2		3.75E+01	3.75E+01	5.61E-02		3.75E+01	3.75E+01
RbNO3		6.36E+00	6.36E+00	9.51E-03		6.36E+00	6.36E+00
Rb2O		1.35E-02	1.35E-02	2.01E-05		1.35E-02	1.35E-02
Rh		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Rh(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
RhO2		2.22E-01	2.22E-01	3.32E-04		2.22E-01	2.22E-01
Rh(OH)4		8.44E+01	8.44E+01	1.26E-01		8.44E+01	8.44E+01
Ru		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Ru(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
RuO2		4.18E+01	4.18E+01	6.24E-02		4.18E+01	4.18E+01
spare		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Ru(OH)4		4.78E+02	4.78E+02	7.15E-01		4.78E+02	4.78E+02

STREAM NUMBER	41	42		43	44	45	46
STREAM NAME	AIR INLEAKAGE TO SFCM	GLASS PRODUCTION		FILLED GLASS CANISTER (/ CANISTER)	SFCM OFF GAS	FILM COOLER AIR	PRESSURE CONTROL AIR
COMPONENT KG	kg	kg		kg	kg	kg	kg
Na2CrO4		0.00	Na2CrO4	0.0000	0.00E+00		
NaF		805.40	NaF	3.1659	2.68E+02		
NaH2PO4		0.00	NaH2PO4	0.0000	0.00E+00		
NaHCO3		0.00	NaHCO3	0.0000	0.00E+00		
NaI		0.00	NaI	0.0000	0.00E+00		
H3PO4		0.00	H3PO4	0.0000	0.00E+00		
Na2MoO4		0.00	Na2MoO4	0.0000	0.00E+00		
NaNO2		0.00	NaNO2	0.0000	0.00E+00		
NaNO3		0.00	NaNO3	0.0000	0.00E+00		
Na2O		54,220.59	Na2O	213.1319	1.81E+02		
NaOH		0.00	NaOH	0.0000	0.00E+00		
Na3PO4		0.00	Na3PO4	0.0000	0.00E+00		
Na2PuO2(OH)4		0.00	Na2PuO2(OH)4	0.0000	0.00E+00		
Na2RhO4		0.00	Na2RhO4	0.0000	0.00E+00		
Na2RuO4		0.00	Na2RuO4	0.0000	0.00E+00		
Na2SO4		398.71	Na2SO4	1.5673	1.33E+00		
Na2SeO4		0.00	Na2SeO4	0.0000	0.00E+00		
Na2SiO3		0.00	Na2SiO3	0.0000	0.00E+00		
NaTcO4		0.00	NaTcO4	0.0000	0.00E+00		
Na2TeO4		0.00	Na2TeO4	0.0000	0.00E+00		
Na2U2O7		0.00	Na2U2O7	0.0000	0.00E+00		
Nd(NO3)3		0.00	Nd(NO3)3	0.0000	0.00E+00		
Nd2O3		483.16	Nd2O3	1.8992	1.62E+00		
Nd(OH)3		0.00	Nd(OH)3	0.0000	0.00E+00		
Ni		0.00	Ni	0.0000	0.00E+00		
Ni(NO3)2		0.00	Ni(NO3)2	0.0000	0.00E+00		
NiO		1,199.74	NiO	4.7160	4.01E+00		
Ni(OH)2		0.00	Ni(OH)2	0.0000	0.00E+00		
Np(NO3)4		0.00	Np(NO3)4	0.0000	0.00E+00		
NpO2		35.50	NpO2	0.1395	1.19E-01		
Np(OH)4		0.00	Np(OH)4	0.0000	0.00E+00		
P2O5		11,204.96	P2O5	44.0448	3.75E+01		
Pa(NO3)4		0.00	Pa(NO3)4	0.0000	0.00E+00		
PaO2		0.66	PaO2	0.0026	2.21E-03		
Pa(OH)4		0.00	Pa(OH)4	0.0000	0.00E+00		
Pd		0.00	Pd	0.0000	0.00E+00		
Pd(NO3)2		0.00	Pd(NO3)2	0.0000	0.00E+00		
PdO		33.89	PdO	0.1332	1.13E-01		
Pd(OH)2		0.00	Pd(OH)2	0.0000	0.00E+00		
Pm(NO3)3		0.00	Pm(NO3)3	0.0000	0.00E+00		
Pm2O3		1.30	Pm2O3	0.0051	4.35E-03		
Pm(OH)3		0.00	Pm(OH)3	0.0000	0.00E+00		
Pr(NO3)3		0.00	Pr(NO3)3	0.0000	0.00E+00		
Pr2O3		156.66	Pr2O3	0.6158	5.24E-01		
Pr(OH)3		0.00	Pr(OH)3	0.0000	0.00E+00		
Pu(NO3)4		0.00	Pu(NO3)4	0.0000	0.00E+00		
PuO2		37.39	PuO2	0.1470	1.25E-01		
RbNO3		0.00	RbNO3	0.0000	0.00E+00		
Rb2O		4.03	Rb2O	0.0159	1.35E-02		
Rh		0.00	Rh	0.0000	0.00E+00		
Rh(NO3)4		0.00	Rh(NO3)4	0.0000	0.00E+00		
RhO2		66.58	RhO2	0.2617	2.23E-01		
Rh(OH)4		0.00	Rh(OH)4	0.0000	0.00E+00		
Ru		0.00	Ru	0.0000	0.00E+00		
Ru(NO3)4		0.00	Ru(NO3)4	0.0000	0.00E+00		
RuO2		376.42	RuO2	1.4796	4.18E+01		
spare		0.00	spare	0.0000	0.00E+00		
Ru(OH)4		0.00	Ru(OH)4	0.0000	0.00E+00		

STREAM NUMBER	47	48	49	50	51	52	53
STREAM NAME	OFF GAS TO SBS	SBS CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD CHEMICAL ADD	OGD OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2CrO4	0.00E+00			0.00E+00			0.00E+00
NaF	2.68E+02			4.47E+01			4.47E+01
NaH2PO4	0.00E+00			0.00E+00			0.00E+00
NaHCO3	0.00E+00			0.00E+00			0.00E+00
NaI	0.00E+00			0.00E+00			0.00E+00
H3PO4	0.00E+00			0.00E+00			0.00E+00
Na2MoO4	0.00E+00			0.00E+00			0.00E+00
NaNO2	0.00E+00			0.00E+00			0.00E+00
NaNO3	0.00E+00			0.00E+00			0.00E+00
Na2O	1.81E+02			6.04E+00			6.04E+00
NaOH	0.00E+00			0.00E+00			0.00E+00
Na3PO4	0.00E+00			0.00E+00			0.00E+00
Na2PuO2(OH)4	0.00E+00			0.00E+00			0.00E+00
Na2RhO4	0.00E+00			0.00E+00			0.00E+00
Na2RuO4	0.00E+00			0.00E+00			0.00E+00
Na2SO4	1.33E+00			4.44E-02			4.44E-02
Na2SeO4	0.00E+00			0.00E+00			0.00E+00
Na2SiO3	0.00E+00			0.00E+00			0.00E+00
NaTcO4	0.00E+00			0.00E+00			0.00E+00
Na2TeO4	0.00E+00			0.00E+00			0.00E+00
Na2U2O7	0.00E+00			0.00E+00			0.00E+00
Nd(NO3)3	0.00E+00			0.00E+00			0.00E+00
Nd2O3	1.62E+00			5.39E-02			5.39E-02
Nd(OH)3	0.00E+00			0.00E+00			0.00E+00
Ni	0.00E+00			0.00E+00			0.00E+00
Ni(NO3)2	0.00E+00			0.00E+00			0.00E+00
NiO	4.01E+00			1.34E-01			1.34E-01
Ni(OH)2	0.00E+00			0.00E+00			0.00E+00
Np(NO3)4	0.00E+00			0.00E+00			0.00E+00
NpO2	1.19E-01			3.96E-03			3.96E-03
Np(OH)4	0.00E+00			0.00E+00			0.00E+00
P2O5	3.75E+01			1.25E+00			1.25E+00
Pa(NO3)4	0.00E+00			0.00E+00			0.00E+00
PaO2	2.21E-03			7.36E-05			7.36E-05
Pa(OH)4	0.00E+00			0.00E+00			0.00E+00
Pd	0.00E+00			0.00E+00			0.00E+00
Pd(NO3)2	0.00E+00			0.00E+00			0.00E+00
PdO	1.13E-01			3.78E-03			3.78E-03
Pd(OH)2	0.00E+00			0.00E+00			0.00E+00
Pm(NO3)3	0.00E+00			0.00E+00			0.00E+00
Pm2O3	4.35E-03			1.45E-04			1.45E-04
Pm(OH)3	0.00E+00			0.00E+00			0.00E+00
Pr(NO3)3	0.00E+00			0.00E+00			0.00E+00
Pr2O3	5.24E-01			1.75E-02			1.75E-02
Pr(OH)3	0.00E+00			0.00E+00			0.00E+00
Pu(NO3)4	0.00E+00			0.00E+00			0.00E+00
PuO2	1.25E-01			4.17E-03			4.17E-03
RbNO3	0.00E+00			0.00E+00			0.00E+00
Rb2O	1.35E-02			4.50E-04			4.50E-04
Rh	0.00E+00			0.00E+00			0.00E+00
Rh(NO3)4	0.00E+00			0.00E+00			0.00E+00
RhO2	2.23E-01			7.42E-03			7.42E-03
Rh(OH)4	0.00E+00			0.00E+00			0.00E+00
Ru	0.00E+00			0.00E+00			0.00E+00
Ru(NO3)4	0.00E+00			0.00E+00			0.00E+00
RuO2	4.18E+01			2.09E+00			2.09E+00
spare	0.00E+00			0.00E+00			0.00E+00
Ru(OH)4	0.00E+00			0.00E+00			0.00E+00

STREAM NUMBER	54	55	56	57	58
STREAM NAME	HEME CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS	HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg
Na2CrO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaF		1.49E+00	1.49E+00	1.49E-06	1.49E-06
NaH2PO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaHCO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaI		0.00E+00	0.00E+00	0.00E+00	0.00E+00
H3PO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2MoO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaNO2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2O		2.01E-01	2.01E-01	2.01E-07	2.01E-07
NaOH		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na3PO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2PuO2(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2RhO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2RuO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2SO4		1.48E-03	1.48E-03	1.48E-09	1.48E-09
Na2SeO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2SiO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaTcO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2TeO4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2U2O7		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd2O3		1.80E-03	1.80E-03	1.80E-09	1.80E-09
Nd(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NiO		4.46E-03	4.46E-03	4.46E-09	4.46E-09
Ni(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NpO2		1.32E-04	1.32E-04	1.32E-10	1.32E-10
Np(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
P2O5		4.16E-02	4.16E-02	4.16E-08	4.16E-08
Pa(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
PaO2		2.45E-06	2.45E-06	2.45E-12	2.45E-12
Pa(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
PdO		1.26E-04	1.26E-04	1.26E-10	1.26E-10
Pd(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pm(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pm2O3		4.83E-06	4.83E-06	4.83E-12	4.83E-12
Pm(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr2O3		5.82E-04	5.82E-04	5.82E-10	5.82E-10
Pr(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pu(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
PuO2		1.39E-04	1.39E-04	1.39E-10	1.39E-10
RbNO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb2O		1.50E-05	1.50E-05	1.50E-11	1.50E-11
Rh		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
RhO2		2.47E-04	2.47E-04	2.47E-10	2.47E-10
Rh(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
RuO2		6.97E-02	6.97E-02	6.97E-08	6.97E-08
spare		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER		1	2	3	4	5
STREAM NAME		THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE 1/31/89
COMPONENT KG	MOLECULAR WEIGHT	kg	kg	kg	kg	kg
SO3	80.07			0.00		
Sb(NO3)3	307.75	0.10	0.00	0.10		
Sb2O3	291.50			0.00		
Sb(OH)3	172.75			0.00	0.00	0.70
SeO2	110.96			0.00		
Si(NO3)4	276.10			0.00	230.00	0.00
SiO2	60.08			0.00	0.00	1,263.00
Sm(NO3)3	336.46	14.00	0.00	14.00		
Sm2O3	348.70			0.00		
Sm(OH)3	201.37			0.00	0.00	143.00
Sn(NO3)4	366.71	0.70	0.00	0.70	245.00	0.00
SnO2	150.70			0.00		
Sn(OH)4	186.69			0.00	0.00	2.50
SrCO3	147.64			0.00		
Sr(NO3)2	211.69	16.00	0.00	16.00	4.00	0.00
SrO	103.63			0.00		
Sr(OH)2	121.64			0.00		
SrSO4	183.70			0.00	0.00	217.00
SUGAR(C12H22O11	342.30			0.00		
Tb(NO3)3	345.00	0.00	0.00	0.00		
Tb2O3	365.85			0.00		
Tb(OH)3	209.93			0.00		
Tc2O7	309.81			0.00		
TeO2	159.60			0.00		
Th(NO3)4	480.06	31,054.00	0.00	31,054.00		
ThO2	264.05			0.00		
Th(OH)4	300.04			0.00		
TiO2	79.90			0.00		
UO2(NO3)2	394.10	6.00	0.00	6.00		
UO2	270.07			0.00		
UO3	286.07			0.00		
UO2(OH)2	304.07			0.00	0.00	3,087.00
Y2(CO3)3	357.86			0.00		
Y(NO3)3	275.00	14.00	0.00	14.00		
Y2O3	225.81			0.00		
Y(OH)3	139.93			0.00	0.00	103.00
spare	1.00			0.00		
Zn(NO3)2	189.47	10.00	0.00	10.00		
ZnO	81.37			0.00		
Zn(OH)2	99.37			0.00		128.00
Zr(NO3)4	339.23	12.00	0.00	12.00		
ZrO2	123.22		35.00	35.00		
Zr(OH)4	159.25			0.00	0.00	964.00
TOTAL SOLIDS		51,090	35	51,125	1,129,038	97,171
CO	28.01			0.00E+00		
CO2	44.01			0.00E+00		
H2	2.02			0.00E+00		
N2	28.01			0.00E+00		
NO	30.01			0.00E+00		
NO2	46.01			0.00E+00		
O2	32.00			0.00E+00		
SO3	80.00			0.00E+00		
TOTAL GASES EXCL H2O & TRACES		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	BD1 CONDENSATE	BD2 CHEMICAL ADD	BD2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
SO3	0.00				0.00	0.00	0.00
Sb(NO3)3	0.00				0.00	0.00	0.00
Sb2O3	0.00				0.00	0.00	0.00
Sb(OH)3	0.70				0.70	0.00	0.70
SeO2	0.00				0.00	0.00	0.00
Si(NO3)4	230.00				230.00	205.00	25.00
SiO2	1,263.00	5,000.00			1,263.00	0.00	1,263.00
Sm(NO3)3	0.00				0.00	0.00	0.00
Sm2O3	0.00				0.00	0.00	0.00
Sm(OH)3	143.00				143.00	0.00	143.00
Sn(NO3)4	245.00				245.00	218.37	26.63
SnO2	0.00				0.00	0.00	0.00
Sn(OH)4	2.50				2.50	0.00	2.50
SrCO3	0.00				0.00	0.00	0.00
Sr(NO3)2	4.00				4.00	3.57	0.43
SrO	0.00				0.00	0.00	0.00
Sr(OH)2	0.00				0.00	0.00	0.00
SrSO4	217.00				217.00	0.00	217.00
SUGAR(C12H22O11	0.00				0.00	0.00	0.00
Tb(NO3)3	0.00				0.00	0.00	0.00
Tb2O3	0.00				0.00	0.00	0.00
Tb(OH)3	0.00				0.00	0.00	0.00
Tc2O7	0.00				0.00	0.00	0.00
TeO2	0.00				0.00	0.00	0.00
Th(NO3)4	0.00				0.00	0.00	0.00
ThO2	0.00				0.00	0.00	0.00
Th(OH)4	0.00				0.00	0.00	0.00
TiO2	0.00				0.00	0.00	0.00
UO2(NO3)2	0.00				0.00	0.00	0.00
UO2	0.00				0.00	0.00	0.00
UO3	0.00				0.00	0.00	0.00
UO2(OH)2	3,087.00				3,087.00	0.00	3,087.00
Y2(CO3)3	0.00				0.00	0.00	0.00
Y(NO3)3	0.00				0.00	0.00	0.00
Y2O3	0.00				0.00	0.00	0.00
Y(OH)3	103.00				103.00	0.00	103.00
spare	0.00				0.00	0.00	0.00
Zn(NO3)2	0.00				0.00	0.00	0.00
ZnO	0.00				0.00	0.00	0.00
Zn(OH)2	128.00				128.00	0.00	128.00
Zr(NO3)4	0.00				0.00	0.00	0.00
ZrO2	0.00				0.00	0.00	0.00
Zr(OH)4	964.00				964.00	0.00	964.00
TOTAL SOLIDS	1,226,209	5,000			1,226,209	1,006,308	219,901
CO	0.00E+00		CO		0.00E+00	0.00E+00	0.00E+00
CO2	0.00E+00		CO2		0.00E+00	0.00E+00	0.00E+00
H2	0.00E+00		H2		0.00E+00	0.00E+00	0.00E+00
N2	0.00E+00		N2		0.00E+00	0.00E+00	0.00E+00
NO	0.00E+00		NO		0.00E+00	0.00E+00	0.00E+00
NO2	0.00E+00		NO2		0.00E+00	0.00E+00	0.00E+00
O2	0.00E+00		O2		0.00E+00	0.00E+00	0.00E+00
SO3	0.00E+00		SO3		0.00E+00	0.00E+00	0.00E+00
TOTAL GASES EXCL H2O & TRACES	0.00E+00	0.00E+00	TOTAL GASES EXCL H2O & TRACES		0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY BD1	SAND FILTER SLURRY BD1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	BD1 WASTE BLEND	BD1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
SO3				0.00	0.00	0.00	
Sb(NO3)3				0.00	0.00	0.00	
Sb2O3				0.00	0.00	0.00	
Sb(OH)3				0.00	0.70	0.00	
SeO2				0.00	0.00	0.00	
Si(NO3)4				24.30	0.70	0.00	
SiO2		33,611.78	454.55	0.00	1,263.00	39,066.33	
Sm(NO3)3				0.00	0.00	0.00	
Sm2O3				0.00	0.00	0.00	
Sm(OH)3				0.00	143.00	0.00	
Sn(NO3)4				25.88	0.75	0.00	
SnO2				0.00	0.00	0.00	
Sn(OH)4				0.00	2.50	0.00	
SrCO3				0.00	0.00	0.00	
Sr(NO3)2				0.42	0.01	0.00	
SrO		22.37		0.00	0.00	22.37	
Sr(OH)2				0.00	0.00	0.00	
SrSO4				0.00	217.00	0.00	
SUGAR(C12H22O11)				0.00	0.00	0.00	
Tb(NO3)3				0.00	0.00	0.00	
Tb2O3				0.00	0.00	0.00	
Tb(OH)3				0.00	0.00	0.00	
Tc2O7				0.00	0.00	0.00	
TeO2				0.00	0.00	0.00	
Th(NO3)4				0.00	0.00	0.00	
ThO2				0.00	0.00	0.00	
Th(OH)4				0.00	0.00	0.00	
TiO2		16.78		0.00	0.00	16.78	
UO2(NO3)2				0.00	0.00	0.00	
UO2				0.00	0.00	0.00	
UO3				0.00	0.00	0.00	
UO2(OH)2				0.00	3,087.00	0.00	
Y2(CO3)3				0.00	0.00	0.00	
Y(NO3)3				0.00	0.00	0.00	
Y2O3				0.00	0.00	0.00	
Y(OH)3				0.00	103.00	0.00	
spare				0.00	0.00	0.00	
Zn(NO3)2				0.00	0.00	0.00	
ZnO				0.00	0.00	0.00	
Zn(OH)2				0.00	128.00	0.00	
Zr(NO3)4				0.00	0.00	0.00	
ZrO2		22.37		0.00	0.00	22.37	
Zr(OH)4				0.00	964.00	0.00	
TOTAL SOLIDS	0	49,588	455	119,275	100,626	55,042	
CO				0.00E+00	0.00E+00	0.00E+00	CO
CO2				0.00E+00	0.00E+00	0.00E+00	CO2
H2				0.00E+00	0.00E+00	0.00E+00	H2
N2				0.00E+00	0.00E+00	0.00E+00	N2
NO				0.00E+00	0.00E+00	0.00E+00	NO
NO2				0.00E+00	0.00E+00	0.00E+00	NO2
O2				0.00E+00	0.00E+00	0.00E+00	O2
SO3				0.00E+00	0.00E+00	0.00E+00	SO3
TOTAL GASES EXCL H2O & TRACES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	TOTAL GASES EXCL H2O & TRACES

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
SO3			0.00				0.00
Sb(NO3)3			0.10				0.00
Sb2O3			0.00				0.00
Sb(OH)3			0.00				0.06
SeO2			0.00				0.00
Si(NO3)4			0.00				0.00
SiO2			0.00				0.00
Sm(NO3)3			14.00				0.00
Sm2O3			0.00				0.00
Sm(OH)3			0.00				8.38
Sn(NO3)4			0.70				0.00
SnO2			0.00				0.00
Sn(OH)4			0.00				0.36
SrCO3			0.00				0.00
Sr(NO3)2			16.00				0.00
SrO			0.00				0.00
Sr(OH)2			0.00				0.00
SrSO4			0.00				13.88
SUGAR(C12H22O11)			0.00				0.00
Tb(NO3)3			0.00				0.00
Tb2O3			0.00				0.00
Tb(OH)3			0.00				0.00
Tc2O7			0.00				0.00
TeO2			0.00				0.00
Th(NO3)4			31,054.00				0.00
ThO2			0.00				0.00
Th(OH)4			0.00				19,408.91
TiO2			0.00				0.00
UO2(NO3)2			6.00				0.00
UO2			0.00				0.00
UO3			0.00				0.00
UO2(OH)2			0.00				4.63
Y2(CO3)3			0.00				0.00
Y(NO3)3			14.00				0.00
Y2O3			0.00				0.00
Y(OH)3			0.00				7.12
spare			0.00				0.00
Zn(NO3)2			10.00				0.00
ZnO			0.00				0.00
Zn(OH)2			0.00				5.24
Zr(NO3)4			12.00				0.00
ZrO2			35.00				35.00
Zr(OH)4			0.00				5.63
TOTAL SOLIDS			51,125	21,084		0	70,943
CO			0.00E+00				0.00E+00
CO2			0.00E+00				0.00E+00
H2			0.00E+00				0.00E+00
N2			0.00E+00				0.00E+00
NO			0.00E+00				0.00E+00
NO2			0.00E+00				0.00E+00
O2			0.00E+00				0.00E+00
SO3			0.00E+00				0.00E+00
TOTAL GASES EXCL H2O & TRACES			0.00E+00	0.00E+00		0.00E+00	0.00E+00

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED 8D2	8D2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
SO3	0.00E+00		NEGLIGIBLE		NEGLIGIBLE		
Sb(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Sb2O3	0.00E+00		2.06E-03		6.87E-05		
Sb(OH)3	7.56E-01		0.00E+00		0.00E+00		
SeO2	0.00E+00		2.69E-02		5.21E-03		
Si(NO3)4	7.04E-01		0.00E+00		0.00E+00		
SiO2	4.03E+04		6.65E+02		2.22E+01		
Sm(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Sm2O3	0.00E+00		4.24E-01		1.41E-02		
Sm(OH)3	1.51E+02		0.00E+00		0.00E+00		
Sn(NO3)4	7.50E-01		0.00E+00		0.00E+00		
SnO2	0.00E+00		8.45E-03		2.82E-04		
Sn(OH)4	2.86E+00		0.00E+00		0.00E+00		
SrCO3	0.00E+00		0.00E+00		0.00E+00		
Sr(NO3)2	1.22E-02		0.00E+00		0.00E+00		
SrO	2.24E+01		7.23E-02		2.41E-03		
Sr(OH)2	0.00E+00		0.00E+00		0.00E+00		
SrSO4	2.31E+02		7.46E-01		2.49E-02		
SUGAR(C12H22O11	0.00E+00		0.00E+00		0.00E+00		
Tb(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Tb2O3	0.00E+00		6.86E-06		2.29E-07		
Tb(OH)3	2.43E-03		0.00E+00		0.00E+00		
Tc2O7	0.00E+00		8.89E-01		1.72E-01		
TeO2	0.00E+00		1.55E-01		2.99E-02		
Th(NO3)4	0.00E+00		0.00E+00		0.00E+00		
ThO2	0.00E+00		5.52E+01		1.84E+00		
Th(OH)4	1.94E+04		0.00E+00		0.00E+00		
TiO2	1.68E+01		1.40E+01		4.65E-01		
UO2(NO3)2	0.00E+00		0.00E+00		0.00E+00		
UO2	0.00E+00		8.88E+00		2.96E-01		
UO3	0.00E+00		0.00E+00		0.00E+00		
UO2(OH)2	3.09E+03		0.00E+00		0.00E+00		
Y2(CO3)3	0.00E+00		0.00E+00		0.00E+00		
Y(NO3)3	0.00E+00		0.00E+00		0.00E+00		
Y2O3	0.00E+00		2.87E-01		9.58E-03		
Y(OH)3	1.30E+02		0.00E+00		0.00E+00		
spare	0.00E+00		0.00E+00		0.00E+00		
Zn(NO3)2	0.00E+00		0.00E+00		0.00E+00		
ZnO	0.00E+00		3.53E-01		1.18E-02		
Zn(OH)2	1.33E+02		0.00E+00		0.00E+00		
Zr(NO3)4	0.00E+00		0.00E+00		0.00E+00		
ZrO2	5.74E+01		2.61E+00		8.70E-02		
Zr(OH)4	9.70E+02		0.00E+00		0.00E+00		
TOTAL SOLIDS	226,612	0	3,182	0	102		0
CO	0.00E+00					CO	
CO2	0.00E+00					CO2	
H2	0.00E+00					H2	
N2	0.00E+00					N2	
NO	0.00E+00					NO	
NO2	0.00E+00					NO2	
O2	0.00E+00					O2	
SO3	0.00E+00					SO3	
TOTAL GASES EXCL H2O & TRACES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	TOTAL GASES EXCL H2O & TRACES	0.00E+00

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MADE-UP MELTER FEED	MELTER FEED
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
SO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Sb(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Sb2O3		2.13E-03	2.13E-03	3.18E-06		2.13E-03	2.13E-03
Sb(OH)3		7.56E-01	7.56E-01	1.13E-03		7.56E-01	7.56E-01
SeO2		3.21E-02	3.21E-02	4.80E-05		3.21E-02	3.21E-02
Si(NO3)4		7.04E-01	7.04E-01	1.05E-03		7.04E-01	7.04E-01
SiO2		4.10E+04	4.10E+04	6.13E+01	1.65E+05	2.06E+05	2.06E+05
Sm(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Sm2O3		4.38E-01	4.38E-01	6.54E-04		4.38E-01	4.38E-01
Sm(OH)3		1.51E+02	1.51E+02	2.26E-01		1.51E+02	1.51E+02
Sn(NO3)4		7.50E-01	7.50E-01	1.12E-03		7.50E-01	7.50E-01
SnO2		8.73E-03	8.73E-03	1.30E-05		8.73E-03	8.73E-03
Sn(OH)4		2.86E+00	2.86E+00	4.27E-03		2.86E+00	2.86E+00
SrCO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Sr(NO3)2		1.22E-02	1.22E-02	1.83E-05		1.22E-02	1.22E-02
SrO		2.24E+01	2.24E+01	3.35E-02		2.24E+01	2.24E+01
Sr(OH)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
SrSO4		2.32E+02	2.32E+02	3.46E-01		2.32E+02	2.32E+02
SUGAR(C12H22O11)		0.00E+00	0.00E+00	0.00E+00	1.12E+05	1.12E+05	1.12E+05
Tb(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Tb2O3		7.09E-06	7.09E-06	1.06E-08		7.09E-06	7.09E-06
Tb(OH)3		2.43E-03	2.43E-03	3.64E-06		2.43E-03	2.43E-03
Tc2O7		1.06E+00	1.06E+00	1.59E-03		1.06E+00	1.06E+00
TeO2		1.85E-01	1.85E-01	2.76E-04		1.85E-01	1.85E-01
Th(NO3)4		0.00E+00	6.87E+02	0.00E+00		6.87E+02	6.87E+02
ThO2		5.71E+01	5.71E+01	8.53E-02		5.71E+01	5.71E+01
Th(OH)4		1.94E+04	1.90E+04	2.90E+01		1.90E+04	1.90E+04
TiO2		3.12E+01	3.12E+01	4.66E-02	4.30E+03	4.33E+03	4.33E+03
UO2(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
UO2		9.18E+00	9.18E+00	1.37E-02		9.18E+00	9.18E+00
UO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
UO2(OH)2		3.09E+03	3.09E+03	4.62E+00		3.09E+03	3.09E+03
Y2(CO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Y(NO3)3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Y2O3		2.97E-01	2.97E-01	4.44E-04		2.97E-01	2.97E-01
Y(OH)3		1.10E+02	1.10E+02	1.65E-01		1.10E+02	1.10E+02
spare		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Zn(NO3)2		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
ZnO		3.65E-01	3.65E-01	5.45E-04		3.65E-01	3.65E-01
Zn(OH)2		1.33E+02	1.33E+02	1.99E-01		1.33E+02	1.33E+02
Zr(NO3)4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
ZrO2		6.01E+01	6.01E+01	8.98E-02		6.01E+01	6.01E+01
Zr(OH)4		9.70E+02	9.70E+02	1.45E+00		9.70E+02	9.70E+02
TOTAL SOLIDS		229,896	229,793	344	611,304	791,662	791,662
CO		0.00E+00	0.00E+00	0.00E+00			
CO2		0.00E+00	0.00E+00	0.00E+00	3.84E+01		
H2		0.00E+00	0.00E+00	0.00E+00			
N2		0.00E+00	0.00E+00	0.00E+00			
NO		0.00E+00	0.00E+00	0.00E+00			
NO2		0.00E+00	0.00E+00	0.00E+00			
O2		0.00E+00	0.00E+00	0.00E+00			
SO3		0.00E+00	0.00E+00	0.00E+00			
TOTAL GASES EXCL H2O & TRACES		0.00E+00	0.00E+00	0.00E+00	3.84E+01	0.00E+00	0.00E+00
		AL	AM	AN			

STREAM NUMBER	41	42		43	44	45	46
STREAM NAME	AIR INLEAKAGE TO SFCM	GLASS PRODUCTION		FILLED GLASS CANISTER (/ CANISTER)	SFCM OFF GAS	FILM COOLER AIR	PRESSURE CONTROL AIR
COMPONENT KG	kg	kg		kg	kg	kg	kg
SO3		0.00	SO3	0.0000	0.00E+00		
Sb(NO3)3		0.00	Sb(NO3)3	0.0000	0.00E+00		
Sb2O3		0.64	Sb2O3	0.0025	2.13E-03		
Sb(OH)3		0.00	Sb(OH)3	0.0000	0.00E+00		
SeO2		0.61	SeO2	0.0024	3.23E-02		
Si(NO3)4		0.00	Si(NO3)4	0.0000	0.00E+00		
SiO2		205,819.85	SiO2	809.0428	6.88E+02		
Sm(NO3)3		0.00	Sm(NO3)3	0.0000	0.00E+00		
Sm2O3		131.07	Sm2O3	0.5152	4.38E-01		
Sm(OH)3		0.00	Sm(OH)3	0.0000	0.00E+00		
Sn(NO3)4		0.00	Sn(NO3)4	0.0000	0.00E+00		
SnO2		2.61	SnO2	0.0103	8.74E-03		
Sn(OH)4		0.00	Sn(OH)4	0.0000	0.00E+00		
SrCO3		0.00	SrCO3	0.0000	0.00E+00		
Sr(NO3)2		0.00	Sr(NO3)2	0.0000	0.00E+00		
SrO		22.38	SrO	0.0880	7.48E-02		
Sr(OH)2		0.00	Sr(OH)2	0.0000	0.00E+00		
SrSO4		230.88	SrSO4	0.9076	7.72E-01		
SUGAR(C12H22O11)		0.00	SUGAR(C12H22O11	0.0000	0.00E+00		
Tb(NO3)3		0.00	Tb(NO3)3	0.0000	0.00E+00		
Tb2O3		0.00	Tb2O3	0.0000	7.09E-06		
Tb(OH)3		0.00	Tb(OH)3	0.0000	0.00E+00		
Tc2O7		9.61	Tc2O7	0.0378	1.07E+00		
TeO2		3.53	TeO2	0.0139	1.86E-01		
Th(NO3)4		0.00	Th(NO3)4	0.0000	0.00E+00		
ThO2		17,080.74	ThO2	67.1415	5.71E+01		
Th(OH)4		0.00	Th(OH)4	0.0000	0.00E+00		
TiO2		4,315.81	TiO2	16.9647	1.44E+01		
UO2(NO3)2		0.00	UO2(NO3)2	0.0000	0.00E+00		
UO2		2,746.53	UO2	10.7961	9.19E+00		
UO3		0.00	UO3	0.0000	0.00E+00		
UO2(OH)2		0.00	UO2(OH)2	0.0000	0.00E+00		
Y2(CO3)3		0.00	Y2(CO3)3	0.0000	0.00E+00		
Y(NO3)3		0.00	Y(NO3)3	0.0000	0.00E+00		
Y2O3		88.85	Y2O3	0.3493	2.97E-01		
Y(OH)3		0.00	Y(OH)3	0.0000	0.00E+00		
spare		0.00	spare	0.0000	0.00E+00		
Zn(NO3)2		0.00	Zn(NO3)2	0.0000	0.00E+00		
ZnO		109.11	ZnO	0.4289	3.65E-01		
Zn(OH)2		0.00	Zn(OH)2	0.0000	0.00E+00		
Zr(NO3)4		0.00	Zr(NO3)4	0.0000	0.00E+00		
ZrO2		807.62	ZrO2	3.1746	2.70E+00		
Zr(OH)4		0.00	Zr(OH)4	0.0000	0.00E+00		
TOTAL SOLIDS		483,359	TOTAL SOLIDS	1,900	2,777		
CO							
CO2					1.74E+05		
H2							
N2	8.89E+05				8.89E+05	2.49E+06	8.00E+05
NO							
NO2					1.42E+05		
O2	2.70E+05				1.69E+05	7.56E+05	2.43E+05
SO3					1.50E+02		
TOTAL GASES EXCL H2O & TRACES	1.16E+06	0.00E+00		0.00E+00	1.37E+06	3.24E+06	1.04E+06

STREAM NUMBER	47		48	49	50	51	52	53
STREAM NAME	OFF GAS TO SBS		SBS CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD CHEMICAL ADD	OGD OFF GAS
COMPONENT KG	kg		kg	kg	kg	kg	kg	kg
SO3	0.00E+00				0.00E+00			0.00E+00
Sb(NO3)3	0.00E+00				0.00E+00			0.00E+00
Sb2O3	2.13E-03				7.11E-05			7.11E-05
Sb(OH)3	0.00E+00				0.00E+00			0.00E+00
SeO2	3.23E-02				5.39E-03			5.39E-03
Si(NO3)4	0.00E+00				0.00E+00			0.00E+00
SiO2	6.88E+02				2.29E+01			2.29E+01
Sm(NO3)3	0.00E+00				0.00E+00			0.00E+00
Sm2O3	4.38E-01				1.46E-02			1.46E-02
Sm(OH)3	0.00E+00				0.00E+00			0.00E+00
Sn(NO3)4	0.00E+00				0.00E+00			0.00E+00
SnO2	8.74E-03				2.91E-04			2.91E-04
Sn(OH)4	0.00E+00				0.00E+00			0.00E+00
SrCO3	0.00E+00				0.00E+00			0.00E+00
Sr(NO3)2	0.00E+00				0.00E+00			0.00E+00
SrO	7.48E-02				2.49E-03			2.49E-03
Sr(OH)2	0.00E+00				0.00E+00			0.00E+00
SrSO4	7.72E-01				2.57E-02			2.57E-02
SUGAR(C12H22O11	0.00E+00				0.00E+00			0.00E+00
Tb(NO3)3	0.00E+00				0.00E+00			0.00E+00
Tb2O3	7.09E-06				2.36E-07			2.36E-07
Tb(OH)3	0.00E+00				0.00E+00			0.00E+00
Tc2O7	1.07E+00				1.78E-01			1.78E-01
TeO2	1.86E-01				3.09E-02			3.09E-02
Th(NO3)4	0.00E+00				0.00E+00			0.00E+00
ThO2	5.71E+01				1.90E+00			1.90E+00
Th(OH)4	0.00E+00				0.00E+00			0.00E+00
TiO2	1.44E+01				4.81E-01			4.81E-01
UO2(NO3)2	0.00E+00				0.00E+00			0.00E+00
UO2	9.19E+00				3.06E-01			3.06E-01
UO3	0.00E+00				0.00E+00			0.00E+00
UO2(OH)2	0.00E+00				0.00E+00			0.00E+00
Y2(CO3)3	0.00E+00				0.00E+00			0.00E+00
Y(NO3)3	0.00E+00				0.00E+00			0.00E+00
Y2O3	2.97E-01				9.91E-03			9.91E-03
Y(OH)3	0.00E+00				0.00E+00			0.00E+00
spare	0.00E+00				0.00E+00			0.00E+00
Zn(NO3)2	0.00E+00				0.00E+00			0.00E+00
ZnO	3.65E-01				1.22E-02			1.22E-02
Zn(OH)2	0.00E+00				0.00E+00			0.00E+00
Zr(NO3)4	0.00E+00				0.00E+00			0.00E+00
ZrO2	2.70E+00				9.00E-02			9.00E-02
Zr(OH)4	0.00E+00				0.00E+00			0.00E+00
TOTAL SOLIDS	2,777				102			102
CO	0.00E+00	CO			0.00E+00			0.00E+00
CO2	1.74E+05	CO2			1.74E+05			1.74E+05
H2	0.00E+00	H2			0.00E+00			0.00E+00
N2	4.18E+06	N2		4.44E+04	4.22E+06	1.78E+06		6.00E+06
NO	0.00E+00	NO			0.00E+00			0.00E+00
NO2	1.42E+05	NO2			1.41E+05			1.41E+05
O2	1.17E+06	O2		1.35E+04	1.18E+06	5.40E+05		1.72E+06
SO3	1.50E+02	SO3			NEGLIGIBLE			0.00E+00
TOTAL GASES EXCL H2O & TRACES	5.66E+06	TOTAL GASES EXCL H2O & TRACES		5.79E+04	5.72E+06	2.32E+06		8.04E+06

STREAM NUMBER	54	55	56	57	58
STREAM NAME	HEME CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS	HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS
COMPONENT KG	kg	kg	kg	kg	kg
SO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb2O3		2.37E-06	2.37E-06	2.37E-12	2.37E-12
Sb(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
SeO2		1.80E-04	1.80E-04	1.80E-10	1.80E-10
Si(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
SiO2		7.65E-01	7.65E-01	7.65E-07	7.65E-07
Sm(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sm2O3		4.87E-04	4.87E-04	4.87E-10	4.87E-10
Sm(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
SnO2		9.71E-06	9.71E-06	9.71E-12	9.71E-12
Sn(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
SrCO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
SrO		8.32E-05	8.32E-05	8.32E-11	8.32E-11
Sr(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
SrSO4		8.58E-04	8.58E-04	8.58E-10	8.58E-10
SUGAR(C12H22O11)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb2O3		7.88E-09	7.88E-09	7.88E-15	7.88E-15
Tb(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc2O7		5.93E-03	5.93E-03	5.93E-09	5.93E-09
TeO2		1.03E-03	1.03E-03	1.03E-09	1.03E-09
Th(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
ThO2		6.35E-02	6.35E-02	6.35E-08	6.35E-08
Th(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
TiO2		1.60E-02	1.60E-02	1.60E-08	1.60E-08
UO2(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2		1.02E-02	1.02E-02	1.02E-08	1.02E-08
UO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y2(CO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y(NO3)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y2O3		3.30E-04	3.30E-04	3.30E-10	3.30E-10
Y(OH)3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
spare		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn(NO3)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZnO		4.05E-04	4.05E-04	4.05E-10	4.05E-10
Zn(OH)2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr(NO3)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZrO2		3.00E-03	3.00E-03	3.00E-09	3.00E-09
Zr(OH)4		0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL SOLIDS		3	3	3.40E-06	3.40E-06
CO		0.00E+00	0.00E+00	0.00E+00	0.00E+00
CO2		1.74E+05	1.74E+05	1.74E+05	1.74E+05
H2		0.00E+00	0.00E+00	0.00E+00	0.00E+00
N2		6.00E+06	6.00E+06	6.00E+06	6.00E+06
NO		0.00E+00	0.00E+00	0.00E+00	0.00E+00
NO2		1.41E+05	1.41E+05	1.41E+05	1.41E+05
O2		1.72E+06	1.72E+06	1.72E+06	1.72E+06
SO3		0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL GASES EXCL H2O & TRACES		8.04E+06	8.04E+06	8.04E+06	8.04E+06

STREAM NUMBER			1	2	3	4	5
RADIONUCLIDE	HALF LIFE	HEAT GENERATION	THOREX SUPERNATANT	THOREX SLUDGE	THOREX WASTE	PUREX SUPERNATANT	PUREX SLUDGE
CURIE	YEARS	WATTS/CURIE	1990	1990	1990	1990	1990
			Ci	Ci	Ci	Ci	Ci
3-H	1.23E+01	3.30E-05	1.47E+00	0.00E+00	1.47E+00	8.23E+01	0.00E+00
14-C	5.73E+03	2.92E-04	1.30E-01	0.00E+00	1.30E-01	1.37E+02	0.00E+00
55-Fe	2.60E+00	3.38E-05	2.53E+02	0.00E+00	2.53E+02	0.00E+00	4.49E+02
60-Co	5.27E+00	1.54E-02	7.68E+02	0.00E+00	7.68E+02	0.00E+00	3.17E+00
59-Ni	8.00E+04	3.97E-05	2.03E+01	0.00E+00	2.03E+01	0.00E+00	8.56E+01
63-Ni	9.20E+01	3.97E-04	2.45E+03	0.00E+00	2.45E+03	8.69E+02	5.22E+03
79-Se	6.50E+04	2.49E-04	3.35E+00	0.00E+00	3.35E+00	5.68E+01	0.00E+00
90-Sr	2.91E+01	1.16E-03	4.23E+05	0.00E+00	4.23E+05	2.69E+03	6.28E+06
90-Y	7.30E-03	5.54E-03	4.23E+05	0.00E+00	4.23E+05	2.69E+03	6.28E+06
93-Zr	1.53E+06	1.16E-04	1.62E+01	0.00E+00	1.62E+01	2.56E-01	2.56E+02
93m-Nb	1.36E+01	1.77E-04	1.11E+01	0.00E+00	1.11E+01	1.73E-01	1.71E+02
99-Tc	2.13E+05	5.01E-04	1.04E+02	0.00E+00	1.04E+02	1.60E+03	0.00E+00
106-Ru	1.01E+00	5.95E-05	7.96E-02	0.00E+00	7.96E-02	1.40E-02	1.40E+01
106-Rh	9.48E-07	9.59E-03	7.97E-02	0.00E+00	7.97E-02	1.40E-02	1.40E+01
107-Pd	6.50E+06	5.93E-05	1.14E-01	0.00E+00	1.14E-01	1.09E-02	1.09E+01
113m-Cd	1.46E+01	1.68E-03	3.25E+01	0.00E+00	3.25E+01	2.09E+00	2.09E+03
121m-Sn	5.00E+01	2.00E-03	5.75E-01	0.00E+00	5.75E-01	1.69E-02	1.69E+01
126-Sn	1.00E+05	1.25E-03	3.11E+00	0.00E+00	3.11E+00	1.01E-01	1.01E+02
125-Sb	2.77E+00	3.13E-03	1.36E+02	0.00E+00	1.36E+02	2.31E+01	7.13E+03
126-Sb	3.40E+02	1.85E-02	4.35E-01	0.00E+00	4.35E-01	1.41E-02	1.41E+01
126m-Sb	3.61E-05	1.27E-02	3.11E+00	0.00E+00	3.11E+00	1.01E-01	1.01E+02
125m-Te	1.59E-01	8.41E-04	3.34E+01	0.00E+00	3.34E+01	5.67E+00	1.75E+03
129-I	1.57E+07	4.63E-04	1.80E-01	0.00E+00	1.80E-01	2.10E-01	0.00E+00
134-Cs	2.06E+00	1.02E-02	1.13E+02	0.00E+00	1.13E+02	5.07E+03	0.00E+00
135-Cs	2.30E+06	3.34E-04	5.47E+00	0.00E+00	5.47E+00	1.56E+02	0.00E+00
137-Cs	3.00E+01	1.11E-03	4.43E+05	0.00E+00	4.43E+05	6.77E+06	0.00E+00
137m-Ba	4.85E-06	3.93E-03	4.19E+05	0.00E+00	4.19E+05	6.41E+06	0.00E+00
144-Ce	7.79E-01	6.63E-04	9.63E-03	0.00E+00	9.63E-03	1.45E-06	6.38E-01
144-Pr	3.29E-05	7.35E-03	9.64E-03	0.00E+00	9.64E-03	1.45E-06	6.39E-01
146-Pm	5.50E+00	5.04E-03	3.47E-01	0.00E+00	3.47E-01	3.27E-02	1.05E+01
147-Pm	2.62E+00	3.59E-04	4.12E+03	0.00E+00	4.12E+03	2.58E+02	8.37E+04
151-Sm	9.00E+01	1.17E-04	4.67E+03	0.00E+00	4.67E+03	4.92E-01	7.96E+04
152-Eu	1.36E+01	7.58E-03	4.14E+01	0.00E+00	4.14E+01	3.92E-02	3.24E+02
154-Eu	8.60E+00	8.94E-03	1.99E+03	0.00E+00	1.99E+03	1.13E+01	9.34E+04
155-Eu	4.96E+00	7.27E-04	5.55E+02	0.00E+00	5.55E+02	1.56E+00	2.33E+04
207-Tl	9.08E-06	2.94E-03	8.19E+00	0.00E+00	8.19E+00	1.87E-08	8.55E-04
208-Tl	5.84E-06	2.35E-02	2.18E+00	0.00E+00	2.18E+00	7.31E-02	1.04E+00
209-Pb	3.76E-04	1.15E-03	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
211-Pb	6.87E-05	3.00E-03	8.22E+00	0.00E+00	8.22E+00	1.88E-08	8.57E-04
212-Pb	1.21E-03	1.90E-03	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.88E+00
211-Bi	4.05E-06	3.99E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-08	8.57E-04
212-Bi	1.15E-04	1.70E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.88E+00
213-Bi	8.68E-05	4.20E-03	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
212-Po	9.51E-15	5.30E-02	3.90E+00	0.00E+00	3.90E+00	1.30E-01	1.85E+00
213-Po	1.33E-13	5.06E-02	2.03E-01	0.00E+00	2.03E-01	1.38E-04	1.93E-03
215-Po	5.65E-11	4.46E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-08	8.57E-04
216-Po	4.76E-09	4.09E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.88E+00
217-At	1.02E-09	4.27E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
219-Rn	1.26E-07	4.15E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-08	8.57E-04
220-Rn	1.76E-06	3.80E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.88E+00
221-Fr	9.13E-06	3.86E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
223-Fr	4.15E-05	2.60E-03	1.13E-01	0.00E+00	1.13E-01	2.59E-10	1.18E-05
223-Ra	3.13E-02	3.56E-02	8.22E+00	0.00E+00	8.22E+00	1.88E-08	8.57E-04
224-Ra	1.00E-02	3.43E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.88E+00
225-Ra	4.06E-02	7.01E-04	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
228-Ra	6.70E+00	7.71E-05	1.52E+00	0.00E+00	1.52E+00	0.00E+00	5.09E-09

STREAM NUMBER	6	7	8	9	10	11	12
RADIONUCLIDE	PUREX WASTE	BD1 CONDENSATE	BD2 CHEMICAL ADD	BD2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
CURIE	1990						
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
3-H	8.23E+01				8.23E+01	7.33E+01	8.94E+00
14-C	1.37E+02				1.37E+02	1.22E+02	1.49E+01
55-Fe	4.49E+02				4.49E+02	0.00E+00	4.49E+02
60-Co	3.17E+00				3.17E+00	0.00E+00	3.17E+00
59-Ni	8.56E+01				8.56E+01	0.00E+00	8.56E+01
63-Ni	6.09E+03				6.09E+03	7.75E+02	5.32E+03
79-Se	5.68E+01				5.68E+01	5.06E+01	6.17E+00
90-Sr	6.28E+06	5.42E+02			6.28E+06	2.40E+03	6.28E+06
90-Y	6.28E+06	5.42E+02			6.28E+06	2.40E+03	6.28E+06
93-Zr	2.56E+02				2.56E+02	2.28E-01	2.56E+02
93m-Nb	1.71E+02				1.71E+02	1.54E-01	1.71E+02
99-Tc	1.60E+03				1.60E+03	1.43E+03	1.74E+02
106-Ru	1.41E+01				1.41E+01	1.25E-02	1.40E+01
106-Rh	1.41E+01				1.41E+01	1.25E-02	1.40E+01
107-Pd	1.09E+01				1.09E+01	9.72E-03	1.09E+01
113m-Cd	2.09E+03				2.09E+03	1.86E+00	2.09E+03
121m-Sn	1.69E+01				1.69E+01	1.50E-02	1.69E+01
126-Sn	1.01E+02				1.01E+02	9.00E-02	1.01E+02
125-Sb	7.15E+03				7.15E+03	2.06E+01	7.13E+03
126-Sb	1.42E+01				1.42E+01	1.26E-02	1.41E+01
126m-Sb	1.01E+02				1.01E+02	9.00E-02	1.01E+02
125m-Te	1.75E+03				1.75E+03	5.05E+00	1.75E+03
129-I	2.10E-01				2.10E-01	1.87E-01	2.28E-02
134-Cs	5.07E+03				5.07E+03	4.51E+03	5.51E+02
135-Cs	1.56E+02				1.56E+02	1.39E+02	1.70E+01
137-Cs	6.77E+06	5.44E+02			6.77E+06	6.04E+06	7.36E+05
137m-Ba	6.41E+06	5.15E+02			6.41E+06	5.71E+06	6.97E+05
144-Ce	6.38E-01				6.38E-01	1.29E-06	6.38E-01
144-Pr	6.39E-01				6.39E-01	1.29E-06	6.39E-01
146-Pm	1.05E+01				1.05E+01	2.91E-02	1.05E+01
147-Pm	8.39E+04				8.39E+04	2.30E+02	8.37E+04
151-Sm	7.96E+04				7.96E+04	4.38E-01	7.96E+04
152-Eu	3.24E+02				3.24E+02	3.50E-02	3.24E+02
154-Eu	9.35E+04				9.35E+04	1.01E+01	9.34E+04
155-Eu	2.33E+04				2.33E+04	1.39E+00	2.33E+04
207-Tl	8.55E-04				8.55E-04	1.67E-08	8.55E-04
208-Tl	1.11E+00				1.11E+00	6.51E-02	1.04E+00
209-Pb	2.11E-03				2.11E-03	1.26E-04	1.99E-03
211-Pb	8.57E-04				8.57E-04	1.67E-08	8.57E-04
212-Pb	3.09E+00				3.09E+00	1.81E-01	2.91E+00
211-Bi	8.57E-04				8.57E-04	1.67E-08	8.57E-04
212-Bi	3.09E+00				3.09E+00	1.81E-01	2.91E+00
213-Bi	2.11E-03				2.11E-03	1.26E-04	1.99E-03
212-Po	1.98E+00				1.98E+00	1.16E-01	1.86E+00
213-Po	2.07E-03				2.07E-03	1.23E-04	1.94E-03
215-Po	8.57E-04				8.57E-04	1.67E-08	8.57E-04
216-Po	3.09E+00				3.09E+00	1.81E-01	2.91E+00
217-At	2.11E-03				2.11E-03	1.26E-04	1.99E-03
219-Rn	8.57E-04				8.57E-04	1.67E-08	8.57E-04
220-Rn	3.09E+00				3.09E+00	1.81E-01	2.91E+00
221-Fr	2.11E-03				2.11E-03	1.26E-04	1.99E-03
223-Fr	1.18E-05				1.18E-05	2.31E-10	1.18E-05
223-Ra	8.57E-04				8.57E-04	1.67E-08	8.57E-04
224-Ra	3.09E+00				3.09E+00	1.81E-01	2.91E+00
225-Ra	2.11E-03				2.11E-03	1.26E-04	1.99E-03
228-Ra	5.09E-09				5.09E-09	0.00E+00	5.09E-09

STREAM NUMBER	13	14	15	16	17	18	19
RADIONUCLIDE	SLUDGE WASH	IX ZEOLITE SLURRY	SAND FILTER SLURRY	SLUDGE WASH	WASHED PUREX	8D1 WASTE BLEND	8D1 HEEL FLUSH
CURIE	WATER	8D1	8D1	SUPERNATANT	SLUDGE		
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
3-H				8.69E+00	2.52E-01	0.00E+00	
14-C				1.45E+01	4.19E-01	0.00E+00	
55-Fe				0.00E+00	4.49E+02	0.00E+00	
60-Co				0.00E+00	3.17E+00	0.00E+00	
59-Ni				0.00E+00	8.56E+01	0.00E+00	
63-Ni				9.18E+01	5.22E+03	0.00E+00	
79-Se				6.00E+00	1.74E-01	0.00E+00	
90-Sr				2.84E+02	6.28E+06	5.42E+02	
90-Y				2.84E+02	6.28E+06	5.42E+02	
93-Zr				2.70E-02	2.56E+02	0.00E+00	
93m-Nb				1.82E-02	1.71E+02	0.00E+00	
99-Tc				1.69E+02	4.90E+00	0.00E+00	
106-Ru				1.48E-03	1.40E+01	0.00E+00	
106-Rh				1.48E-03	1.40E+01	0.00E+00	
107-Pd				1.15E-03	1.09E+01	0.00E+00	
113m-Cd				2.21E-01	2.09E+03	0.00E+00	
121m-Sn				1.78E-03	1.69E+01	0.00E+00	
126-Sn				1.07E-02	1.01E+02	0.00E+00	
125-Sb				2.44E+00	7.13E+03	0.00E+00	
126-Sb				1.49E-03	1.41E+01	0.00E+00	
126m-Sb				1.07E-02	1.01E+02	0.00E+00	
125m-Te				5.99E-01	1.75E+03	0.00E+00	
129-I				2.22E-02	6.43E-04	0.00E+00	
134-Cs		5.04E+03		5.35E+02	1.55E+01	5.04E+03	
135-Cs		1.55E+02		1.65E+01	4.77E-01	1.55E+02	
137-Cs		6.75E+06		7.16E+05	2.07E+04	6.75E+06	
137m-Ba		6.38E+06		6.77E+05	1.96E+04	6.38E+06	
144-Ce				1.53E-07	6.38E-01	0.00E+00	
144-Pr				1.53E-07	6.39E-01	0.00E+00	
146-Pm				3.45E-03	1.05E+01	0.00E+00	
147-Pm				2.73E+01	8.37E+04	0.00E+00	
151-Sm				5.19E-02	7.96E+04	0.00E+00	
152-Eu				4.14E-03	3.24E+02	0.00E+00	
154-Eu				1.19E+00	9.34E+04	0.00E+00	
155-Eu				1.65E-01	2.33E+04	0.00E+00	
207-Tl				1.98E-09	8.55E-04	0.00E+00	
208-Tl				7.72E-03	1.04E+00	0.00E+00	
209-Pb				1.49E-05	1.97E-03	0.00E+00	
211-Pb				1.98E-09	8.57E-04	0.00E+00	
212-Pb				2.15E-02	2.89E+00	0.00E+00	
211-Bi				1.98E-09	8.57E-04	0.00E+00	
212-Bi				2.15E-02	2.89E+00	0.00E+00	
213-Bi				1.49E-05	1.97E-03	0.00E+00	
212-Po				1.38E-02	1.85E+00	0.00E+00	
213-Po				1.46E-05	1.93E-03	0.00E+00	
215-Po				1.98E-09	8.57E-04	0.00E+00	
216-Po				2.15E-02	2.89E+00	0.00E+00	
217-At				1.49E-05	1.97E-03	0.00E+00	
219-Rn				1.98E-09	8.57E-04	0.00E+00	
220-Rn				2.15E-02	2.89E+00	0.00E+00	
221-Fr				1.49E-05	1.97E-03	0.00E+00	
223-Fr				2.74E-11	1.18E-05	0.00E+00	
223-Ra				1.98E-09	8.57E-04	0.00E+00	
224-Ra				2.15E-02	2.89E+00	0.00E+00	
225-Ra				1.49E-05	1.97E-03	0.00E+00	
228-Ra				0.00E+00	5.09E-09	0.00E+00	

STREAM NUMBER	20	21	22	23	24	25	26
RADIONUCLIDE	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2 (50%)	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
CURIE	Ci	Ci	Ci	Ci	Ci	Ci	Ci
3-H			1.47E+00				1.47E+00
14-C			1.30E-01				1.30E-01
55-Fe			2.53E+02				2.53E+02
60-Co			7.68E+02				7.68E+02
59-Ni			2.03E+01				2.03E+01
63-Ni			2.45E+03				2.45E+03
79-Se			3.35E+00				3.35E+00
90-Sr			4.23E+05				4.23E+05
90-Y			4.23E+05				4.23E+05
93-Zr			1.62E+01				1.62E+01
93m-Nb			1.11E+01				1.11E+01
99-Tc			1.04E+02				1.04E+02
106-Ru			7.96E-02				7.96E-02
106-Rh			7.97E-02				7.97E-02
107-Pd			1.14E-01				1.14E-01
113m-Cd			3.25E+01				3.25E+01
121m-Sn			5.75E-01				5.75E-01
126-Sn			3.11E+00				3.11E+00
125-Sb			1.36E+02				1.36E+02
126-Sb			4.35E-01				4.35E-01
126m-Sb			3.11E+00				3.11E+00
125m-Te			3.34E+01				3.34E+01
129-I			1.80E-01				1.80E-01
134-Cs			1.13E+02				1.13E+02
135-Cs			5.47E+00				5.47E+00
137-Cs			4.43E+05				4.43E+05
137m-Ba			4.19E+05				4.19E+05
144-Ce			9.63E-03				9.63E-03
144-Pr			9.64E-03				9.64E-03
146-Pm			3.47E-01				3.47E-01
147-Pm			4.12E+03				4.12E+03
151-Sm			4.67E+03				4.67E+03
152-Eu			4.14E+01				4.14E+01
154-Eu			1.99E+03				1.99E+03
155-Eu			5.55E+02				5.55E+02
207-Tl			8.19E+00				8.19E+00
208-Tl			2.18E+00				2.18E+00
209-Pb			2.08E-01				2.08E-01
211-Pb			8.22E+00				8.22E+00
212-Pb			6.08E+00				6.08E+00
211-Bi			8.22E+00				8.22E+00
212-Bi			6.08E+00				6.08E+00
213-Bi			2.08E-01				2.08E-01
212-Po			3.90E+00				3.90E+00
213-Po			2.03E-01				2.03E-01
215-Po			8.22E+00				8.22E+00
216-Po			6.08E+00				6.08E+00
217-At			2.08E-01				2.08E-01
219-Rn			8.22E+00				8.22E+00
220-Rn			6.08E+00				6.08E+00
221-Fr			2.08E-01				2.08E-01
223-Fr			1.13E-01				1.13E-01
223-Ra			8.22E+00				8.22E+00
224-Ra			6.08E+00				6.08E+00
225-Ra			2.08E-01				2.08E-01
228-Ra			1.52E+00				1.52E+00

STREAM NUMBER	27	28	29	30	31	32	33
RADIONUCLIDE	VITRIFICATION SYSTEM FEED	BD2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
CURIE	BD2						
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
3-H	1.72E+00		2.01E-01		0.00E+00		
14-C	5.49E-01		NEGLIGIBLE		NEGLIGIBLE		
55-Fe	7.02E+02		2.27E+00		7.57E-02		
60-Co	7.71E+02		2.49E+00		8.31E-02		
59-Ni	1.06E+02		3.42E-01		1.14E-02		
63-Ni	7.68E+03		2.48E+01		8.27E-01		
79-Se	3.52E+00		1.55E-01		2.99E-02		
90-Sr	6.70E+06		2.17E+04		7.22E+02		
90-Y	6.70E+06		2.17E+04		7.22E+02		
93-Zr	2.72E+02		8.80E-01		2.93E-02		
93m-Nb	1.82E+02		5.88E-01		1.96E-02		
99-Tc	1.09E+02		1.01E+01		1.95E+00		
106-Ru	1.41E+01		1.49E+00		5.04E-02		
106-Rh	1.41E+01		4.57E-02		1.52E-03		
107-Pd	1.10E-01		3.56E-02		1.19E-03		
113m-Cd	2.12E+03		1.96E+02		3.80E+01		
121m-Sn	1.75E+01		5.64E-02		1.88E-03		
126-Sn	1.04E+02		3.37E-01		1.12E-02		
125-Sb	7.26E+03		2.35E+01		7.83E-01		
126-Sb	1.46E+01		4.71E-02		1.57E-03		
126m-Sb	1.04E+02		3.37E-01		1.12E-02		
125m-Te	1.78E+03		7.81E+01		1.51E+01		
129-I	1.81E-01		0.00E+00		0.00E+00		
134-Cs	5.17E+03		8.80E+01		1.70E+01		
135-Cs	1.61E+02		2.74E+00		5.30E-01		
137-Cs	7.21E+06		1.23E+05	0.00E+00	2.37E+04		
137m-Ba	6.82E+06		1.16E+05	0.00E+00	2.24E+04		
144-Ce	6.48E-01		2.09E-03		6.98E-05		
144-Pr	6.48E-01		2.10E-03		6.99E-05		
146-Pm	1.08E+01		3.50E-02		1.17E-03		
147-Pm	8.78E+04		2.84E+02		9.46E+00		
151-Sm	8.43E+04		2.73E+02		9.09E+00		
152-Eu	3.65E+02		1.18E+00		3.93E-02		
154-Eu	9.54E+04		3.09E+02		1.03E+01		
155-Eu	2.38E+04		7.70E+01		2.57E+00		
207-Tl	8.19E+00		2.65E-02		8.83E-04		
208-Tl	3.22E+00		1.04E-02		3.47E-04		
209-Pb	2.10E-01		6.77E-04		2.26E-05		
211-Pb	8.22E+00		2.66E-02		8.86E-04		
212-Pb	8.97E+00		2.90E-02		9.66E-04		
211-Bi	8.22E+00		2.66E-02		8.86E-04		
212-Bi	8.97E+00		2.90E-02		9.66E-04		
213-Bi	2.10E-01		6.77E-04		2.26E-05		
212-Po	5.75E+00		1.86E-02		6.20E-04		
213-Po	2.05E-01		6.62E-04		2.21E-05		
215-Po	8.22E+00		2.66E-02		8.86E-04		
216-Po	8.97E+00		2.90E-02		9.66E-04		
217-At	2.10E-01		6.77E-04		2.26E-05		
219-Rn	8.22E+00		2.66E-02		8.86E-04		
220-Rn	8.97E+00		2.90E-02		9.66E-04		
221-Fr	2.10E-01		6.77E-04		2.26E-05		
223-Fr	1.13E-01		3.67E-04		1.22E-05		
223-Ra	8.22E+00		2.66E-02		8.86E-04		
224-Ra	8.97E+00		2.90E-02		9.66E-04		
225-Ra	2.10E-01		6.77E-04		2.26E-05		
228-Ra	1.52E+00		4.92E-03		1.64E-04		

STREAM NUMBER	34	35	36	37	38	39	40
RADIONUCLIDE	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MADE-UP MELTER FEED	MELTER FEED
CURIE	Ci				Ci	Ci	Ci
3-H		1.92E+00	2.32E-01	1.61E+00		2.32E-01	2.32E-01
14-C		5.49E-01	5.49E-01	8.20E-04		5.49E-01	5.49E-01
55-Fe		7.05E+02	7.05E+02	1.05E+00		7.05E+02	7.05E+02
60-Co		7.74E+02	7.74E+02	1.16E+00		7.74E+02	7.74E+02
59-Ni		1.06E+02	1.06E+02	1.59E-01		1.06E+02	1.06E+02
63-Ni		7.70E+03	7.70E+03	1.15E+01		7.70E+03	7.70E+03
79-Se		3.71E+00	3.71E+00	5.54E-03		3.71E+00	3.71E+00
90-Sr		6.72E+06	6.72E+06	1.00E+04		6.72E+06	6.72E+06
90-Y		6.72E+06	6.72E+06	1.00E+04		6.72E+06	6.72E+06
93-Zr		2.73E+02	2.73E+02	4.08E-01		2.73E+02	2.73E+02
93m-Nb		1.83E+02	1.83E+02	2.73E-01		1.83E+02	1.83E+02
99-Tc		1.21E+02	1.21E+02	1.81E-01		1.21E+02	1.21E+02
106-Ru		1.57E+01	1.57E+01	2.34E-02		1.57E+01	1.57E+01
106-Rh		1.42E+01	1.42E+01	2.12E-02		1.42E+01	1.42E+01
107-Pd		1.11E+01	1.11E+01	1.65E-02		1.11E+01	1.11E+01
113m-Cd		2.36E+03	2.36E+03	3.52E+00		2.36E+03	2.36E+03
121m-Sn		1.75E+01	1.75E+01	2.62E-02		1.75E+01	1.75E+01
126-Sn		1.04E+02	1.04E+02	1.56E-01		1.04E+02	1.04E+02
125-Sb		7.29E+03	7.29E+03	1.09E+01		7.29E+03	7.29E+03
126-Sb		1.46E+01	1.46E+01	2.19E-02		1.46E+01	1.46E+01
126m-Sb		1.04E+02	1.04E+02	1.56E-01		1.04E+02	1.04E+02
125m-Te		1.87E+03	1.87E+03	2.80E+00		1.87E+03	1.87E+03
129-I		1.81E-01	1.81E-01	2.70E-04		1.81E-01	1.81E-01
134-Cs		5.28E+03	5.28E+03	7.89E+00		5.28E+03	5.28E+03
135-Cs		1.65E+02	1.65E+02	2.46E-01		1.65E+02	1.65E+02
137-Cs		7.36E+06	7.36E+06	1.10E+04		7.36E+06	7.36E+06
137m-Ba		6.96E+06	6.96E+06	1.04E+04		6.96E+06	6.96E+06
144-Ce		6.50E-01	6.50E-01	9.71E-04		6.50E-01	6.50E-01
144-Pr		6.50E-01	6.50E-01	9.72E-04		6.50E-01	6.50E-01
146-Pm		1.09E+01	1.09E+01	1.62E-02		1.09E+01	1.09E+01
147-Pm		8.81E+04	8.81E+04	1.32E+02		8.81E+04	8.81E+04
151-Sm		8.46E+04	8.46E+04	1.26E+02		8.46E+04	8.46E+04
152-Eu		3.66E+02	3.66E+02	5.47E-01		3.66E+02	3.66E+02
154-Eu		9.57E+04	9.57E+04	1.43E+02		9.57E+04	9.57E+04
155-Eu		2.39E+04	2.39E+04	3.57E+01		2.39E+04	2.39E+04
207-Tl		8.22E+00	8.22E+00	1.23E-02		8.22E+00	8.22E+00
208-Tl		3.23E+00	3.23E+00	4.83E-03		3.23E+00	3.23E+00
209-Pb		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
211-Pb		8.25E+00	8.25E+00	1.23E-02		8.25E+00	8.25E+00
212-Pb		9.00E+00	9.00E+00	1.34E-02		9.00E+00	9.00E+00
211-Bi		8.25E+00	8.25E+00	1.23E-02		8.25E+00	8.25E+00
212-Bi		9.00E+00	9.00E+00	1.34E-02		9.00E+00	9.00E+00
213-Bi		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
212-Po		5.77E+00	5.77E+00	8.62E-03		5.77E+00	5.77E+00
213-Po		2.06E-01	2.06E-01	3.07E-04		2.06E-01	2.06E-01
215-Po		8.25E+00	8.25E+00	1.23E-02		8.25E+00	8.25E+00
216-Po		9.00E+00	9.00E+00	1.34E-02		9.00E+00	9.00E+00
217-At		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
219-Rn		8.25E+00	8.25E+00	1.23E-02		8.25E+00	8.25E+00
220-Rn		9.00E+00	9.00E+00	1.34E-02		9.00E+00	9.00E+00
221-Fr		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
223-Fr		1.14E-01	1.14E-01	1.70E-04		1.14E-01	1.14E-01
223-Ra		8.25E+00	8.25E+00	1.23E-02		8.25E+00	8.25E+00
224-Ra		9.00E+00	9.00E+00	1.34E-02		9.00E+00	9.00E+00
225-Ra		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
228-Ra		1.53E+00	1.53E+00	2.28E-03		1.53E+00	1.53E+00

STREAM NUMBER	41	42		43	44	45	46
RADIONUCLIDE	AIR INLEAKAGE	GLASS PRODUCTION		FILLED GLASS CANISTERS	SFCM OFF GAS	FILM COOLER AIR	PRESSURE CONTROL AIR
CURIE	TO SFCM						
	Ci	Ci		Ci	Ci	Ci	Ci
3-H		0.00	3-H	0.00	2.32E-01		
14-C		0.00	14-C	0.00	5.49E-01		
55-Fe		702.46	55-Fe	2.76	2.35E+00		
60-Co		771.49	60-Co	3.03	2.58E+00		
59-Ni		105.90	59-Ni	0.42	3.54E-01		
63-Ni		7,677.19	63-Ni	30.18	2.57E+01		
79-Se		3.52	79-Se	0.01	1.85E-01		
90-Sr		6,698,395.45	90-Sr	26,330.25	2.24E+04		
90-Y		6,700,172.78	90-Y	26,337.24	2.24E+04		
93-Zr		272.20	93-Zr	1.07	9.10E-01		
93m-Nb		181.99	93m-Nb	0.72	6.09E-01		
99-Tc		108.83	99-Tc	0.43	1.21E+01		
106-Ru		14.09	106-Ru	0.06	1.57E+00		
106-Rh		14.12	106-Rh	0.06	4.72E-02		
107-Pd		11.01	107-Pd	0.04	3.68E-02		
113m-Cd		2,121.22	113m-Cd	8.34	2.36E+02		
121m-Sn		17.46	121m-Sn	0.07	5.84E-02		
126-Sn		104.11	126-Sn	0.41	3.48E-01		
125-Sb		7,264.26	125-Sb	28.55	2.43E+01		
126-Sb		14.58	126-Sb	0.06	4.87E-02		
126m-Sb		104.11	126m-Sb	0.41	3.48E-01		
125m-Te		1,779.98	125m-Te	7.00	9.37E+01		
129-I		0.00	129-I	0.00	1.81E-01		
134-Cs		5,172.88	134-Cs	20.33	1.06E+02		
135-Cs		161.30	135-Cs	0.63	3.29E+00		
137-Cs		7,209,988.70	137-Cs	28,341.24	1.47E+05		
137m-Ba		6,820,745.89	137m-Ba	26,811.19	1.39E+05		
144-Ce		0.65	144-Ce	0.00	2.17E-03		
144-Pr		0.65	144-Pr	0.00	2.17E-03		
146-Pm		10.83	146-Pm	0.04	3.62E-02		
147-Pm		87,773.40	147-Pm	345.02	2.94E+02		
151-Sm		84,309.07	151-Sm	331.40	2.82E+02		
152-Eu		364.91	152-Eu	1.43	1.22E+00		
154-Eu		95,427.31	154-Eu	375.11	3.19E+02		
155-Eu		23,832.08	155-Eu	93.68	7.97E+01		
207-Tl		8.19	207-Tl	0.03	2.74E-02		
208-Tl		3.22	208-Tl	0.01	1.08E-02		
209-Pb		0.21	209-Pb	0.00	7.01E-04		
211-Pb		8.22	211-Pb	0.03	2.75E-02		
212-Pb		8.97	212-Pb	0.04	3.00E-02		
211-Bi		8.22	211-Bi	0.03	2.75E-02		
212-Bi		8.97	212-Bi	0.04	3.00E-02		
213-Bi		0.21	213-Bi	0.00	7.01E-04		
212-Po		5.75	212-Po	0.02	1.92E-02		
213-Po		0.20	213-Po	0.00	6.85E-04		
215-Po		8.22	215-Po	0.03	2.75E-02		
216-Po		8.97	216-Po	0.04	3.00E-02		
217-At		0.21	217-At	0.00	7.01E-04		
219-Rn		8.22	219-Rn	0.03	2.75E-02		
220-Rn		8.97	220-Rn	0.04	3.00E-02		
221-Fr		0.21	221-Fr	0.00	7.01E-04		
223-Fr		0.11	223-Fr	0.00	3.79E-04		
223-Ra		8.22	223-Ra	0.03	2.75E-02		
224-Ra		8.97	224-Ra	0.04	3.00E-02		
225-Ra		0.21	225-Ra	0.00	7.01E-04		
228-Ra		1.52	228-Ra	0.01	5.09E-03		

STREAM NUMBER	47	48	49	50	51	52	53
RADIONUCLIDE	OFF GAS TO SBS	SBS CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD CHEMICAL ADD	OGD OFF GAS
CURIE							
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
3-H	2.32E-01			3.08E-02			3.08E-02
14-C	5.49E-01			5.49E-01			5.49E-01
55-Fe	2.35E+00			7.83E-02			7.83E-02
60-Co	2.58E+00			8.60E-02			8.60E-02
59-Ni	3.54E-01			1.18E-02			1.18E-02
63-Ni	2.57E+01			8.56E-01			8.56E-01
79-Se	1.85E-01			3.09E-02			3.09E-02
90-Sr	2.24E+04			7.47E+02			7.47E+02
90-Y	2.24E+04			7.47E+02			7.47E+02
93-Zr	9.10E-01			3.03E-02			3.03E-02
93m-Nb	6.09E-01			2.03E-02			2.03E-02
99-Tc	1.21E+01			2.02E+00			2.02E+00
106-Ru	1.57E+00			5.22E-02			5.22E-02
106-Rh	4.72E-02			1.57E-03			1.57E-03
107-Pd	3.68E-02			1.23E-03			1.23E-03
113m-Cd	2.36E+02			3.93E+01			3.93E+01
121m-Sn	5.84E-02			1.95E-03			1.95E-03
126-Sn	3.48E-01			1.16E-02			1.16E-02
125-Sb	2.43E+01			8.10E-01			8.10E-01
126-Sb	4.87E-02			1.62E-03			1.62E-03
126m-Sb	3.48E-01			1.16E-02			1.16E-02
125m-Te	9.37E+01			1.56E+01			1.56E+01
129-I	1.81E-01			1.81E-01			1.81E-01
134-Cs	1.06E+02			1.76E+01			1.76E+01
135-Cs	3.29E+00			5.49E-01			5.49E-01
137-Cs	1.47E+05			2.45E+04			2.45E+04
137m-Ba	1.39E+05			2.32E+04			2.32E+04
144-Ce	2.17E-03			7.22E-05			7.22E-05
144-Pr	2.17E-03			7.23E-05			7.23E-05
146-Pm	3.62E-02			1.21E-03			1.21E-03
147-Pm	2.94E+02			9.79E+00			9.79E+00
151-Sm	2.82E+02			9.40E+00			9.40E+00
152-Eu	1.22E+00			4.07E-02			4.07E-02
154-Eu	3.19E+02			1.06E+01			1.06E+01
155-Eu	7.97E+01			2.66E+00			2.66E+00
207-Tl	2.74E-02			9.14E-04			9.14E-04
208-Tl	1.08E-02			3.59E-04			3.59E-04
209-Pb	7.01E-04			2.34E-05			2.34E-05
211-Pb	2.75E-02			9.16E-04			9.16E-04
212-Pb	3.00E-02			1.00E-03			1.00E-03
211-Bi	2.75E-02			9.16E-04			9.16E-04
212-Bi	3.00E-02			1.00E-03			1.00E-03
213-Bi	7.01E-04			2.34E-05			2.34E-05
212-Po	1.92E-02			6.41E-04			6.41E-04
213-Po	6.85E-04			2.28E-05			2.28E-05
215-Po	2.75E-02			9.16E-04			9.16E-04
216-Po	3.00E-02			1.00E-03			1.00E-03
217-At	7.01E-04			2.34E-05			2.34E-05
219-Rn	2.75E-02			9.16E-04			9.16E-04
220-Rn	3.00E-02			1.00E-03			1.00E-03
221-Fr	7.01E-04			2.34E-05			2.34E-05
223-Fr	3.79E-04			1.26E-05			1.26E-05
223-Ra	2.75E-02			9.16E-04			9.16E-04
224-Ra	3.00E-02			1.00E-03			1.00E-03
225-Ra	7.01E-04			2.34E-05			2.34E-05
228-Ra	5.09E-03			1.70E-04			1.70E-04

STREAM NUMBER	54	55	56	57	58
RADIONUCLIDE	HEME CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS	HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS
CURIE	Ci	Ci	Ci	Ci	Ci
3-H		3.08E-02	3.08E-02	3.08E-02	3.08E-02
14-C		5.49E-01	5.49E-01	5.49E-01	5.49E-01
55-Fe		2.61E-03	2.61E-03	2.61E-09	2.61E-09
60-Co		2.87E-03	2.87E-03	2.87E-09	2.87E-09
59-Ni		3.94E-04	3.94E-04	3.94E-10	3.94E-10
63-Ni		2.85E-02	2.85E-02	2.85E-08	2.85E-08
79-Se		1.03E-03	1.03E-03	1.03E-09	1.03E-09
90-Sr		2.49E+01	2.49E+01	2.49E-05	2.49E-05
90-Y		2.49E+01	2.49E+01	2.49E-05	2.49E-05
93-Zr		1.01E-03	1.01E-03	1.01E-09	1.01E-09
93m-Nb		6.76E-04	6.76E-04	6.76E-10	6.76E-10
99-Tc		6.72E-02	6.72E-02	6.72E-08	6.72E-08
106-Ru		1.74E-03	1.74E-03	1.74E-09	1.74E-09
106-Rh		5.25E-05	5.25E-05	5.25E-11	5.25E-11
107-Pd		4.09E-05	4.09E-05	4.09E-11	4.09E-11
113m-Cd		1.31E+00	1.31E+00	1.31E-06	1.31E-06
121m-Sn		6.49E-05	6.49E-05	6.49E-11	6.49E-11
126-Sn		3.87E-04	3.87E-04	3.87E-10	3.87E-10
125-Sb		2.70E-02	2.70E-02	2.70E-08	2.70E-08
126-Sb		5.42E-05	5.42E-05	5.42E-11	5.42E-11
126m-Sb		3.87E-04	3.87E-04	3.87E-10	3.87E-10
125m-Te		5.20E-01	5.20E-01	5.20E-07	5.20E-07
129-I		1.81E-01	1.81E-01	1.81E-01	1.81E-01
134-Cs		5.86E-01	5.86E-01	5.86E-07	5.86E-07
135-Cs		1.83E-02	1.83E-02	1.83E-08	1.83E-08
137-Cs		8.17E+02	8.17E+02	8.17E-04	8.17E-04
137m-Ba		7.73E+02	7.73E+02	7.73E-04	7.73E-04
144-Ce		2.41E-06	2.41E-06	2.41E-12	2.41E-12
144-Pr		2.41E-06	2.41E-06	2.41E-12	2.41E-12
146-Pm		4.02E-05	4.02E-05	4.02E-11	4.02E-11
147-Pm		3.26E-01	3.26E-01	3.26E-07	3.26E-07
151-Sm		3.13E-01	3.13E-01	3.13E-07	3.13E-07
152-Eu		1.36E-03	1.36E-03	1.36E-09	1.36E-09
154-Eu		3.55E-01	3.55E-01	3.55E-07	3.55E-07
155-Eu		8.86E-02	8.86E-02	8.86E-08	8.86E-08
207-Tl		3.05E-05	3.05E-05	3.05E-11	3.05E-11
208-Tl		1.20E-05	1.20E-05	1.20E-11	1.20E-11
209-Pb		7.79E-07	7.79E-07	7.79E-13	7.79E-13
211-Pb		3.05E-05	3.05E-05	3.05E-11	3.05E-11
212-Pb		3.33E-05	3.33E-05	3.33E-11	3.33E-11
211-Bi		3.05E-05	3.05E-05	3.05E-11	3.05E-11
212-Bi		3.33E-05	3.33E-05	3.33E-11	3.33E-11
213-Bi		7.79E-07	7.79E-07	7.79E-13	7.79E-13
212-Po		2.14E-05	2.14E-05	2.14E-11	2.14E-11
213-Po		7.61E-07	7.61E-07	7.61E-13	7.61E-13
215-Po		3.05E-05	3.05E-05	3.05E-11	3.05E-11
216-Po		3.33E-05	3.33E-05	3.33E-11	3.33E-11
217-At		7.79E-07	7.79E-07	7.79E-13	7.79E-13
219-Rn		3.05E-05	3.05E-05	3.05E-11	3.05E-11
220-Rn		3.33E-05	3.33E-05	3.33E-11	3.33E-11
221-Fr		7.79E-07	7.79E-07	7.79E-13	7.79E-13
223-Fr		4.22E-07	4.22E-07	4.22E-13	4.22E-13
223-Ra		3.05E-05	3.05E-05	3.05E-11	3.05E-11
224-Ra		3.33E-05	3.33E-05	3.33E-11	3.33E-11
225-Ra		7.79E-07	7.79E-07	7.79E-13	7.79E-13
228-Ra		5.66E-06	5.66E-06	5.66E-12	5.66E-12

STREAM NUMBER			1	2	3	4	5
RADIONUCLIDE	HALF LIFE	HEAT GENERATION	THOREX SUPERNATANT	THOREX SLUDGE	THOREX WASTE	PUREX SUPERNATANT	PUREX SLUDGE
CURIE	YEARS	WATTS/CURIE	1990	1990	1990	1990	1990
			Ci	Ci	Ci	Ci	Ci
225-Ac	2.74E-02	3.49E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
227-Ac	2.18E+01	4.84E-04	8.22E+00	0.00E+00	8.22E+00	1.88E-08	8.57E-04
228-Ac	7.00E-04	8.64E-03	1.52E+00	0.00E+00	1.52E+00	0.00E+00	5.09E-09
227-Th	5.13E-02	3.65E-02	8.10E+00	0.00E+00	8.10E+00	1.85E-08	8.45E-04
228-Th	1.92E+00	3.27E-02	6.08E+00	0.00E+00	6.08E+00	2.04E-01	2.88E+00
229-Th	7.34E+03	3.06E-02	2.08E-01	0.00E+00	2.08E-01	1.41E-04	1.97E-03
230-Th	7.70E+04	2.83E-02	4.38E-02	0.00E+00	4.38E-02	7.57E-06	1.46E-02
231-Th	2.91E-03	5.61E-04	5.17E-03	0.00E+00	5.17E-03	6.41E-03	8.94E-02
232-Th	1.41E+10	2.42E-02	1.64E+00	0.00E+00	1.64E+00	0.00E+00	5.87E-09
234-Th	6.60E-02	4.06E-04	7.11E-05	0.00E+00	7.11E-05	5.71E-02	7.97E-01
231-Pa	3.28E+04	3.01E-02	1.52E+01	0.00E+00	1.52E+01	4.06E-07	2.98E-04
233-Pa	7.40E-02	2.27E-03	3.02E-01	0.00E+00	3.02E-01	3.25E-06	2.31E+01
234m-Pa	2.23E-06	4.94E-03	7.11E-05	0.00E+00	7.11E-05	5.71E-02	7.97E-01
232-U	7.20E+01	3.21E-02	2.66E+00	0.00E+00	2.66E+00	3.04E-01	4.26E+00
233-U	1.59E+05	2.91E-03	2.09E+00	0.00E+00	2.09E+00	4.98E-01	6.94E+00
234-U	2.45E+05	2.88E-02	2.21E-01	0.00E+00	2.21E-01	2.81E-01	3.97E+00
235-U	7.04E+08	2.62E-02	5.17E-03	0.00E+00	5.17E-03	6.41E-03	8.94E-02
236-U	2.34E+07	2.71E-02	9.80E-03	0.00E+00	9.80E-03	1.91E-02	2.67E-01
238-U	4.47E+09	2.54E-02	7.11E-05	0.00E+00	7.11E-05	5.71E-02	7.97E-01
236-Np	1.15E+05	2.02E-03	1.23E-01	0.00E+00	1.23E-01	0.00E+00	9.35E+00
237-Np	2.14E+06	3.06E-02	3.02E-01	0.00E+00	3.02E-01	3.25E-06	2.31E+01
239-Np	6.45E-03	2.42E-03	7.83E+00	0.00E+00	7.83E+00	0.00E+00	3.39E+02
236-Pu	2.85E+00	3.48E-02	1.09E-02	0.00E+00	1.09E-02	6.56E-03	8.28E-01
238-Pu	8.78E+01	3.31E-02	4.69E+02	0.00E+00	4.69E+02	1.24E+02	7.82E+03
239-Pu	2.41E+04	3.08E-02	1.54E+01	0.00E+00	1.54E+01	2.54E+01	1.61E+03
240-Pu	6.54E+03	3.11E-02	8.09E+00	0.00E+00	8.09E+00	1.87E+01	1.18E+03
241-Pu	1.44E+01	3.10E-05	7.36E+02	0.00E+00	7.36E+02	1.26E+03	7.99E+04
242-Pu	3.87E+05	2.95E-02	1.19E-02	0.00E+00	1.19E-02	2.54E-02	1.61E+00
241-Am	4.32E+02	3.32E-02	2.44E+02	0.00E+00	2.44E+02	6.53E+00	5.32E+04
242-Am	1.83E-03	1.14E-03	6.66E+00	0.00E+00	6.66E+00	0.00E+00	2.89E+02
242m-Am	1.52E+02	3.95E-04	6.70E+00	0.00E+00	6.70E+00	0.00E+00	2.90E+02
243-Am	7.38E+03	3.21E-02	7.83E+00	0.00E+00	7.83E+00	0.00E+00	3.39E+02
242-Cm	4.47E-01	1.16E-03	5.53E+00	0.00E+00	5.53E+00	0.00E+00	2.39E+02
243-Cm	2.85E+01	3.67E-02	2.18E-01	0.00E+00	2.18E-01	0.00E+00	1.34E+02
244-Cm	1.81E+01	3.50E-02	1.22E+01	0.00E+00	1.22E+01	0.00E+00	7.63E+03
245-Cm	8.50E+03	3.32E-02	2.00E-02	0.00E+00	2.00E-02	0.00E+00	8.62E-01
246-Cm	4.74E+03	3.27E-02	2.29E-03	0.00E+00	2.29E-03	0.00E+00	9.87E-02

TOTALS					
WEIGHT,KG	85,238	35.00	85,273	2,856,202	97,171
VOLUME,L	51,328	6.00	51,334	2,252,000	27,700
ACTIVITY,Ci	1,724,936	0.00E+00	1,724,936	13,197,046	13,002,812
ACTINIDES,Ci	1,519	0.00E+00	1,519	1,438	152,957
HEAT GEN.,W	5,036	0.00E+00	5,036	32,780	45,377
SpG	1.66	5.85	1.66	1.27	3.50

STREAM NUMBER	6	7	8	9	10	11	12
RADIONUCLIDE	PUREX WASTE	8D1 CONDENSATE	8D2 CHEMICAL ADD	8D2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
CURIE	1990						
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
225-Ac	2.11E-03				2.11E-03	1.26E-04	1.99E-03
227-Ac	8.57E-04				8.57E-04	1.67E-08	8.57E-04
228-Ac	5.09E-09				5.09E-09	0.00E+00	5.09E-09
227-Th	8.45E-04				8.45E-04	1.65E-08	8.45E-04
228-Th	3.09E+00				3.09E+00	1.81E-01	2.91E+00
229-Th	2.11E-03				2.11E-03	1.26E-04	1.99E-03
230-Th	1.46E-02				1.46E-02	6.75E-06	1.46E-02
231-Th	9.58E-02				9.58E-02	5.71E-03	9.01E-02
232-Th	5.87E-09				5.87E-09	0.00E+00	5.87E-09
234-Th	8.54E-01				8.54E-01	5.09E-02	8.03E-01
231-Pa	2.98E-04				2.98E-04	3.62E-07	2.98E-04
233-Pa	2.31E+01				2.31E+01	2.90E-06	2.31E+01
234m-Pa	8.54E-01				8.54E-01	5.09E-02	8.03E-01
232-U	4.56E+00				4.56E+00	2.71E-01	4.29E+00
233-U	7.44E+00				7.44E+00	4.44E-01	6.99E+00
234-U	4.25E+00				4.25E+00	2.51E-01	4.00E+00
235-U	9.58E-02				9.58E-02	5.71E-03	9.01E-02
236-U	2.86E-01				2.86E-01	1.70E-02	2.69E-01
238-U	8.54E-01				8.54E-01	5.09E-02	8.03E-01
236-Np	9.35E+00				9.35E+00	0.00E+00	9.35E+00
237-Np	2.31E+01				2.31E+01	2.90E-06	2.31E+01
239-Np	3.39E+02				3.39E+02	0.00E+00	3.39E+02
236-Pu	8.35E-01				8.35E-01	5.84E-03	8.29E-01
238-Pu	7.94E+03				7.94E+03	1.11E+02	7.83E+03
239-Pu	1.64E+03				1.64E+03	2.26E+01	1.61E+03
240-Pu	1.20E+03				1.20E+03	1.67E+01	1.18E+03
241-Pu	8.12E+04				8.12E+04	1.13E+03	8.00E+04
242-Pu	1.64E+00				1.64E+00	2.26E-02	1.61E+00
241-Am	5.32E+04				5.32E+04	5.82E+00	5.32E+04
242-Am	2.89E+02				2.89E+02	0.00E+00	2.89E+02
242m-Am	2.90E+02				2.90E+02	0.00E+00	2.90E+02
243-Am	3.39E+02				3.39E+02	0.00E+00	3.39E+02
242-Cm	2.39E+02				2.39E+02	0.00E+00	2.39E+02
243-Cm	1.34E+02				1.34E+02	0.00E+00	1.34E+02
244-Cm	7.63E+03				7.63E+03	0.00E+00	7.63E+03
245-Cm	8.62E-01				8.62E-01	0.00E+00	8.62E-01
246-Cm	9.87E-02				9.87E-02	0.00E+00	9.87E-02

TOTALS

WEIGHT,KG	2,953,373	659,000	WEIGHT,KG	2,953,373	2,545,723	407,650
VOLUME,L	2,270,000	654,000	VOLUME,L	2,270,000	2,007,200	272,500
ACTIVITY,Ci	26,199,858	2,142	ACTIVITY,Ci	26,199,858	11,762,483	14,437,375
ACTINIDES,Ci	154,395	0.00E+00	ACTINIDES,Ci	154,395	1,282	153,113
HEAT GEN.,W	78,157	6.26	HEAT GEN.,W	78,157	29,217	48,940
SpG	1.30	1.01	SpG		1.27	1.50

STREAM NUMBER	13	14	15	16	17	18	19
RADIONUCLIDE	SLUDGE WASH	IX ZEOLITE SLURRY	SAND FILTER SLURRY	SLUDGE WASH	WASHED PUREX	8D1 WASTE BLEND	8D1 HEEL FLUSH
CURIE	WATER	8D1	8D1	SUPERNATANT	SLUDGE		
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
225-Ac				1.49E-05	1.97E-03	0.00E+00	
227-Ac				1.98E-09	8.57E-04	0.00E+00	
228-Ac				0.00E+00	5.09E-09	0.00E+00	
227-Th				1.96E-09	8.45E-04	0.00E+00	
228-Th				2.15E-02	2.89E+00	0.00E+00	
229-Th				1.49E-05	1.97E-03	0.00E+00	
230-Th				8.00E-07	1.48E-02	0.00E+00	
231-Th				6.77E-04	8.94E-02	0.00E+00	
232-Th				0.00E+00	5.87E-09	0.00E+00	
234-Th				6.03E-03	7.97E-01	0.00E+00	
231-Pa				4.29E-08	2.98E-04	0.00E+00	
233-Pa				3.43E-07	2.31E+01	0.00E+00	
234m-Pa				6.03E-03	7.97E-01	0.00E+00	
232-U				3.22E-02	4.26E+00	0.00E+00	
233-U				5.26E-02	6.94E+00	0.00E+00	
234-U				2.97E-02	3.97E+00	0.00E+00	
235-U				6.77E-04	8.94E-02	0.00E+00	
236-U				2.02E-03	2.67E-01	0.00E+00	
238-U				6.03E-03	7.97E-01	0.00E+00	
236-Np				0.00E+00	9.35E+00	0.00E+00	
237-Np				3.43E-07	2.31E+01	0.00E+00	
239-Np				0.00E+00	3.39E+02	0.00E+00	
236-Pu				6.93E-04	8.28E-01	0.00E+00	
238-Pu				1.31E+01	7.82E+03	0.00E+00	
239-Pu				2.68E+00	1.61E+03	0.00E+00	
240-Pu				1.97E+00	1.18E+03	0.00E+00	
241-Pu				1.34E+02	7.99E+04	0.00E+00	
242-Pu				2.68E-03	1.61E+00	0.00E+00	
241-Am				6.89E-01	5.32E+04	0.00E+00	
242-Am				0.00E+00	2.89E+02	0.00E+00	
242m-Am				0.00E+00	2.90E+02	0.00E+00	
243-Am				0.00E+00	3.39E+02	0.00E+00	
242-Cm				0.00E+00	2.39E+02	0.00E+00	
243-Cm				0.00E+00	1.34E+02	0.00E+00	
244-Cm				0.00E+00	7.63E+03	0.00E+00	
245-Cm				0.00E+00	8.62E-01	0.00E+00	
246-Cm				0.00E+00	9.87E-02	0.00E+00	
TOTALS							
WEIGHT,KG	1,618,628	241,331	3,455	2,483,775	508,926	903,786	WEIGHT,KG
VOLUME,L	1,618,628	224,145	3,198	2,364,500	436,000	881,343	VOLUME,L
ACTIVITY,Ci	0.00E+00	13,133,669	Negligible	1,394,175	13,043,201	13,135,812	ACTIVITY,Ci
ACTINIDES,Ci	0.00E+00	0.00E+00	Negligible	151.96	152,961	0.00E+00	ACTINIDES,Ci
HEAT GEN.,W	0.00E+00	32,622	Negligible	3,463	45,477	32,628	HEAT GEN.,W
SpG	1.00	1.08	1.08	1.05	1.17	1.03	SpG

STREAM NUMBER	20	21	22	23	24	25	26
RADIONUCLIDE	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2 (50%)	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
CURIE	Ci	Ci	Ci	Ci	Ci	Ci	Ci
225-Ac			2.08E-01				2.08E-01
227-Ac			8.22E+00				8.22E+00
228-Ac			1.52E+00				1.52E+00
227-Th			8.10E+00				8.10E+00
228-Th			6.08E+00				6.08E+00
229-Th			2.08E-01				2.08E-01
230-Th			4.38E-02				4.38E-02
231-Th			5.17E-03				5.17E-03
232-Th			1.64E+00				1.64E+00
234-Th			7.11E-05				7.11E-05
231-Pa			1.52E+01				1.52E+01
233-Pa			3.02E-01				3.02E-01
234m-Pa			7.11E-05				7.11E-05
232-U			2.66E+00				2.66E+00
233-U			2.09E+00				2.09E+00
234-U			2.21E-01				2.21E-01
235-U			5.17E-03				5.17E-03
236-U			9.80E-03				9.80E-03
238-U			7.11E-05				7.11E-05
236-Np			1.23E-01				1.23E-01
237-Np			3.02E-01				3.02E-01
239-Np			7.83E+00				7.83E+00
236-Pu			1.09E-02				1.09E-02
238-Pu			4.69E+02				4.69E+02
239-Pu			1.54E+01				1.54E+01
240-Pu			8.09E+00				8.09E+00
241-Pu			7.36E+02				7.36E+02
242-Pu			1.19E-02				1.19E-02
241-Am			2.44E+02				2.44E+02
242-Am			6.66E+00				6.66E+00
242m-Am			6.70E+00				6.70E+00
243-Am			7.83E+00				7.83E+00
242-Cm			5.53E+00				5.53E+00
243-Cm			2.18E-01				2.18E-01
244-Cm			1.22E+01				1.22E+01
245-Cm			2.00E-02				2.00E-02
246-Cm			2.29E-03				2.29E-03
TOTALS							
WEIGHT,KG			85,273	42,168	WEIGHT,KG	6,400	133,517
VOLUME,L			51,334	27,651	VOLUME,L	6,400	85,385
ACTIVITY,Ci			1,724,936	0.00E+00	ACTIVITY,Ci	0.00E+00	1,724,936
ACTINIDES,Ci			1,519	0.00E+00	ACTINIDES,Ci	0.00E+00	1,519
HEAT GEN.,W			5,036	0.00E+00	HEAT GEN.,W	0.00E+00	5,036
SpG			1.66	1.53	SpG	1.00	1.56

STREAM NUMBER	27	28	29	30	31	32	33
RADIONUCLIDE	VITRIFICATION SYSTEM FEED	BD2 SLURRY TRANSFER	SBS RECYCLE	CANISTER DECON SOLN	HEME FLUSH/COND	LWTS CONCENTRATE	WASTE HEADER RECYCLE
CURIE	BD2	FLUSH		RECYCLE	RECYCLE	RECYCLE	
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
225-Ac	2.10E-01		6.77E-04		2.26E-05		
227-Ac	8.22E+00		2.66E-02		8.86E-04		
228-Ac	1.52E+00		4.92E-03		1.64E-04		
227-Th	8.10E+00		2.62E-02		8.73E-04		
228-Th	8.97E+00		2.90E-02		9.66E-04		
229-Th	2.10E-01		6.77E-04		2.26E-05		
230-Th	5.84E-02		1.89E-04		6.29E-06		
231-Th	9.46E-02		3.06E-04		1.02E-05		
232-Th	1.64E+00		5.30E-03		1.77E-04		
234-Th	7.97E-01		2.58E-03		8.59E-05		
231-Pa	1.52E+01		4.91E-02		1.64E-03		
233-Pa	2.34E+01		7.55E-02		2.52E-03		
234m-Pa	7.97E-01		2.58E-03		8.59E-05		
232-U	6.92E+00		2.24E-02		7.46E-04		
233-U	9.03E+00		2.92E-02		9.73E-04		
234-U	4.19E+00		1.35E-02		4.51E-04		
235-U	9.46E-02		3.06E-04		1.02E-05		
236-U	2.77E-01		8.95E-04		2.98E-05		
238-U	7.97E-01		2.58E-03		8.59E-05		
236-Np	9.47E+00		3.06E-02		1.02E-03		
237-Np	2.34E+01		7.55E-02		2.52E-03		
239-Np	3.47E+02		1.12E+00		3.74E-02		
236-Pu	8.39E-01		2.71E-03		9.04E-05		
238-Pu	8.29E+03		2.68E+01		8.93E-01		
239-Pu	1.63E+03		5.25E+00		1.75E-01		
240-Pu	1.19E+03		3.85E+00		1.28E-01		
241-Pu	8.06E+04		2.61E+02		8.69E+00		
242-Pu	1.62E+00		5.24E-03		1.75E-04		
241-Am	5.34E+04		1.73E+02		5.75E+00		
242-Am	2.95E+02		9.54E-01		3.18E-02		
242m-Am	2.97E+02		9.59E-01		3.20E-02		
243-Am	3.47E+02		1.12E+00		3.74E-02		
242-Cm	2.45E+02		7.92E-01		2.64E-02		
243-Cm	1.34E+02		4.33E-01		1.44E-02		
244-Cm	7.64E+03		2.47E+01		8.24E-01		
245-Cm	8.82E-01		2.85E-03		9.50E-05		
246-Cm	1.01E-01		3.26E-04		1.09E-05		
TOTALS							
WEIGHT,KG	1,546,229	13,029	570,138	0.00E+00	5,393		0.00E+00
VOLUME,L	1,402,728	13,029	566,956	0.00E+00	5,292		0.00E+00
ACTIVITY,Ci	27,903,948	0.00E+00	283,812	0.00E+00	47,699		In Matl. Bal.
ACTINIDES,Ci	154,480	0.00E+00	499	0.00E+00	16.65		In Matl. Bal.
HEAT GEN.,W	83,141	0.00E+00	NEGLIGIBLE	0.00E+00	NEGLIGIBLE		Negligible
SpG	1.10	1.00	1.01	0.00	1.02		0.00E+00

STREAM NUMBER	34	35	36	37	38	39	40
RADIONUCLIDE	NONROUTINE WASTE	DILUTE CFMUT WASTE	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MADE-UP MELTER FEED	MELTER FEED
CURIE	RECYCLE Ci	FEED			Ci	Ci	Ci
225-Ac		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
227-Ac		8.25E+00	8.25E+00	1.23E-02		8.25E+00	8.25E+00
228-Ac		1.53E+00	1.53E+00	2.28E-03		1.53E+00	1.53E+00
227-Th		8.13E+00	8.13E+00	1.22E-02		8.13E+00	8.13E+00
228-Th		9.00E+00	9.00E+00	1.34E-02		9.00E+00	9.00E+00
229-Th		2.10E-01	2.10E-01	3.14E-04		2.10E-01	2.10E-01
230-Th		5.86E-02	5.86E-02	8.76E-05		5.86E-02	5.86E-02
231-Th		9.49E-02	9.49E-02	1.42E-04		9.49E-02	9.49E-02
232-Th		1.65E+00	1.65E+00	2.46E-03		1.65E+00	1.65E+00
234-Th		8.00E-01	8.00E-01	1.20E-03		8.00E-01	8.00E-01
231-Pa		1.53E+01	1.53E+01	2.28E-02		1.53E+01	1.53E+01
233-Pa		2.34E+01	2.34E+01	3.50E-02		2.34E+01	2.34E+01
234m-Pa		8.00E-01	8.00E-01	1.20E-03		8.00E-01	8.00E-01
232-U		6.95E+00	6.95E+00	1.04E-02		6.95E+00	6.95E+00
233-U		9.06E+00	9.06E+00	1.35E-02		9.06E+00	9.06E+00
234-U		4.20E+00	4.20E+00	6.28E-03		4.20E+00	4.20E+00
235-U		9.49E-02	9.49E-02	1.42E-04		9.49E-02	9.49E-02
236-U		2.78E-01	2.78E-01	4.15E-04		2.78E-01	2.78E-01
238-U		8.00E-01	8.00E-01	1.20E-03		8.00E-01	8.00E-01
236-Np		9.50E+00	9.50E+00	1.42E-02		9.50E+00	9.50E+00
237-Np		2.34E+01	2.34E+01	3.50E-02		2.34E+01	2.34E+01
239-Np		3.48E+02	3.48E+02	5.20E-01		3.48E+02	3.48E+02
236-Pu		8.42E-01	8.42E-01	1.26E-03		8.42E-01	8.42E-01
238-Pu		8.32E+03	8.32E+03	1.24E+01		8.32E+03	8.32E+03
239-Pu		1.63E+03	1.63E+03	2.44E+00		1.63E+03	1.63E+03
240-Pu		1.19E+03	1.19E+03	1.78E+00		1.19E+03	1.19E+03
241-Pu		8.09E+04	8.09E+04	1.21E+02		8.09E+04	8.09E+04
242-Pu		1.63E+00	1.63E+00	2.43E-03		1.63E+00	1.63E+00
241-Am		5.36E+04	5.36E+04	8.01E+01		5.36E+04	5.36E+04
242-Am		2.96E+02	2.96E+02	4.43E-01		2.96E+02	2.96E+02
242m-Am		2.98E+02	2.98E+02	4.45E-01		2.98E+02	2.98E+02
243-Am		3.48E+02	3.48E+02	5.20E-01		3.48E+02	3.48E+02
242-Cm		2.46E+02	2.46E+02	3.67E-01		2.46E+02	2.46E+02
243-Cm		1.35E+02	1.35E+02	2.01E-01		1.35E+02	1.35E+02
244-Cm		7.67E+03	7.67E+03	1.15E+01		7.67E+03	7.67E+03
245-Cm		8.85E-01	8.85E-01	1.32E-03		8.85E-01	8.85E-01
246-Cm		1.01E-01	1.01E-01	1.51E-04		1.01E-01	1.01E-01
TOTALS							
WEIGHT,KG	WEIGHT,KG	2,134,790	469,956	1,665,074	986.180	1,439,235	1,535,473
VOLUME,L	VOLUME,L	1,988,005	240,163	1,664,731	689,636	962,372	1,058,609
ACTIVITY,Ci	ACTIVITY,Ci	28,235,459	28,235,458	42,193	0.00E+00	28,235,458	28,235,458
ACTINIDES,Ci	ACTINIDES,Ci	154,996	154,996	231.60	0.00E+00	154,996	154,996
HEAT GEN.,W	HEAT GEN.,W	83,141	83,141	124.23	0.00E+00	83,141	83,141
SpG	SpG	1.07	1.96	1.00	1.43	1.50	1.45

STREAM NUMBER	41	42		43	44	45	46
RADIONUCLIDE	AIR INLEAKAGE	GLASS PRODUCTION		FILLED GLASS CANISTERS	SFCM OFF GAS	FILM COOLER AIR	PRESSURE CONTROL AIR
CURIE	TO SFCM						
	Ci	Ci		Ci	Ci	Ci	Ci
225-Ac		0.21	225-Ac	0.00	7.01E-04		
227-Ac		8.22	227-Ac	0.03	2.75E-02		
228-Ac		1.52	228-Ac	0.01	5.09E-03		
227-Th		8.10	227-Th	0.03	2.71E-02		
228-Th		8.97	228-Th	0.04	3.00E-02		
229-Th		0.21	229-Th	0.00	7.01E-04		
230-Th		0.06	230-Th	0.00	1.95E-04		
231-Th		0.09	231-Th	0.00	3.16E-04		
232-Th		1.64	232-Th	0.01	5.48E-03		
234-Th		0.80	234-Th	0.00	2.67E-03		
231-Pa		15.20	231-Pa	0.06	5.08E-02		
233-Pa		23.35	233-Pa	0.09	7.81E-02		
234m-Pa		0.80	234m-Pa	0.00	2.67E-03		
232-U		6.92	232-U	0.03	2.32E-02		
233-U		9.03	233-U	0.04	3.02E-02		
234-U		4.19	234-U	0.02	1.40E-02		
235-U		0.09	235-U	0.00	3.16E-04		
236-U		0.28	236-U	0.00	9.26E-04		
238-U		0.80	238-U	0.00	2.67E-03		
236-Np		9.47	236-Np	0.04	3.17E-02		
237-Np		23.35	237-Np	0.09	7.81E-02		
239-Np		346.73	239-Np	1.36	1.16E+00		
236-Pu		0.84	236-Pu	0.00	2.81E-03		
238-Pu		8,287.68	238-Pu	32.58	2.77E+01		
239-Pu		1,625.37	239-Pu	6.39	5.44E+00		
240-Pu		1,190.34	240-Pu	4.68	3.98E+00		
241-Pu		80,630.89	241-Pu	316.95	2.70E+02		
242-Pu		1.62	242-Pu	0.01	5.43E-03		
241-Am		53,401.61	241-Am	209.91	1.79E+02		
242-Am		295.22	242-Am	1.16	9.87E-01		
242m-Am		296.70	242m-Am	1.17	9.92E-01		
243-Am		346.73	243-Am	1.36	1.16E+00		
242-Cm		244.91	242-Cm	0.96	8.19E-01		
243-Cm		134.08	243-Cm	0.53	4.48E-01		
244-Cm		7,643.16	244-Cm	30.04	2.56E+01		
245-Cm		0.88	245-Cm	0.00	2.95E-03		
246-Cm		0.10	246-Cm	0.00	3.38E-04		
	Totals	27,902,300.56		109,679.19			
TOTALS							
WEIGHT,KG	1,183,237	483,358.51		1,900.00	2,234,219	3,313,064	1,064,913
VOLUME,L	1,028,548,919	201,399.38		701.11	5,502,708,833	2,925,622,347	940,378,611
ACTIVITY,Ci	0.00E+00	27,902,300.56		109,679.19	333,156	0.00E+00	0.00E+00
ACTINIDES,Ci	0.00E+00	154,479.71		607.23	517	0.00E+00	0.00E+00
HEAT GEN.,W	0.00E+00	83,137.31		326.80	0	0.00E+00	0.00E+00
SpG	1.15E-03	2.40		2.71	4.06E-04	1.13E-03	1.13E-03

STREAM NUMBER	47	48	49	50	51	52	53
RADIONUCLIDE	OFF GAS TO SBS	SBS CHEMICAL ADD	SBS AIR SPARGE	SBS OFF GAS	VESSEL VENT GAS	OGD CHEMICAL ADD	OGD OFF GAS
CURIE							
	Ci	Ci	Ci	Ci	Ci	Ci	Ci
225-Ac	7.01E-04			2.34E-05			2.34E-05
227-Ac	2.75E-02			9.16E-04			9.16E-04
228-Ac	5.09E-03			1.70E-04			1.70E-04
227-Th	2.71E-02			9.03E-04			9.03E-04
228-Th	3.00E-02			1.00E-03			1.00E-03
229-Th	7.01E-04			2.34E-05			2.34E-05
230-Th	1.95E-04			6.51E-06			6.51E-06
231-Th	3.16E-04			1.05E-05			1.05E-05
232-Th	5.48E-03			1.83E-04			1.83E-04
234-Th	2.67E-03			8.89E-05			8.89E-05
231-Pa	5.08E-02			1.69E-03			1.69E-03
233-Pa	7.81E-02			2.60E-03			2.60E-03
234m-Pa	2.67E-03			8.89E-05			8.89E-05
232-U	2.32E-02			7.72E-04			7.72E-04
233-U	3.02E-02			1.01E-03			1.01E-03
234-U	1.40E-02			4.67E-04			4.67E-04
235-U	3.16E-04			1.05E-05			1.05E-05
236-U	9.26E-04			3.09E-05			3.09E-05
238-U	2.67E-03			8.89E-05			8.89E-05
236-Np	3.17E-02			1.06E-03			1.06E-03
237-Np	7.81E-02			2.60E-03			2.60E-03
239-Np	1.16E+00			3.87E-02			3.87E-02
236-Pu	2.81E-03			9.36E-05			9.36E-05
238-Pu	2.77E+01			9.24E-01			9.24E-01
239-Pu	5.44E+00			1.81E-01			1.81E-01
240-Pu	3.98E+00			1.33E-01			1.33E-01
241-Pu	2.70E+02			8.99E+00			8.99E+00
242-Pu	5.43E-03			1.81E-04			1.81E-04
241-Am	1.79E+02			5.95E+00			5.95E+00
242-Am	9.87E-01			3.29E-02			3.29E-02
242m-Am	9.92E-01			3.31E-02			3.31E-02
243-Am	1.16E+00			3.87E-02			3.87E-02
242-Cm	8.19E-01			2.73E-02			2.73E-02
243-Cm	4.48E-01			1.49E-02			1.49E-02
244-Cm	2.56E+01			8.52E-01			8.52E-01
245-Cm	2.95E-03			9.83E-05			9.83E-05
246-Cm	3.38E-04			1.13E-05			1.13E-05
TOTALS							
WEIGHT,KG	6,612,196		59,162	6,133,290	2,387,334	WEIGHT,KG	8,520,624
VOLUME,L	10,287,769,935		58,990,100	6,385,767,554	2,392,495,482	VOLUME,L	8,676,203,153
ACTIVITY,Ci	333,156		0.00E+00	49,344.9	0.00E+00	ACTIVITY,Ci	49,344.9
ACTINIDES,Ci	517		0.00E+00	17.2	0.00E+00	ACTINIDES,Ci	17.2
HEAT GEN.,W	0		0.00E+00	NEGLIGIBLE	0.00E+00	HEAT GEN.,W	NEGLIGIBLE
SpG	6.43E-04		1.00E-03	9.60E-04	9.98E-04	SpG	9.82E-04

STREAM NUMBER	54	55	56	57	58
RADIONUCLIDE	HEME CHEMICAL ADD	HEME OFF GAS	FILTER PREHEATER OFF GAS	HEPA FILTER OFF GAS	TRENCH HEATER OFF GAS
CURIE	Ci	Ci	Ci	Ci	Ci
225-Ac		7.79E-07	7.79E-07	7.79E-13	7.79E-13
227-Ac		3.05E-05	3.05E-05	3.05E-11	3.05E-11
228-Ac		5.66E-06	5.66E-06	5.66E-12	5.66E-12
227-Th		3.01E-05	3.01E-05	3.01E-11	3.01E-11
228-Th		3.33E-05	3.33E-05	3.33E-11	3.33E-11
229-Th		7.79E-07	7.79E-07	7.79E-13	7.79E-13
230-Th		2.17E-07	2.17E-07	2.17E-13	2.17E-13
231-Th		3.52E-07	3.52E-07	3.52E-13	3.52E-13
232-Th		6.09E-06	6.09E-06	6.09E-12	6.09E-12
234-Th		2.96E-06	2.96E-06	2.96E-12	2.96E-12
231-Pa		5.65E-05	5.65E-05	5.65E-11	5.65E-11
233-Pa		8.68E-05	8.68E-05	8.68E-11	8.68E-11
234m-Pa		2.96E-06	2.96E-06	2.96E-12	2.96E-12
232-U		2.57E-05	2.57E-05	2.57E-11	2.57E-11
233-U		3.36E-05	3.36E-05	3.36E-11	3.36E-11
234-U		1.56E-05	1.56E-05	1.56E-11	1.56E-11
235-U		3.52E-07	3.52E-07	3.52E-13	3.52E-13
236-U		1.03E-06	1.03E-06	1.03E-12	1.03E-12
238-U		2.96E-06	2.96E-06	2.96E-12	2.96E-12
236-Np		3.52E-05	3.52E-05	3.52E-11	3.52E-11
237-Np		8.68E-05	8.68E-05	8.68E-11	8.68E-11
239-Np		1.29E-03	1.29E-03	1.29E-09	1.29E-09
236-Pu		3.12E-06	3.12E-06	3.12E-12	3.12E-12
238-Pu		3.08E-02	3.08E-02	3.08E-08	3.08E-08
239-Pu		6.04E-03	6.04E-03	6.04E-09	6.04E-09
240-Pu		4.42E-03	4.42E-03	4.42E-09	4.42E-09
241-Pu		3.00E-01	3.00E-01	3.00E-07	3.00E-07
242-Pu		6.03E-06	6.03E-06	6.03E-12	6.03E-12
241-Am		1.98E-01	1.98E-01	1.98E-07	1.98E-07
242-Am		1.10E-03	1.10E-03	1.10E-09	1.10E-09
242m-Am		1.10E-03	1.10E-03	1.10E-09	1.10E-09
243-Am		1.29E-03	1.29E-03	1.29E-09	1.29E-09
242-Cm		9.10E-04	9.10E-04	9.10E-10	9.10E-10
243-Cm		4.98E-04	4.98E-04	4.98E-10	4.98E-10
244-Cm		2.84E-02	2.84E-02	2.84E-08	2.84E-08
245-Cm		3.28E-06	3.28E-06	3.28E-12	3.28E-12
246-Cm		3.75E-07	3.75E-07	3.75E-13	3.75E-13
TOTALS					
WEIGHT,KG	4,992	8,520,522	8,520,522	8,520,519	8,520,519
VOLUME,L	4,992	8,757,192,564	10,214,192,390	9,971,433,984	10,856,313,218
ACTIVITY,Ci	0.00E+00	1,646	1,646	0.762	0.762
ACTINIDES,Ci	0.00E+00	5.74E-01	5.74E-01	5.74E-07	5.74E-07
HEAT GEN.,W	0.00E+00	NEGLIGIBLE	NEGLIGIBLE	NEGLIGIBLE	NEGLIGIBLE
SpG	1.00E+00	9.73E-04	8.34E-04	8.54E-04	7.85E-04

STREAM NUMBER			1	2	3	4	5
STREAM NAME			THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE
COMPONENT KG	MOLECULAR WEIGHT	OXIDE EQUIVALENT	kg	kg	kg	kg	kg
Ag	107.87	1.0743	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AgNO3	169.89	0.6821	5.46E-02	0.00E+00	5.46E-02	0.00E+00	0.00E+00
Ag2O	231.76	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AgOH	124.88	0.9279	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-01
AlF3	83.98	2.1070	0.00E+00	0.00E+00	0.00E+00	1.62E+02	1.13E+03
Al(NO3)3	213.00	0.2393	9.99E+02	0.00E+00	9.99E+02	0.00E+00	0.00E+00
Al2O3	101.96	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Al(OH)3	78.00	0.6536	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E+03
Am(OH)3	294.00	0.9087	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am(NO3)3	429.00	0.6227	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Am2O3	534.30	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+01
B2O3	69.62	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba(NO3)2	261.35	0.5866	1.58E+01	0.00E+00	1.58E+01	0.00E+00	0.00E+00
BaO	153.32	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaSO4	233.40	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E+02
C	12.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(CH2)10	140.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaCO3	100.09	0.5603	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E+03
CaC2O4	128.12	0.4377	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaF2	78.08	1.7938	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca(NO3)2	164.09	0.3418	1.03E+01	0.00E+00	1.03E+01	0.00E+00	0.00E+00
CaO	56.08	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca(OH)2	74.09	0.7569	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ca3(PO4)2	310.18	1.0002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CaSO4	136.14	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cd(NO3)2	236.41	0.5431	1.63E-01	0.00E+00	1.63E-01	0.00E+00	0.00E+00
CdO	128.40	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cd(OH)2	146.11	0.5431	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-01
Ce(NO3)3	326.23	0.5031	2.16E+01	0.00E+00	2.16E+01	0.00E+00	0.00E+00
Ce2O3	328.24	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce(OH)3	191.14	0.8586	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E+02
Cm(NO3)3	433.00	0.6259	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm2O3	542.00	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-01
Cm(OH)3	298.00	0.9094	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co	58.93	1.2715	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co(NO3)2	183.04	0.4094	1.23E+00	0.00E+00	1.23E+00	0.00E+00	0.00E+00
CoO	74.93	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co(OH)2	92.95	0.8061	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr(NO3)3	238.15	0.3192	6.12E+02	0.00E+00	6.12E+02	0.00E+00	0.00E+00
Cr2O3	152.02	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CrO3	99.99	0.7602	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr(OH)3	103.02	0.7378	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E+01
CsNO3	194.91	0.7229	2.02E+01	0.00E+00	2.02E+01	3.86E+02	0.00E+00
CsCl(SV)	168.36	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs2O	281.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
spare	281.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu	63.55	1.2516	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu(NO3)2	187.60	0.4240	3.39E-01	0.00E+00	3.39E-01	2.54E+00	0.00E+00
CuO	79.54	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu(OH)2	97.55	0.8154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E+02
CuSO4	159.61	0.4983	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy(NO3)3	348.58	0.5350	1.07E-03	0.00E+00	1.07E-03	0.00E+00	0.00E+00
Dy2O3	373.00	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dy(OH)3	213.52	0.8735	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eu(NO3)3	338.07	0.5205	5.20E-01	0.00E+00	5.20E-01	0.00E+00	0.00E+00
Eu2O3	351.92	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eu(OH)3	202.96	0.9413	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E+00
Fe	55.85	1.4296	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe(NO3)3	242.02	0.3299	2.79E+03	0.00E+00	2.79E+03	1.42E+01	0.00E+00

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	8D1 CONDENSATE	8D2 CHEMICAL ADD	8D2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Ag	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
AgNO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ag2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
AgOH	6.50E-01	0.00E+00			6.50E-01	0.00E+00	6.50E-01
AlF3	1.29E+03	0.00E+00			1.29E+03	1.45E+02	1.15E+03
Al(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Al2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Al(OH)3	3.82E+03	0.00E+00			3.82E+03	0.00E+00	3.82E+03
Am(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Am(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Am2O3	2.70E+01	0.00E+00			2.70E+01	0.00E+00	2.70E+01
B2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ba(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
BaO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
BaSO4	3.03E+02	0.00E+00			3.03E+02	0.00E+00	3.03E+02
C	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
(CH2)10	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaCO3	1.80E+03	0.00E+00			1.80E+03	0.00E+00	1.80E+03
CaC2O4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaF2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ca(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ca(OH)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ca3(PO4)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CaSO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cd(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CdO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cd(CH)2	9.23E-01	0.00E+00			9.23E-01	0.00E+00	9.23E-01
Ce(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ce2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ce(OH)3	3.04E+02	0.00E+00			3.04E+02	0.00E+00	3.04E+02
Cm(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cm2O3	4.00E-01	0.00E+00			4.00E-01	0.00E+00	4.00E-01
Cm(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Co	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Co(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CoO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Co(OH)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cr(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cr2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
CrO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cr(OH)3	4.80E+01	0.00E+00			4.80E+01	0.00E+00	4.80E+01
CsNO3	3.86E+02	0.00E+00			3.86E+02	3.44E+02	4.20E+01
CsCl(SV)	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cs2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
spare	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cu	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cu(NO3)2	2.54E+00	0.00E+00			2.54E+00	2.27E+00	2.77E-01
CuO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Cu(OH)2	3.07E+02	0.00E+00			3.07E+02	0.00E+00	3.07E+02
CuSO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Dy(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Dy2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Dy(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Eu(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Eu2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Eu(OH)3	7.06E+00	0.00E+00			7.06E+00	0.00E+00	7.06E+00
Fe	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Fe(NO3)3	1.42E+01	0.00E+00			1.42E+01	1.26E+01	1.54E+00

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Ag		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
AgNO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ag2O		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
AgOH		0.00E+00		0.00E+00	6.50E-01	0.00E+00	
AlF3		0.00E+00		1.71E+01	1.13E+03	0.00E+00	
Al(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Al2O3		8.67E+03		0.00E+00	0.00E+00	8.67E+03	
Al(OH)3		0.00E+00		0.00E+00	3.82E+03	0.00E+00	
Am(OH)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Am(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Am2O3		0.00E+00		0.00E+00	2.70E+01	0.00E+00	
B2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ba(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
BaO		5.03E+01		0.00E+00	0.00E+00	5.03E+01	
BaSO4		0.00E+00		0.00E+00	3.03E+02	0.00E+00	
C		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
(CH2)10		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CaCO3		0.00E+00		0.00E+00	1.80E+03	0.00E+00	
CaC2O4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CaF2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ca(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CaO		6.15E+02		0.00E+00	0.00E+00	6.15E+02	
Ca(OH)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ca3(PO4)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CaSO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cd(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CdO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cd(OH)2		0.00E+00		0.00E+00	9.23E-01	0.00E+00	
Ce(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ce2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ce(OH)3		0.00E+00		0.00E+00	3.04E+02	0.00E+00	
Cm(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cm2O3		0.00E+00		0.00E+00	4.00E-01	0.00E+00	
Cm(OH)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Co		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Co(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CoO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Co(OH)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cr(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cr2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
CrO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cr(OH)3		0.00E+00		0.00E+00	4.80E+01	0.00E+00	
CsNO3		0.00E+00		4.08E+01	1.18E+00	0.00E+00	
CsCl(SV)		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cs2O		3.84E+02		0.00E+00	0.00E+00	3.84E+02	
spare		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cu		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cu(NO3)2		0.00E+00		2.69E-01	7.79E-03	0.00E+00	
CuO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Cu(OH)2		0.00E+00		0.00E+00	3.07E+02	0.00E+00	
CuSO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Dy(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Dy2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Dy(OH)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Eu(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Eu2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Eu(OH)3		0.00E+00		0.00E+00	7.06E+00	0.00E+00	
Fe		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Fe(NO3)3		0.00E+00		1.50E+00	4.34E-02	0.00E+00	

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2 (50%)	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Ag			0.00E+00	0.00E+00			0.00E+00
AgNO3			5.46E-02	0.00E+00			0.00E+00
Ag2O			0.00E+00	0.00E+00			0.00E+00
AgOH			0.00E+00	0.00E+00			5.46E-02
AlF3			0.00E+00	0.00E+00			0.00E+00
Al(NO3)3			9.99E+02	0.00E+00			0.00E+00
Al2O3			0.00E+00	0.00E+00			0.00E+00
Al(OH)3			0.00E+00	0.00E+00			9.99E+02
Am(OH)3			0.00E+00	0.00E+00			0.00E+00
Am(NO3)3			0.00E+00	0.00E+00			0.00E+00
Am2O3			0.00E+00	0.00E+00			0.00E+00
B2O3			0.00E+00	0.00E+00			0.00E+00
Ba(NO3)2			1.58E+01	0.00E+00			0.00E+00
BaO			0.00E+00	0.00E+00			0.00E+00
BaSO4			0.00E+00	0.00E+00			2.41E+01
C			0.00E+00	0.00E+00			0.00E+00
(CH2)10			0.00E+00	0.00E+00			0.00E+00
CaCO3			0.00E+00	0.00E+00			0.00E+00
CaC2O4			0.00E+00	0.00E+00			0.00E+00
CaF2			0.00E+00	0.00E+00			0.00E+00
Ca(NO3)2			1.03E+01	0.00E+00			0.00E+00
CaO			0.00E+00	0.00E+00			0.00E+00
Ca(OH)2			0.00E+00	0.00E+00			1.03E+01
Ca3(PO4)2			0.00E+00	0.00E+00			0.00E+00
CaSO4			0.00E+00	0.00E+00			0.00E+00
Cd(NO3)2			1.63E-01	0.00E+00			0.00E+00
CdO			0.00E+00	0.00E+00			0.00E+00
Cd(OH)2			0.00E+00	0.00E+00			1.01E-01
Ce(NO3)3			2.16E+01	0.00E+00			0.00E+00
Ce2O3			0.00E+00	0.00E+00			0.00E+00
Ce(OH)3			0.00E+00	0.00E+00			0.00E+00
Cm(NO3)3			0.00E+00	0.00E+00			0.00E+00
Cm2O3			0.00E+00	0.00E+00			0.00E+00
Cm(OH)3			0.00E+00	0.00E+00			0.00E+00
Co			0.00E+00	0.00E+00			0.00E+00
Co(NO3)2			1.23E+00	0.00E+00			0.00E+00
CoO			0.00E+00	0.00E+00			0.00E+00
Co(OH)2			0.00E+00	0.00E+00			1.23E+00
Cr(NO3)3			6.12E+02	0.00E+00			0.00E+00
Cr2O3			0.00E+00	0.00E+00			0.00E+00
CrO3			0.00E+00	0.00E+00			0.00E+00
Cr(OH)3			0.00E+00	0.00E+00			6.12E+02
CsNO3			2.02E+01	0.00E+00			2.02E+01
CsCl(SV)			0.00E+00	0.00E+00			0.00E+00
Cs2O			0.00E+00	0.00E+00			0.00E+00
spare			0.00E+00	0.00E+00			0.00E+00
Cu			0.00E+00	0.00E+00			0.00E+00
Cu(NO3)2			3.39E-01	0.00E+00			0.00E+00
CuO			0.00E+00	0.00E+00			0.00E+00
Cu(OH)2			0.00E+00	0.00E+00			3.39E-01
CuSO4			0.00E+00	0.00E+00			0.00E+00
Dy(NO3)3			1.07E-03	0.00E+00			0.00E+00
Dy2O3			0.00E+00	0.00E+00			0.00E+00
Dy(OH)3			0.00E+00	0.00E+00			1.07E-03
Eu(NO3)3			5.20E-01	0.00E+00			0.00E+00
Eu2O3			0.00E+00	0.00E+00			0.00E+00
Eu(OH)3			0.00E+00	0.00E+00			5.65E-01
Fe			0.00E+00	0.00E+00			0.00E+00
Fe(NO3)3			2.79E+03	0.00E+00			0.00E+00

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED 8D2	8D2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Ag	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
AgNO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ag2O	0.00E+00		2.28E-03	0.00E+00	7.59E-05		0.00E+00
AgOH	7.04E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
AlF3	1.13E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Al(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Al2O3	8.67E+03		1.00E+02	0.00E+00	3.35E+00		0.00E+00
Al(OH)3	4.82E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Am(OH)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Am(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Am2O3	2.70E+01		8.73E-02	0.00E+00	2.91E-03		0.00E+00
B2O3	0.00E+00		9.77E+02	0.00E+00	4.72E-01		0.00E+00
Ba(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
BaO	5.03E+01		1.63E-01	0.00E+00	5.42E-03		0.00E+00
BaSO4	3.27E+02		1.06E+00	0.00E+00	3.53E-02		0.00E+00
C	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
(CH2)10	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CaCO3	1.80E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CaC2O4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CaF2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ca(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CaO	6.15E+02		7.67E+00	0.00E+00	2.56E-01		0.00E+00
Ca(OH)2	1.03E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ca3(PO4)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CaSO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cd(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CdO	0.00E+00		9.48E-02	0.00E+00	1.83E-02		0.00E+00
Cd(OH)2	1.02E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ce(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ce2O3	0.00E+00		9.83E-01	0.00E+00	3.28E-02		0.00E+00
Ce(OH)3	3.04E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cm(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cm2O3	4.00E-01		1.29E-03	0.00E+00	4.31E-05		0.00E+00
Cm(OH)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Co	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Co(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CoO	0.00E+00		3.97E-03	0.00E+00	1.32E-04		0.00E+00
Co(OH)2	1.23E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cr(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cr2O3	0.00E+00		2.15E+00	0.00E+00	7.18E-02		0.00E+00
CrO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cr(OH)3	6.60E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CsNO3	2.14E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CsCl(SV)	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cs2O	3.84E+02		6.90E+00	0.00E+00	1.33E+00		0.00E+00
spare	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cu	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Cu(NO3)2	7.79E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CuO	0.00E+00		9.92E-01	0.00E+00	3.31E-02		0.00E+00
Cu(OH)2	3.07E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
CuSO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Dy(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Dy2O3	0.00E+00		3.46E-06	0.00E+00	1.15E-07		0.00E+00
Dy(OH)3	1.07E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Eu(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Eu2O3	0.00E+00		2.46E-02	0.00E+00	8.22E-04		0.00E+00
Eu(OH)3	7.62E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Fe	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Fe(NO3)3	4.34E-02		0.00E+00	0.00E+00	0.00E+00		0.00E+00

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MELTER FEED W/O GLASS FORMERS	MELTER FEED GLASS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Ag		0.00E+00	0.00E+00	0.00E+00			
AgNO3		0.00E+00	0.00E+00	0.00E+00			
Ag2O		2.35E-03	2.35E-03	3.51E-06		7.06E-01	7.06E-01
AgOH		7.04E-01	7.04E-01	1.05E-03			
AlF3		1.13E+03	1.13E+03	1.69E+00		Al2O3,NaF	
Al(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Al2O3		8.77E+03	8.77E+03	1.31E+01	1.72E+04	1.39E+04	3.12E+04
Al(OH)3		4.82E+03	4.82E+03	7.21E+00			
Am(OH)3		0.00E+00	0.00E+00	0.00E+00			
Am(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Am2O3		2.71E+01	2.71E+01	4.05E-02		2.71E+01	2.71E+01
B2O3		9.78E+02	9.78E+02	1.46E+00	4.76E+04	1.25E+03	4.89E+04
Ba(NO3)2		0.00E+00	0.00E+00	0.00E+00			
BaO		5.05E+01	5.05E+01	7.55E-02		5.05E+01	5.05E+01
BaSO4		3.28E+02	3.28E+02	4.90E-01		3.28E+02	3.28E+02
C		0.00E+00	0.00E+00	0.00E+00			
(CH2)10		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
CaCO3		1.80E+03	1.80E+03	2.69E+00			
CaC2O4		0.00E+00	0.00E+00	0.00E+00			
CaF2		0.00E+00	0.00E+00	0.00E+00		CaO,NaF	
Ca(NO3)2		0.00E+00	0.00E+00	0.00E+00			
CaO		6.23E+02	6.23E+02	9.31E-01	-4.89E+01	2.43E+03	2.38E+03
Ca(OH)2		1.03E+01	1.03E+01	1.53E-02			
Ca3(PO4)2		0.00E+00	0.00E+00	0.00E+00		CaO,P2O5	
CaSO4		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Cd(NO3)2		0.00E+00	0.00E+00	0.00E+00			
CdO		1.13E-01	1.13E-01	1.69E-04		1.14E+00	1.14E+00
Cd(OH)2		1.02E+00	1.02E+00	1.53E-03			
Ce(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Ce2O3		1.02E+00	1.02E+00	1.52E-03		3.05E+02	3.05E+02
Ce(OH)3		3.04E+02	3.04E+02	4.54E-01			
Cm(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Cm2O3		4.01E-01	4.01E-01	6.00E-04		4.01E-01	4.01E-01
Cm(OH)3		0.00E+00	0.00E+00	0.00E+00			
Co		0.00E+00	0.00E+00	0.00E+00			
Co(NO3)2		0.00E+00	0.00E+00	0.00E+00			
CoO		4.10E-03	4.10E-03	6.13E-06		1.23E+00	1.23E+00
Co(OH)2		1.23E+00	1.23E+00	1.84E-03			
Cr(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Cr2O3		2.23E+00	2.23E+00	3.33E-03		6.68E+02	6.68E+02
CrO3		0.00E+00	0.00E+00	0.00E+00			
Cr(OH)3		6.60E+02	6.60E+02	9.86E-01			
CsNO3		2.14E+01	2.14E+01	3.20E-02			
CsCl(SV)		0.00E+00	0.00E+00	0.00E+00			
Cs2O		3.93E+02	3.93E+02	5.87E-01		4.14E+02	4.14E+02
spare		0.00E+00	0.00E+00	0.00E+00			
Cu		0.00E+00	0.00E+00	0.00E+00			
Cu(NO3)2		7.79E-03	7.79E-03	1.16E-05			
CuO		1.03E+00	1.03E+00	1.53E-03		3.08E+02	3.08E+02
Cu(OH)2		3.07E+02	3.07E+02	4.59E-01			
CuSO4		0.00E+00	0.00E+00	0.00E+00		CuO	
Dy(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Dy2O3		3.57E-06	3.57E-06	5.34E-09		1.07E-03	1.07E-03
Dy(OH)3		1.07E-03	1.07E-03	1.60E-06			
Eu(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Eu2O3		2.55E-02	2.55E-02	3.81E-05		7.65E+00	7.65E+00
Eu(OH)3		7.62E+00	7.62E+00	1.14E-02			
Fe		0.00E+00	0.00E+00	0.00E+00			
Fe(NO3)3		4.34E-02	4.34E-02	6.49E-05			

STREAM NUMBER			1	2	3	4	5
STREAM NAME			THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE
COMPONENT KG	MOLECULAR WEIGHT	OXIDE EQUIVALENT	kg	kg	kg	kg	kg
FeO	71.85	1.1113	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe(OH)3	106.86	0.7472	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E+04
Fe2O3	159.69	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FePO4	150.85	0.9999	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E+03
Gd(NO3)3	343.36	0.5279	2.11E-01	0.00E+00	2.11E-01	0.00E+00	0.00E+00
Gd2O3	362.50	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Gd(OH)3	208.27	0.8703	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E+00
Ge(NO3)4	320.59	0.1948	3.90E-03	0.00E+00	3.90E-03	0.00E+00	0.00E+00
GeO2	104.59	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ge(OH)4	140.59	0.7439	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H3BO3	61.83	0.5630	2.70E+02	0.00E+00	2.70E+02	0.00E+00	0.00E+00
H2CO3	62.03	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2C2O4	90.00	1.6031	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HCl	36.46	1.6031	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HF	20.01	2.0985	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HNO3	63.02	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H2SO4	98.07	1.4486	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg	200.59	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg2Cl2	472.09	1.0974	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg2I2	654.99	0.6125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg(NO3)2	324.63	0.6179	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HgO	216.61	0.9260	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hg(OH)2	234.59	0.8551	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E+01
In(NO3)3	300.88	0.4614	1.85E-02	0.00E+00	1.85E-02	0.00E+00	0.00E+00
In2O3	277.64	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
In(OH)3	165.84	0.8371	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-01
K2CrO4	194.20	0.8765	0.00E+00	0.00E+00	0.00E+00	4.48E+03	0.00E+00
KMnO4	197.12	0.6800	6.66E+01	0.00E+00	6.66E+01	0.00E+00	0.00E+00
KNO3	101.10	0.4659	8.90E+01	0.00E+00	8.90E+01	1.69E+04	0.00E+00
K2O	94.20	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KOH	56.11	0.8394	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La(NO3)3	325.02	0.5012	1.10E+01	0.00E+00	1.10E+01	0.00E+00	0.00E+00
La2O3	325.82	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La(OH)3	189.93	0.8577	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+02
LiOH	23.95	0.6238	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LiNO3	68.94	0.2167	0.00E+00	0.00E+00	0.00E+00	3.03E+00	0.00E+00
Li2O	29.88	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MgCO3	84.32	0.4782	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E+02
Mg(NO3)2	148.41	0.2717	1.55E+01	0.00E+00	1.55E+01	5.43E-01	0.00E+00
MgO	40.32	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mg(OH)2	58.33	0.6912	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mn(NO3)2	170.05	0.4172	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MnO	70.94	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MnO2	86.94	0.8160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E+03
Mn(OH)2	88.95	0.7975	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MoO3	143.95	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na3BO3	127.78	1.0000	0.00E+00	0.00E+00	0.00E+00	5.97E+02	0.00E+00
Li3PO4	115.80	1.0001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2B4O7	201.27	0.9998	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2C2O4	134.01	0.4625	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2CO3	106.00	0.5847	0.00E+00	0.00E+00	0.00E+00	1.48E+04	0.00E+00
NaCl	58.45	1.0000	5.00E+01	0.00E+00	5.00E+01	4.68E+03	0.00E+00
spare	58.45	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2CrO4	161.97	0.8519	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaF	41.99	1.0000	1.00E+00	0.00E+00	1.00E+00	5.03E+02	0.00E+00
NaH2PO4	120.00	0.8499	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaHCO3	84.01	0.3689	0.00E+00	0.00E+00	0.00E+00	1.57E+04	0.00E+00
NaI	149.92	0.2067	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H3PO4	98.00	0.7244	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	8D1 CONDENSATE	8D2 CHEMICAL ADD	8D2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
FeO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Fe(OH)3	4.93E+04	0.00E+00			4.93E+04	0.00E+00	4.93E+04
Fe2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
FePO4	6.35E+03	0.00E+00			6.35E+03	0.00E+00	6.35E+03
Gd(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Gd2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Gd(OH)3	1.48E+00	0.00E+00			1.48E+00	0.00E+00	1.48E+00
Ge(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
GeO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ge(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2SiO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2CO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2C2O4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
HCl	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
HF	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
HNO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
H2SO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg2Cl2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg2I2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
HgO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Hg(OH)2	1.97E+01	0.00E+00			1.97E+01	0.00E+00	1.97E+01
In(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
In2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
In(OH)3	2.51E-01	0.00E+00			2.51E-01	0.00E+00	2.51E-01
K2CrO4	4.48E+03	0.00E+00			4.48E+03	3.99E+03	4.87E+02
KMnO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
KNO3	1.69E+04	0.00E+00			1.69E+04	1.51E+04	1.84E+03
K2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
KOH	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
La(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
La2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
La(OH)3	1.59E+02	0.00E+00			1.59E+02	0.00E+00	1.59E+02
LiOH	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
LiNO3	3.03E+00	0.00E+00			3.03E+00	2.70E+00	3.30E-01
Li2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
MgCO3	3.95E+02	0.00E+00			3.95E+02	0.00E+00	3.95E+02
Mg(NO3)2	5.43E-01	0.00E+00			5.43E-01	4.84E-01	5.91E-02
MgO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Mg(OH)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Mn(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
MnO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
MnO2	3.74E+03	0.00E+00			3.74E+03	0.00E+00	3.74E+03
Mn(OH)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
MoO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na3BO3	5.97E+02	0.00E+00			5.97E+02	5.32E+02	6.49E+01
Li3PO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2B4O7	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2C2O4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2CO3	1.48E+04	0.00E+00			1.48E+04	1.32E+04	1.60E+03
NaCl	4.68E+03	0.00E+00			4.68E+03	4.17E+03	5.09E+02
spare	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2CrO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
NaF	5.03E+02	0.00E+00			5.03E+02	4.48E+02	5.47E+01
NaH2PO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
NaHCO3	1.57E+04	0.00E+00			1.57E+04	1.40E+04	1.71E+03
NaI	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
H3PO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
FeO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Fe(OH)3		0.00E+00		0.00E+00	4.93E+04	0.00E+00	
Fe2O3		1.96E+03		0.00E+00	0.00E+00	1.96E+03	
FePO4		0.00E+00		0.00E+00	6.35E+03	0.00E+00	
Gd(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Gd2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Gd(OH)3		0.00E+00		0.00E+00	1.48E+00	0.00E+00	
Ge(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
GeO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ge(OH)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
H3BO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
H2CO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
H2C2O4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
HCl		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
HF		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
HNO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
H2SO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Hg		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Hg2Cl2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Hg2I2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Hg(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
HgO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Hg(OH)2		0.00E+00		0.00E+00	1.97E+01	0.00E+00	
In(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
In2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
In(OH)3		0.00E+00		0.00E+00	2.51E-01	0.00E+00	
K2CrO4		0.00E+00		4.73E+02	1.37E+01	0.00E+00	
KMnO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
KNO3		0.00E+00		1.79E+03	5.17E+01	0.00E+00	
K2O		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
KOH		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
La(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
La2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
La(OH)3		0.00E+00		0.00E+00	1.59E+02	0.00E+00	
LiOH		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
LiNO3		0.00E+00		3.21E-01	9.29E-03	0.00E+00	
Li2O		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
MgCO3		0.00E+00		0.00E+00	3.95E+02	0.00E+00	
Mg(NO3)2		0.00E+00		5.74E-02	1.66E-03	0.00E+00	
MgO		3.91E+02		0.00E+00	0.00E+00	3.91E+02	
Mg(OH)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Mn(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
MnO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
MnO2		0.00E+00		0.00E+00	3.74E+03	0.00E+00	
Mn(OH)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
MoO3		1.68E+01		0.00E+00	0.00E+00	1.68E+01	
Na3BO3		0.00E+00		6.31E+01	1.83E+00	0.00E+00	
Li3PO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2B4O7		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2C2O4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2CO3		0.00E+00		1.56E+03	4.52E+01	0.00E+00	
NaCl		0.00E+00		4.95E+02	1.43E+01	0.00E+00	
spare		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2CrO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
NaF		0.00E+00		5.31E+01	1.54E+00	0.00E+00	
NaH2PO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
NaHCO3		0.00E+00		1.66E+03	4.80E+01	0.00E+00	
NaI		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
H3PO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2 (50%)	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT							
KG	kg	kg	kg	kg	kg	kg	kg
FeO			0.00E+00	0.00E+00			0.00E+00
Fe(OH)3			0.00E+00	0.00E+00			2.79E+03
Fe2O3			0.00E+00	0.00E+00			0.00E+00
FePO4			0.00E+00	0.00E+00			0.00E+00
Gd(NO3)3			2.11E-01	0.00E+00			0.00E+00
Gd2O3			0.00E+00	0.00E+00			0.00E+00
Gd(OH)3			0.00E+00	0.00E+00			2.11E-01
Ge(NO3)4			3.90E-03	0.00E+00			0.00E+00
GeO2			0.00E+00	0.00E+00			0.00E+00
Ge(OH)4			0.00E+00	0.00E+00			6.52E-03
H3BO3			2.70E+02	0.00E+00			0.00E+00
H2CO3			0.00E+00	0.00E+00			0.00E+00
H2C2O4			0.00E+00	0.00E+00			0.00E+00
HCl			0.00E+00	0.00E+00			0.00E+00
HF			0.00E+00	0.00E+00			0.00E+00
HNO3			0.00E+00	0.00E+00			0.00E+00
H2SO4			0.00E+00	0.00E+00			0.00E+00
Hg			0.00E+00	0.00E+00			0.00E+00
Hg2Cl2			0.00E+00	0.00E+00			0.00E+00
Hg2I2			0.00E+00	0.00E+00			0.00E+00
Hg(NO3)2			0.00E+00	0.00E+00			0.00E+00
HgO			0.00E+00	0.00E+00			0.00E+00
Hg(OH)2			0.00E+00	0.00E+00			0.00E+00
In(NO3)3			1.85E-02	0.00E+00			0.00E+00
In2O3			0.00E+00	0.00E+00			0.00E+00
In(OH)3			0.00E+00	0.00E+00			1.85E-02
K2CrO4			0.00E+00	0.00E+00			0.00E+00
KMnO4			6.66E+01	0.00E+00			6.66E+01
KNO3			8.90E+01	0.00E+00			8.90E+01
K2O			0.00E+00	0.00E+00			0.00E+00
KOH			0.00E+00	0.00E+00			0.00E+00
La(NO3)3			1.10E+01	0.00E+00			0.00E+00
La2O3			0.00E+00	0.00E+00			0.00E+00
La(OH)3			0.00E+00	0.00E+00			1.10E+01
LiOH			0.00E+00	0.00E+00			0.00E+00
LiNO3			0.00E+00	0.00E+00			0.00E+00
Li2O			0.00E+00	0.00E+00			0.00E+00
MgCO3			0.00E+00	0.00E+00			0.00E+00
Mg(NO3)2			1.55E+01	0.00E+00			0.00E+00
MgO			0.00E+00	0.00E+00			0.00E+00
Mg(OH)2			0.00E+00	0.00E+00			1.55E+01
Mn(NO3)2			0.00E+00	0.00E+00			0.00E+00
MnO			0.00E+00	0.00E+00			0.00E+00
MnO2			0.00E+00	0.00E+00			0.00E+00
Mn(OH)2			0.00E+00	0.00E+00			0.00E+00
MoO3			0.00E+00	0.00E+00			0.00E+00
Na3BO3			0.00E+00	0.00E+00			9.92E+02
Li3PO4			0.00E+00	0.00E+00			0.00E+00
Na2B4O7			0.00E+00	0.00E+00			0.00E+00
Na2C2O4			0.00E+00	0.00E+00			0.00E+00
Na2CO3			0.00E+00	0.00E+00			0.00E+00
NaCl			5.00E+01	0.00E+00			5.00E+01
spare			0.00E+00	0.00E+00			0.00E+00
Na2CrO4			0.00E+00	0.00E+00			0.00E+00
NaF			1.00E+00	0.00E+00			1.00E+00
NaH2PO4			0.00E+00	0.00E+00			0.00E+00
NaKCO3			0.00E+00	0.00E+00			0.00E+00
NaI			0.00E+00	0.00E+00			0.00E+00
H3PO4			0.00E+00	0.00E+00			0.00E+00

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED BD2	BD2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
FeO	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Fe(OH)3	5.21E+04		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Fe2O3	1.96E+03		1.86E+02	0.00E+00	6.20E+00		0.00E+00
FePO4	6.35E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Gd(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Gd2O3	0.00E+00		5.47E-03	0.00E+00	1.82E-04		0.00E+00
Gd(OH)3	1.69E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ge(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
GeO2	0.00E+00		2.11E-05	0.00E+00	7.03E-07		0.00E+00
Ge(OH)4	6.52E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
H3BO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
H2CO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
H2C2O4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
HCl	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
HF	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
HNO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
H2SO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Hg	0.00E+00		5.45E+00	0.00E+00	1.05E+00		0.00E+00
Hg2Cl2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Hg2I2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Hg(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
HgO	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Hg(OH)2	1.97E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
In(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
In2O3	0.00E+00		8.72E-04	0.00E+00	2.91E-05		0.00E+00
In(OH)3	2.70E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
K2CrO4	1.37E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
KMnO4	6.66E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
KNO3	1.41E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
K2O	0.00E+00		5.73E+01	0.00E+00	1.91E+00		0.00E+00
KOH	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
La(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
La2O3	0.00E+00		5.49E-01	0.00E+00	1.83E-02		0.00E+00
La(OH)3	1.70E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
LiOH	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
LiNO3	9.29E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Li2O	0.00E+00		4.84E+01	0.00E+00	1.61E+00		0.00E+00
MgCO3	3.95E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Mg(NO3)2	1.66E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
MgO	3.91E+02		1.38E+01	0.00E+00	4.60E-01		0.00E+00
Mg(OH)2	1.55E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Mn(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
MnO	0.00E+00		1.53E+01	0.00E+00	5.12E-01		0.00E+00
MnO2	3.74E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Mn(OH)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
MoO3	1.68E+01		5.37E-01	0.00E+00	2.73E-02		0.00E+00
Na3BO3	9.94E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Li3PO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2B4O7	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2C2O4	0.00E+00		0.00E+00	1.00E+00	0.00E+00		0.00E+00
Na2CO3	4.52E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaCl	6.43E+01		1.78E+01	0.00E+00	3.45E+00		0.00E+00
spare	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2CrO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaF	2.54E+00		2.24E+02	0.00E+00	4.33E+01		0.00E+00
NaH2PO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaHCO3	4.80E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaI	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
H3PO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MELTER FEED W/O GLASS FORMERS	MELTER FEED GLASS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
FeO		0.00E+00	0.00E+00	0.00E+00			
Fe(OH)3		5.21E+04	5.21E+04	7.79E+01			
Fe2O3		2.15E+03	2.15E+03	3.21E+00	8.90E+01	5.76E+04	5.77E+04
FePO4		6.35E+03	6.35E+03	9.49E+00		Fe2O3,P2O5	
Gd(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Gd2O3		5.65E-03	5.65E-03	8.44E-06		1.70E+00	1.70E+00
Gd(OH)3		1.69E+00	1.69E+00	2.53E-03			
Ge(NO3)4		0.00E+00	0.00E+00	0.00E+00			
GeO2		2.18E-05	2.18E-05	3.26E-08		6.55E-03	6.55E-03
Ge(OH)4		6.52E-03	6.52E-03	9.75E-06			
H3BO3		0.00E+00	0.00E+00	0.00E+00		B2O3	
H2CO3		0.00E+00	0.00E+00	0.00E+00			
H2C2O4		0.00E+00	0.00E+00	0.00E+00			
HCl		0.00E+00	0.00E+00	0.00E+00		NaCl	
HF		0.00E+00	0.00E+00	0.00E+00		NaF	
HNO3		0.00E+00	0.00E+00	0.00E+00			
H2SO4		0.00E+00	0.00E+00	0.00E+00		0.6 Na2SO4	
Hg		6.51E+00	6.51E+00	9.72E-03		2.62E+01	2.62E+01
Hg2Cl2		0.00E+00	0.00E+00	0.00E+00		Hg,NaCl	
Hg2I2		0.00E+00	0.00E+00	0.00E+00		Hg,I2	
Hg(NO3)2		0.00E+00	0.00E+00	0.00E+00		Hg	
HgO		0.00E+00	0.00E+00	0.00E+00		Hg	
Hg(OH)2		1.97E+01	1.97E+01	2.94E-02		Hg,H2O,O2	
In(NO3)3		0.00E+00	0.00E+00	0.00E+00			
In2O3		9.01E-04	9.01E-04	1.35E-06		2.70E-01	2.70E-01
In(OH)3		2.70E-01	2.70E-01	4.03E-04			
K2CrO4		1.37E+01	1.37E+01	2.05E-02		K2O,Cr2O3	
KMnO4		6.66E+01	6.66E+01	9.96E-02		K2O,MnO2	
KNO3		1.41E+02	1.41E+02	2.10E-01			
K2O		5.92E+01	5.92E+01	8.84E-02	1.75E+04	2.31E+02	1.78E+04
KOH		0.00E+00	0.00E+00	0.00E+00			
La(NO3)3		0.00E+00	0.00E+00	0.00E+00			
La2O3		5.67E-01	5.67E-01	8.47E-04		1.70E+02	1.70E+02
La(OH)3		1.70E+02	1.70E+02	2.54E-01			
LiOH		0.00E+00	0.00E+00	0.00E+00			
LiNO3		9.29E-03	9.29E-03	1.39E-05			
Li2O		5.00E+01	5.00E+01	7.47E-02	1.50E+04	5.00E+01	1.50E+04
MgCO3		3.95E+02	3.95E+02	5.90E-01			
Mg(NO3)2		1.66E-03	1.66E-03	2.48E-06			
MgO		4.06E+02	4.06E+02	6.06E-01	3.47E+03	8.16E+02	4.29E+03
Mg(OH)2		1.55E+01	1.55E+01	2.31E-02			
Mn(NO3)2		0.00E+00	0.00E+00	0.00E+00			
MnO		1.59E+01	1.59E+01	2.37E-02	1.67E+03	3.10E+03	4.76E+03
MnO2		3.74E+03	3.74E+03	5.59E+00			
Mn(OH)2		0.00E+00	0.00E+00	0.00E+00			
MoO3		1.73E+01	1.73E+01	2.59E-02		5.66E+01	5.66E+01
Na3BO3		9.94E+02	9.94E+02	1.49E+00		Na2O,B2O3	
Li3PO4		0.00E+00	0.00E+00	0.00E+00		Li2O,P2O5	
Na2B4O7		0.00E+00	0.00E+00	0.00E+00		Na2O,B2O3	
Na2C2O4		0.00E+00	0.00E+00	0.00E+00			
Na2CO3		4.52E+01	4.52E+01	6.75E-02			
NaCl		8.56E+01	8.56E+01	1.28E-01		8.56E+01	8.56E+01
spare		0.00E+00	0.00E+00	0.00E+00			
Na2CrO4		0.00E+00	0.00E+00	0.00E+00		Na2O,Cr2O3	
NaF		2.70E+02	2.70E+02	4.03E-01		1.07E+03	1.07E+03
NaH2PO4		0.00E+00	0.00E+00	0.00E+00			
NaHCO3		4.80E+01	4.80E+01	7.18E-02			
NaI		0.00E+00	0.00E+00	0.00E+00		Na2O,I2	
H3PO4		0.00E+00	0.00E+00	0.00E+00			

STREAM NUMBER			1	2	3	4	5
STREAM NAME			THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE
COMPONENT KG	MOLECULAR WEIGHT	OXIDE EQUIVALENT	kg	kg	kg	kg	kg
Na2MoO4	205.95	0.9999	5.40E+01	0.00E+00	5.40E+01	6.91E+02	0.00E+00
NaNO2	69.00	0.4491	0.00E+00	0.00E+00	0.00E+00	1.40E+05	0.00E+00
NaNO3	85.01	0.3645	8.28E+01	0.00E+00	8.28E+01	2.20E+05	0.00E+00
Na2O	61.98	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NaOH	40.01	0.7746	0.00E+00	0.00E+00	0.00E+00	1.36E+04	0.00E+00
Na3PO4	163.94	1.0002	1.20E+01	0.00E+00	1.20E+01	3.80E+03	0.00E+00
Na2PuO2(OH)4	385.00	0.8650	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2RhO4	212.91	0.9247	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2RuO4	211.07	0.9241	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na2SO4	142.06	1.0000	1.80E+02	0.00E+00	1.80E+02	7.63E+04	0.00E+00
Na2SeO4	188.96	0.9152	9.15E-01	0.00E+00	9.15E-01	1.37E+01	0.00E+00
Na2SiO3	122.08	0.9998	1.26E+02	0.00E+00	1.26E+02	0.00E+00	0.00E+00
NaTcO4	186.00	0.9994	1.10E+01	0.00E+00	1.10E+01	1.77E+02	0.00E+00
Na2TeO4	237.58	0.9327	4.66E+00	0.00E+00	4.66E+00	7.65E+01	0.00E+00
Na2U2O7	634.00	0.9497	0.00E+00	0.00E+00	0.00E+00	2.19E+02	0.00E+00
Nd(NO3)3	330.35	0.5093	3.72E+01	0.00E+00	3.72E+01	0.00E+00	0.00E+00
Nd2O3	336.48	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd(OH)3	234.26	0.7182	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E+02
Ni	58.71	1.2725	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni(NO3)2	182.81	0.4087	3.23E+02	0.00E+00	3.23E+02	0.00E+00	0.00E+00
NiO	74.71	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni(OH)2	92.74	0.8056	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E+02
Np(NO3)4	485.00	0.5547	4.99E-01	0.00E+00	4.99E-01	0.00E+00	0.00E+00
NpO2	269.05	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E+01
Np(OH)4	301.00	0.8939	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P2O5	141.99	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pa(NO3)4	279.04	0.9427	6.60E-01	0.00E+00	6.60E-01	0.00E+00	0.00E+00
PaO2	263.04	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pa(OH)4	299.04	0.8796	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd	106.40	1.1504	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd(NO3)2	230.42	0.5312	4.25E+00	0.00E+00	4.25E+00	0.00E+00	0.00E+00
PdO	122.40	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pd(OH)2	140.40	0.8718	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E+01
Pm(NO3)3	333.00	0.5132	5.13E-03	0.00E+00	5.13E-03	0.00E+00	0.00E+00
Pm2O3	341.80	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pm(OH)3	197.90	0.8636	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00
Pr(NO3)3	326.91	0.5044	1.06E+01	0.00E+00	1.06E+01	0.00E+00	0.00E+00
Pr2O3	329.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr(OH)3	191.93	0.8592	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E+02
Pu(NO3)4	488.16	0.5552	3.89E-01	0.00E+00	3.89E-01	0.00E+00	0.00E+00
PuO2	271.05	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+01
RbNO3	147.47	0.6338	3.80E+00	0.00E+00	3.80E+00	7.54E+01	0.00E+00
Rb2O	186.94	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh	102.91	1.3109	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh(NO3)4	350.91	0.3844	4.23E+00	0.00E+00	4.23E+00	0.00E+00	0.00E+00
RhO2	134.90	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh(OH)4	170.91	0.7893	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E+01
Ru	101.07	1.3166	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru(NO3)4	349.07	0.3812	1.60E+01	0.00E+00	1.60E+01	0.00E+00	0.00E+00
RuO2	133.07	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
spare	165.07	0.8061	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru(OH)4	169.07	0.7871	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+02
SO3	80.07	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb(NO3)3	307.75	0.3481	3.48E-02	0.00E+00	3.48E-02	0.00E+00	0.00E+00
Sb2O3	291.50	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sb(OH)3	172.75	0.8437	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-01
SeO2	110.96	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Si(NO3)4	276.10	0.2176	0.00E+00	0.00E+00	0.00E+00	5.00E+01	0.00E+00
SiO2	60.08	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+03

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	8D1 CONDENSATE	8D2 CHEMICAL ADD	8D2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2MoO4	6.91E+02	0.00E+00			6.91E+02	6.16E+02	7.51E+01
NaNO2	1.40E+05	0.00E+00			1.40E+05	1.25E+05	1.52E+04
NaNO3	2.20E+05	0.00E+00			2.20E+05	1.96E+05	2.39E+04
Na2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
NaOH	1.36E+04	0.00E+00			1.36E+04	1.21E+04	1.48E+03
Na3PO4	3.80E+03	0.00E+00			3.80E+03	3.39E+03	4.13E+02
Na2PuO2(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2RhO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2RuO4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Na2SO4	7.63E+04	0.00E+00			7.63E+04	6.80E+04	8.29E+03
Na2SeO4	1.37E+01	0.00E+00			1.37E+01	1.22E+01	1.49E+00
Na2SiO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
NaTcO4	1.77E+02	0.00E+00			1.77E+02	1.58E+02	1.92E+01
Na2TeO4	7.65E+01	0.00E+00			7.65E+01	6.82E+01	8.31E+00
Na2U2O7	2.19E+02	0.00E+00			2.19E+02	1.96E+02	2.38E+01
Nd(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Nd2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Nd(OH)3	4.46E+02	0.00E+00			4.46E+02	0.00E+00	4.46E+02
Ni	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ni(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
NiO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ni(OH)2	8.76E+02	0.00E+00			8.76E+02	0.00E+00	8.76E+02
Np(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
NpO2	3.50E+01	0.00E+00			3.50E+01	0.00E+00	3.50E+01
Np(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
P2O5	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pa(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
PaO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pa(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pd	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pd(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
PdO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pd(OH)2	2.96E+01	0.00E+00			2.96E+01	0.00E+00	2.96E+01
Pm(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pm2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pm(OH)3	1.30E+00	0.00E+00			1.30E+00	0.00E+00	1.30E+00
Pr(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pr2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Pr(OH)3	1.46E+02	0.00E+00			1.46E+02	0.00E+00	1.46E+02
Pu(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
PuO2	3.70E+01	0.00E+00			3.70E+01	0.00E+00	3.70E+01
RbNO3	7.54E+01	0.00E+00			7.54E+01	6.72E+01	8.20E+00
Rb2O	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Rh	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Rh(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
RhO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Rh(OH)4	6.24E+01	0.00E+00			6.24E+01	0.00E+00	6.24E+01
Ru	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ru(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
RuO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
spare	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Ru(OH)4	3.60E+02	0.00E+00			3.60E+02	0.00E+00	3.60E+02
SO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sb(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sb2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sb(OH)3	5.91E-01	0.00E+00			5.91E-01	0.00E+00	5.91E-01
SeO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Si(NO3)4	5.00E+01	0.00E+00			5.00E+01	4.46E+01	5.44E+00
SiO2	1.26E+03	5.00E+03			1.26E+03	0.00E+00	1.26E+03

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2MoO4		0.00E+00		7.30E+01	2.11E+00	0.00E+00	
NaNO2		0.00E+00		1.48E+04	4.28E+02	0.00E+00	
NaNO3		0.00E+00		2.32E+04	6.72E+02	0.00E+00	
Na2O		3.83E+03		0.00E+00	0.00E+00	3.83E+03	
NaOH		0.00E+00		1.43E+03	4.16E+01	0.00E+00	
Na3PO4		0.00E+00		4.01E+02	1.16E+01	0.00E+00	
Na2PuO2(OH)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2RhO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2RuO4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Na2SO4		0.00E+00		8.06E+03	2.33E+02	0.00E+00	
Na2SeO4		0.00E+00		1.45E+00	4.20E-02	0.00E+00	
Na2SiO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
NaTcO4		0.00E+00		1.87E+01	5.41E-01	0.00E+00	
Na2TeO4		0.00E+00		8.08E+00	2.34E-01	0.00E+00	
Na2U2O7		0.00E+00		2.32E+01	6.71E-01	0.00E+00	
Nd(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Nd2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Nd(OH)3		0.00E+00		0.00E+00	4.46E+02	0.00E+00	
Ni		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ni(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
NiO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ni(OH)2		0.00E+00		0.00E+00	8.76E+02	0.00E+00	
Np(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
NpO2		0.00E+00		0.00E+00	3.50E+01	0.00E+00	
Np(OH)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
P2O5		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pa(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
PaO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pa(OH)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pd		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pd(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
PdO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pd(OH)2		0.00E+00		0.00E+00	2.96E+01	0.00E+00	
Pm(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pm2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pm(OH)3		0.00E+00		0.00E+00	1.30E+00	0.00E+00	
Pr(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pr2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Pr(OH)3		0.00E+00		0.00E+00	1.46E+02	0.00E+00	
Pu(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
PuO2		0.00E+00		0.00E+00	3.70E+01	0.00E+00	
RbNO3		0.00E+00		7.97E+00	2.31E-01	0.00E+00	
Rb2O		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Rh		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Rh(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
RhO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Rh(OH)4		0.00E+00		0.00E+00	6.24E+01	0.00E+00	
Ru		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ru(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
RuO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
spare		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Ru(OH)4		0.00E+00		0.00E+00	3.60E+02	0.00E+00	
SO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sb(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sb2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sb(OH)3		0.00E+00		0.00E+00	5.91E-01	0.00E+00	
SeO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Si(NO3)4		0.00E+00		5.29E+00	1.53E-01	0.00E+00	
SiO2		3.36E+04	4.55E+02	0.00E+00	1.26E+03	3.91E+04	

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2 (50%)	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK FLUSH	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2MoO4			5.40E+01	0.00E+00			5.40E+01
NaNO2			0.00E+00	0.00E+00			0.00E+00
NaNO3			8.28E+0[illegible]	0.00E+00			1.57E+04
Na2O			0.00E+00	0.00E+00			0.00E+00
NaOH			0.00E+00	1.63E+04			3.95E-13
Na3PO4			1.20E+01	0.00E+00			1.20E+01
Na2PuO2(OH)4			0.00E+00	0.00E+00			0.00E+00
Na2RhO4			0.00E+00	0.00E+00			0.00E+00
Na2RuO4			0.00E+00	0.00E+00			0.00E+00
Na2SO4			1.80E+02	0.00E+00			1.65E+02
Na2SeO4			9.15E-01	0.00E+00			9.15E-01
Na2SiO3			1.26E+02	0.00E+00			1.26E+02
NaTcO4			1.10E+01	0.00E+00			1.10E+01
Na2TeO4			4.66E+00	0.00E+00			4.66E+00
Na2U2O7			0.00E+00	0.00E+00			0.00E+00
Nd(NO3)3			3.72E+01	0.00E+00			0.00E+00
Nd2O3			0.00E+00	0.00E+00			0.00E+00
Nd(OH)3			0.00E+00	0.00E+00			3.72E+01
Ni			0.00E+00	0.00E+00			0.00E+00
Ni(NO3)2			3.23E+02	0.00E+00			0.00E+00
NiO			0.00E+00	0.00E+00			0.00E+00
Ni(OH)2			0.00E+00	0.00E+00			3.23E+02
Np(NO3)4			4.99E-01	0.00E+00			0.00E+00
NpO2			0.00E+00	0.00E+00			0.00E+00
Np(OH)4			0.00E+00	0.00E+00			4.99E-01
P2O5			0.00E+00	0.00E+00			0.00E+00
Pa(NO3)4			6.60E-01	0.00E+00			0.00E+00
PaO2			0.00E+00	0.00E+00			0.00E+00
Pa(OH)4			0.00E+00	0.00E+00			6.60E-01
Pd			0.00E+00	0.00E+00			0.00E+00
Pd(NO3)2			4.25E+00	0.00E+00			0.00E+00
PdO			0.00E+00	0.00E+00			0.00E+00
Pd(OH)2			0.00E+00	0.00E+00			4.25E+00
Pm(NO3)3			5.13E-03	0.00E+00			0.00E+00
Pm2O3			0.00E+00	0.00E+00			0.00E+00
Pm(OH)3			0.00E+00	0.00E+00			5.13E-03
Pr(NO3)3			1.06E+01	0.00E+00			0.00E+00
Pr2O3			0.00E+00	0.00E+00			0.00E+00
Pr(OH)3			0.00E+00	0.00E+00			1.06E+01
Pu(NO3)4			3.89E-01	0.00E+00			0.00E+00
PuO2			0.00E+00	0.00E+00			3.89E-01
RbNO3			3.80E+00	0.00E+00			3.80E+00
Rb2O			0.00E+00	0.00E+00			0.00E+00
Rh			0.00E+00	0.00E+00			0.00E+00
Rh(NO3)4			4.23E+00	0.00E+00			0.00E+00
RhO2			0.00E+00	0.00E+00			0.00E+00
Rh(OH)4			0.00E+00	0.00E+00			4.23E+00
Ru			0.00E+00	0.00E+00			0.00E+00
Ru(NO3)4			1.60E+01	0.00E+00			0.00E+00
RuO2			0.00E+00	0.00E+00			0.00E+00
spare			0.00E+00	0.00E+00			0.00E+00
Ru(OH)4			0.00E+00	0.00E+00			1.60E+01
SO3			0.00E+00	0.00E+00			0.00E+00
Sb(NO3)3			3.48E-02	0.00E+00			0.00E+00
Sb2O3			0.00E+00	0.00E+00			0.00E+00
Sb(OH)3			0.00E+00	0.00E+00			4.74E-02
SeO2			0.00E+00	0.00E+00			0.00E+00
Si(NO3)4			0.00E+00	0.00E+00			0.00E+00
SiO2			0.00E+00	0.00E+00			0.00E+00

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED 8D2	8D2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	HEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2MoO4	5.61E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaNO2	4.28E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaNO3	1.64E+04		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2O	3.83E+03		5.89E+01	0.00E+00	5.84E+00		0.00E+00
NaOH	4.16E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na3PO4	2.36E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2PuO2(OH)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2RhO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2RuO4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2SO4	3.99E+02		2.68E+02	0.00E+00	4.30E-02		0.00E+00
Na2SeO4	9.57E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2SiO3	1.26E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NaTcO4	1.15E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2TeO4	4.90E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Na2U2O7	6.71E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Nd(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Nd2O3	0.00E+00		1.56E+00	0.00E+00	5.21E-02		0.00E+00
Nd(OH)3	4.83E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ni	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ni(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NiO	0.00E+00		3.88E+00	0.00E+00	1.29E-01		0.00E+00
Ni(OH)2	1.20E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Np(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
NpO2	3.50E+01		1.15E-01	0.00E+00	3.83E-03		0.00E+00
Np(OH)4	4.99E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
P2O5	0.00E+00		3.62E+01	0.00E+00	1.21E+00		0.00E+00
Pa(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
PaO2	0.00E+00		2.13E-03	0.00E+00	7.11E-05		0.00E+00
Pa(OH)4	6.60E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pd	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pd(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
PdO	0.00E+00		1.10E-01	0.00E+00	3.65E-03		0.00E+00
Pd(OH)2	3.39E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pm(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pm2O3	0.00E+00		4.20E-03	0.00E+00	1.40E-04		0.00E+00
Pm(OH)3	1.30E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pr(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pr2O3	0.00E+00		5.06E-01	0.00E+00	1.69E-02		0.00E+00
Pr(OH)3	1.57E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Pu(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
PuO2	3.74E+01		1.21E-01	0.00E+00	4.03E-03		0.00E+00
RbNO3	4.03E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Rb2O	0.00E+00		1.30E-02	0.00E+00	4.35E-04		0.00E+00
Rh	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Rh(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
RhO2	0.00E+00		2.15E-01	0.00E+00	7.18E-03		0.00E+00
Rh(OH)4	6.66E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ru	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ru(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
RuO2	0.00E+00		3.97E+01	0.00E+00	2.02E+00		0.00E+00
spare	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Ru(OH)4	3.76E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Sb(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Sb2O3	0.00E+00		2.06E-03	0.00E+00	6.87E-05		0.00E+00
Sb(OH)3	6.38E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SeO2	0.00E+00		2.69E-02	0.00E+00	5.21E-03		0.00E+00
Si(NO3)4	1.53E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SiO2	4.03E+04		6.65E+02	0.00E+00	2.22E+01		0.00E+00

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MELTER FEED W/O GLASS FORMERS	MELTER FEED GLASS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Na2MoO4		5.61E+01	5.61E+01	8.38E-02		Na2O,MO3	
NaNO2		4.28E+02	4.28E+02	6.39E-01			
NaNO3		1.64E+04	1.64E+04	2.45E+01			
Na2O		3.90E+03	3.90E+03	5.82E+00	3.32E+04	2.12E+04	5.44E+04
NaOH		4.16E+01	4.16E+01	6.21E-02			
Na3PO4		2.36E+01	2.36E+01	3.53E-02		Na2O,P2O5	
Na2PuO2(OH)4		0.00E+00	0.00E+00	0.00E+00		Na2O,PuO2	
Na2RhO4		0.00E+00	0.00E+00	0.00E+00		Na2O,RhO2	
Na2RuO4		0.00E+00	0.00E+00	0.00E+00		Na2O,RuO2	
Na2SO4		6.67E+02	6.67E+02	9.96E-01		4.00E+02	4.00E+02
Na2SeO4		9.57E-01	9.57E-01	1.43E-03		Na2O,SeO2	
Na2SiO3		1.26E+02	1.26E+02	1.88E-01		Na2O,SiO2	
NaTcO4		1.15E+01	1.15E+01	1.72E-02		Na2O,Tc2O7	
Na2TeO4		4.90E+00	4.90E+00	7.32E-03		Na2O,TeO2	
Na2U2O7		6.71E-01	6.71E-01	1.00E-03		Na2O,UO2	
Nd(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Nd2O3		1.61E+00	1.61E+00	2.41E-03		4.85E+02	4.85E+02
Nd(OH)3		4.83E+02	4.83E+02	7.22E-01			
Ni		0.00E+00	0.00E+00	0.00E+00			
Ni(NO3)2		0.00E+00	0.00E+00	0.00E+00			
NiO		4.01E+00	4.01E+00	5.99E-03		1.20E+03	1.20E+03
Ni(OH)2		1.20E+03	1.20E+03	1.79E+00			
Np(NO3)4		0.00E+00	0.00E+00	0.00E+00			
NpO2		3.51E+01	3.51E+01	5.25E-02		3.56E+01	3.56E+01
Np(OH)4		4.99E-01	4.99E-01	7.46E-04			
P2O5		3.74E+01	3.74E+01	5.59E-02	8.21E+03	3.04E+03	1.12E+04
Pa(NO3)4		0.00E+00	0.00E+00	0.00E+00			
PaO2		2.20E-03	2.20E-03	3.29E-06		6.62E-01	6.62E-01
Pa(OH)4		6.60E-01	6.60E-01	9.86E-04			
Pd		0.00E+00	0.00E+00	0.00E+00			
Pd(NO3)2		0.00E+00	0.00E+00	0.00E+00			
PdO		1.13E-01	1.13E-01	1.69E-04		3.40E+01	3.40E+01
Pd(OH)2		3.39E+01	3.39E+01	5.06E-02			
Pm(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Pm2O3		4.34E-03	4.34E-03	6.49E-06		1.30E+00	1.30E+00
Pm(OH)3		1.30E+00	1.30E+00	1.94E-03			
Pr(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Pr2O3		5.23E-01	5.23E-01	7.82E-04		1.57E+02	1.57E+02
Pr(OH)3		1.57E+02	1.57E+02	2.34E-01			
Pu(NO3)4		0.00E+00	0.00E+00	0.00E+00			
PuO2		3.75E+01	3.75E+01	5.61E-02		3.75E+01	3.75E+01
RbNO3		4.03E+00	4.03E+00	6.03E-03			
Rb2O		1.35E-02	1.35E-02	2.01E-05		4.05E+00	4.05E+00
Rh		0.00E+00	0.00E+00	0.00E+00			
Rh(NO3)4		0.00E+00	0.00E+00	0.00E+00			
RhO2		2.22E-01	2.22E-01	3.32E-04		6.68E+01	6.68E+01
Rh(OH)4		6.66E+01	6.66E+01	9.95E-02			
Ru		0.00E+00	0.00E+00	0.00E+00			
Ru(NO3)4		0.00E+00	0.00E+00	0.00E+00			
RuO2		4.18E+01	4.18E+01	6.24E-02		4.18E+02	4.18E+02
spare		0.00E+00	0.00E+00	0.00E+00			
Ru(OH)4		3.76E+02	3.76E+02	5.63E-01			
SO3		0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Sb(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Sb2O3		2.13E-03	2.13E-03	3.18E-06		6.40E-01	6.40E-01
Sb(OH)3		6.38E-01	6.38E-01	9.53E-04			
SeO2		3.21E-02	3.21E-02	4.80E-05		6.46E-01	6.46E-01
Si(NO3)4		1.53E-01	1.53E-01	2.29E-04			
SiO2		4.10E+04	4.10E+04	6.13E+01	1.65E+05	4.11E+04	2.07E+05

STREAM NUMBER			1	2	3	4	5
STREAM NAME			THOREX SUPERNATANT 2/26/87	THOREX SLUDGE 2/26/87	THOREX WASTE 2/26/87	PUREX SUPERNATANT 9/26/82	PUREX SLUDGE
COMPONENT KG	MOLECULAR WEIGHT	OXIDE EQUIVALENT	kg	kg	kg	kg	kg
Sm(NO3)3	336.46	0.5182	7.25E+00	0.00E+00	7.25E+00	0.00E+00	0.00E+00
Sm2O3	348.70	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sm(OH)3	201.37	0.8658	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+02
Sn(NO3)4	366.71	0.4110	2.88E-01	0.00E+00	2.88E-01	1.01E+02	0.00E+00
SnO2	150.70	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sn(OH)4	186.69	0.8072	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E+00
SrCO3	147.64	0.7019	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr(NO3)2	211.69	0.4895	7.83E+00	0.00E+00	7.83E+00	1.96E+00	0.00E+00
SrO	103.63	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr(OH)2	121.64	0.8519	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SrSO4	183.70	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+02
SUGAR(C12H22O11	342.30	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb(NO3)3	345.00	0.5302	2.12E-03	0.00E+00	2.12E-03	0.00E+00	0.00E+00
Tb2O3	365.85	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tb(OH)3	209.93	0.8714	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc2O7	309.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TeO2	159.60	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th(NO3)4	480.06	0.5500	1.71E+04	0.00E+00	1.71E+04	0.00E+00	0.00E+00
ThO2	264.05	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th(OH)4	300.04	0.8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TiO2	79.90	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2(NO3)2	394.10	0.6853	4.11E+00	0.00E+00	4.11E+00	0.00E+00	0.00E+00
UO2	270.07	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO3	286.07	0.9441	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
UO2(OH)2	304.07	0.8882	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E+03
Y2(CO3)3	357.86	0.6310	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y(NO3)3	275.00	0.4106	5.75E+00	0.00E+00	5.75E+00	0.00E+00	0.00E+00
Y2O3	225.81	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y(OH)3	139.93	0.8069	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E+01
spare	spare	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn(NO3)2	189.47	0.4295	4.29E+00	0.00E+00	4.29E+00	0.00E+00	0.00E+00
ZnO	81.37	1.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn(OH)2	99.37	0.8189	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+02
Zr(NO3)4	339.23	0.3632	4.36E+00	0.00E+00	4.36E+00	0.00E+00	0.00E+00
ZrO2	123.22	1.0000	0.00E+00	3.50E+01	3.50E+01	0.00E+00	0.00E+00
Zr(OH)4	159.25	0.7738	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E+02
TOTAL OXIDES			22,964	35	22,999	512,767	75,034
TOTAL OXIDES			22,964	35	22,999	512,767	75,034
SO3 Equivalent		kg	101.454	0.000	101.454	42,983.375	198.532
		wt% oxides	0.44%	0.00%	0.44%	8.38%	0.26%

STREAM NUMBER	6	7	8	9	10	11	12
STREAM NAME	PUREX WASTE	BD1 CONDENSATE	BD2 CHEMICAL ADD	BD2 WATER ADD	ADJUSTED PUREX WASTE	DECANTED PUREX SUPERNATANT	DECANTED PUREX SLUDGE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Sm(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sm2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sm(OH)3	1.24E+02	0.00E+00			1.24E+02	0.00E+00	1.24E+02
Sn(NO3)4	1.01E+02	0.00E+00			1.01E+02	8.97E+01	1.09E+01
SnO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sn(OH)4	2.02E+00	0.00E+00			2.02E+00	0.00E+00	2.02E+00
SrCO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sr(NO3)2	1.96E+00	0.00E+00			1.96E+00	1.75E+00	2.13E-01
SrO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Sr(OH)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
S, 3O4	2.17E+02	0.00E+00			2.17E+02	0.00E+00	2.17E+02
SUGAR(C12H22O11	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Tb(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Tb2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Tb(OH)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Tc2O7	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
TeO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Th(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
ThO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Th(OH)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
TiO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
UO2(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
UO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
UO3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
UO2(OH)2	2.74E+03	0.00E+00			2.74E+03	0.00E+00	2.74E+03
Y2(CO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Y(NO3)3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Y2O3	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Y(OH)3	8.31E+01	0.00E+00			8.31E+01	0.00E+00	8.31E+01
spare	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Zn(NO3)2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
ZnO	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Zn(OH)2	1.05E+02	0.00E+00			1.05E+02	0.00E+00	1.05E+02
Zr(NO3)4	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
ZrO2	0.00E+00	0.00E+00			0.00E+00	0.00E+00	0.00E+00
Zr(OH)4	7.46E+02	0.00E+00			7.46E+02	0.00E+00	7.46E+02
TOTAL OXIDES	587,801	5,000			587,801	457,028	99,852
TOTAL OXIDES	587,801	5,000			587,801	457,028	99,852
SO3 Equivalent	43,181.907	0.000	0.000	0.000	43,181.907	38,310.937	4,870.969
	7.35%	0.00%	0.00%	0.00%	7.35%	8.38%	4.88%

STREAM NUMBER	13	14	15	16	17	18	19
STREAM NAME	SLUDGE WASH WATER	IX ZEOLITE SLURRY 8D1	SAND FILTER SLURRY 8D1	SLUDGE WASH SUPERNATANT	WASHED PUREX SLUDGE	8D1 WASTE BLEND	8D1 HEEL FLUSH
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Sm(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sm2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sm(OH)3		0.00E+00		0.00E+00	1.24E+02	0.00E+00	
Sn(NO3)4		0.00E+00		1.06E+01	3.08E-01	0.00E+00	
SnO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sn(OH)4		0.00E+00		0.00E+00	2.02E+00	0.00E+00	
SrCO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Sr(NO3)2		0.00E+00		2.07E-01	5.99E-03	0.00E+00	
SrO		2.24E+01		0.00E+00	0.00E+00	2.24E+01	
Sr(OH)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
SrSO4		0.00E+00		0.00E+00	2.17E+02	0.00E+00	
SUGAR(C12H22O11)		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Tb(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Tb2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Tb(OH)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Tc2O7		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
TeO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Th(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
ThO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Th(OH)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
TiO2		1.68E+01		0.00E+00	0.00E+00	1.68E+01	
UO2(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
UO2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
UO3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
UO2(OH)2		0.00E+00		0.00E+00	2.74E+03	0.00E+00	
Y2(CO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Y(NO3)3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Y2O3		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Y(OH)3		0.00E+00		0.00E+00	8.31E+01	0.00E+00	
spare		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Zn(NO3)2		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
ZnO		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
Zn(OH)2		0.00E+00		0.00E+00	1.05E+02	0.00E+00	
Zr(NO3)4		0.00E+00		0.00E+00	0.00E+00	0.00E+00	
ZrO2		2.24E+01		0.00E+00	0.00E+00	2.24E+01	
Zr(OH)4		0.00E+00		0.00E+00	7.46E+02	0.00E+00	
TOTAL OXIDES	0	49,588	455	54,170	76,603	55,042	
TOTAL OXIDES	0	49,588	455	54,170	76,603	55,042	
SO3 Equivalent	0.000	0.000	0.000	4,540.890	330.080	0.000	0.000
	0.00%	0.00%	0.00%	8.38%	0.43%	0.00%	0.00%

STREAM NUMBER	20	21	22	23	24	25	26
STREAM NAME	8D4 CHEMICAL ADD	8D4 WATER ADD	ADJUSTED THOREX WASTE	CAUSTIC ADDITION TO 8D2 (50%)	CAUSTIC WATER FLUSH TO 8D2	8D4 TANK 'S'	NEUTRALIZED THOREX WASTE IN 8D2
COMPONENT KG	kg	kg	kg	kg	kg		kg
Sm(NO3)3			7.25E+00	0.00E+00			0.00E+00
Sm2O3			0.00E+00	0.00E+00			0.00E+00
Sm(OH)3			0.00E+00	0.00E+00			7.25E+00
Sn(NO3)4			2.88E-01	0.00E+00			0.00E+00
SnO2			0.00E+00	0.00E+00			0.00E+00
Sn(OH)4			0.00E+00	0.00E+00			2.88E-01
SrCO3			0.00E+00	0.00E+00			0.00E+00
Sr(NO3)2			7.83E+00	0.00E+00			0.00E+00
SrO			0.00E+00	0.00E+00			0.00E+00
Sr(OH)2			0.00E+00	0.00E+00			0.00E+00
SrSO4			0.00E+00	0.00E+00			1.39E+01
SUGAR(C12H22O11)			0.00E+00	0.00E+00			0.00E+00
Tb(NO3)3			2.12E-03	0.00E+00			0.00E+00
Tb2O3			0.00E+00	0.00E+00			0.00E+00
Tb(OH)3			0.00E+00	0.00E+00			2.12E-03
Tc2O7			0.00E+00	0.00E+00			0.00E+00
TeO2			0.00E+00	0.00E+00			0.00E+00
Th(NO3)4			1.71E+04	0.00E+00			0.00E+00
ThO2			0.00E+00	0.00E+00			0.00E+00
Th(OH)4			0.00E+00	0.00E+00			1.71E+04
TiO2			0.00E+00	0.00E+00			0.00E+00
UO2(NO3)2			4.11E+00	0.00E+00			0.00E+00
UO2			0.00E+00	0.00E+00			0.00E+00
UO3			0.00E+00	0.00E+00			0.00E+00
UO2(OH)2			0.00E+00	0.00E+00			4.11E+00
Y2(CO3)3			0.00E+00	0.00E+00			0.00E+00
Y(NO3)3			5.75E+00	0.00E+00			0.00E+00
Y2O3			0.00E+00	0.00E+00			0.00E+00
Y(OH)3			0.00E+00	0.00E+00			5.75E+00
spare			0.00E+00	0.00E+00			0.00E+00
Zn(NO3)2			4.29E+00	0.00E+00			0.00E+00
ZnO			0.00E+00	0.00E+00			0.00E+00
Zn(OH)2			0.00E+00	0.00E+00			4.29E+00
Zr(NO3)4			4.36E+00	0.00E+00			0.00E+00
ZrO2			3.50E+01	0.00E+00			3.50E+01
Zr(OH)4			0.00E+00	0.00E+00			4.36E+00
TOTAL OXIDES			22,999	16,331		0	39,308
TOTAL OXIDES			22,999	16,331		0	39,308
SO3 Equivalent	0.000	0.000	101.454	0.000	0.000	0.000	107.506
	0.00%	0.00%	0.44%	0.00%	0.00%	0.00%	0.27%

STREAM NUMBER	27	28	29	30	31	32	33
STREAM NAME	VITRIFICATION SYSTEM FEED BD2	BD2 SLURRY TRANSFER FLUSH	SBS RECYCLE	CANISTER DECON SOLN RECYCLE	FEME FLUSH/COND RECYCLE	LWTS CONCENTRATE RECYCLE	WASTE HEADER RECYCLE
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Sm(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Sm2O3	0.00E+00		4.24E-01	0.00E+00	1.41E-02		0.00E+00
Sm(OH)3	1.31E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Sn(NO3)4	3.08E-01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SnO2	0.00E+00		8.45E-03	0.00E+00	2.82E-04		0.00E+00
Sn(OH)4	2.31E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SrCO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Sr(NO3)2	5.99E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SrO	2.24E+01		7.23E-02	0.00E+00	2.41E-03		0.00E+00
Sr(OH)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
SrSO4	2.31E+02		7.46E-01	0.00E+00	2.49E-02		0.00E+00
SUGAR(C12H22O11	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Tb(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Tb2O3	0.00E+00		6.86E-06	0.00E+00	2.29E-07		0.00E+00
Tb(OH)3	2.12E-03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Tc2O7	0.00E+00		8.89E-01	0.00E+00	1.72E-01		0.00E+00
TeO2	0.00E+00		1.55E-01	0.00E+00	2.99E-02		0.00E+00
Th(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
ThO2	0.00E+00		5.52E+01	0.00E+00	1.84E+00		0.00E+00
Th(OH)4	1.71E+04		0.00E+00	0.00E+00	0.00E+00		0.00E+00
TiO2	1.68E+01		1.40E+01	0.00E+00	4.65E-01		0.00E+00
UO2(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
UO2	0.00E+00		8.88E+00	0.00E+00	2.96E-01		0.00E+00
UO3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
UO2(OH)2	2.75E+03		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Y2(CO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Y(NO3)3	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Y2O3	0.00E+00		2.87E-01	0.00E+00	9.58E-03		0.00E+00
Y(OH)3	8.89E+01		0.00E+00	0.00E+00	0.00E+00		0.00E+00
spare	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Zn(NO3)2	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
ZnO	0.00E+00		3.53E-01	0.00E+00	1.18E-02		0.00E+00
Zn(OH)2	1.09E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
Zr(NO3)4	0.00E+00		0.00E+00	0.00E+00	0.00E+00		0.00E+00
ZrO2	5.74E+01		2.61E+00	0.00E+00	8.70E-02		0.00E+00
Zr(OH)4	7.50E+02		0.00E+00	0.00E+00	0.00E+00		0.00E+00
TOTAL OXIDES	170,953	0	2,825	0	99		0
TOTAL OXIDES	170,953	0	2,825	0	99		0
SO3 Equivalent	437.586	0.000	151.736	0.000	0.047	0.000	0.000
	0.26%	0.00%	5.37%	0.00%	0.05%	0.00%	0.00%

STREAM NUMBER	34	35	36	37	38	39	40
STREAM NAME	NONROUTINE WASTE RECYCLE	DILUTE CFMUT WASTE FEED	CONCENTRATED CFMUT WASTE	CFMUT WASTE OVERHEADS	GLASS FORMERS	MELTER FEED W/O GLASS FORMERS	MELTER FEED GLASS
COMPONENT KG	kg	kg	kg	kg	kg	kg	kg
Sm(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Sm2O3		4.38E-01	4.38E-01	6.54E-04		1.32E+02	1.32E+02
Sm(OH)3		1.31E+02	1.31E+02	1.96E-01			
Sn(NO3)4		3.08E-01	3.08E-01	4.60E-04			
SnO2		8.73E-03	8.73E-03	1.30E-05		2.62E+00	2.62E+00
Sn(OH)4		2.31E+00	2.31E+00	3.45E-03			
SrCO3		0.00E+00	0.00E+00	0.00E+00			
Sr(NO3)2		5.99E-03	5.99E-03	8.95E-06			
SrO		2.24E+01	2.24E+01	3.35E-02		2.25E+01	2.25E+01
Sr(OH)2		0.00E+00	0.00E+00	0.00E+00			
SrSO4		2.32E+02	2.32E+02	3.46E-01		2.32E+02	2.32E+02
SUGAR(C12H22O11)		0.00E+00	0.00E+00	0.00E+00		0.00E+00	
Tb(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Tb2O3		7.09E-06	7.09E-06	1.06E-08		2.13E-03	2.13E-03
Tb(OH)3		2.12E-03	2.12E-03	3.17E-06			
Tc2O7		1.06E+00	1.06E+00	1.59E-03		1.07E+01	1.07E+01
TeO2		1.85E-01	1.85E-01	2.76E-04		3.71E+00	3.71E+00
Th(NO3)4		0.00E+00	3.78E+02	0.00E+00			
ThO2		5.71E+01	5.71E+01	8.53E-02		1.71E+04	1.71E+04
Th(OH)4		1.71E+04	1.67E+04	2.55E+01			
TiO2		3.12E+01	3.12E+01	4.66E-02	4.30E+03	3.12E+01	4.33E+03
UO2(NO3)2		0.00E+00	0.00E+00	0.00E+00			
UO2		9.18E+00	9.18E+00	1.37E-02		2.76E+03	2.76E+03
UO3		0.00E+00	0.00E+00	0.00E+00			
UO2(OH)2		2.75E+03	2.75E+03	4.10E+00			
Y2(CO3)3		0.00E+00	0.00E+00	0.00E+00			
Y(NO3)3		0.00E+00	0.00E+00	0.00E+00			
Y2O3		2.97E-01	2.97E-01	4.44E-04		8.92E+01	8.92E+01
Y(OH)3		8.89E+01	8.89E+01	1.33E-01			
spare		0.00E+00	0.00E+00	0.00E+00		0.00E+00	
Zn(NO3)2		0.00E+00	0.00E+00	0.00E+00			
ZnO		3.65E-01	3.65E-01	5.45E-04		1.09E+02	1.09E+02
Zn(OH)2		1.09E+02	1.09E+02	1.63E-01			
Zr(NO3)4		0.00E+00	0.00E+00	0.00E+00			
ZrO2		6.01E+01	6.01E+01	8.98E-02		8.10E+02	8.10E+02
Zr(OH)4		7.50E+02	7.50E+02	1.12E+00			
TOTAL OXIDES		173,877	173,877	260	313,701	172,434	486,135
TOTAL OXIDES		173,877	173,877	260	313,701	172,434	476,374
							486,135
SO3 Equivalent	0.000	589.369	589.369	0.881	0.000	589.4	589.4
	0.00%	0.34%	0.34%	0.34%	0.00%	0.34%	0.12%

WEST VALLEY HIGH LEVEL WASTE FLOW SHEET
PARAMETER SELECTIONS

PARAMETER(COLUMN A-B)	NUMBER(COLUMN C)
WEST VALLEY WASTE COMPOSITION	
LOTUS COLUMNS D - I	
YEAR RADIONUCLIDES DECAYED TO, Yr	1990
WEST VALLEY 8D1 SLUDGE WASHING	
LOTUS COLUMNS J - V	
J/7 8D1 CONDENSATE	
1. Water Level in 8D1	6.00 ft
MAS,8/26/87	654,000 l
2. Solids Composition per MAS	
a. Rust(Fe2O3)	0 lb
b. Dirt(SiO2)	11,000 lb
3. Radionuclide Content per MAS as of 10/22/84	
a. 137-Cs	625 Ci
b. 90-Sr	625 Ci
N/11 DECANTED PUREX SUPERNATANT	
1. Supernatant Pump Heel	1.00 ft
	109,000 l
O/12 DECANTED PUREX SLUDGE	
1. Prewashed Total Sludge Height	1.50 ft
	163,500 l
2. Postwash Total Sludge Height	3.00 ft
	327,000 l
P/13 SLUDGE WASH WATER	
1. Number of Washes	4.00
2. Water Volume / Wash	632,000 l
	5.80 ft
3. Wash Supernatant Heel	1.00 ft
	109,000 l

Q/14 IX ZEOLITE SLURRY 8D1 (See Q44 to Q86 for parameter explanation)

1. 8D2 Supernatant Processed Per Cycle	36,000 l
2. 8D2 Wash Solution Processed Per Cycle	292,368 l
3. Water Produced In 8D1 Per IX Cycle	2,907 l
4. Zeolite (with hydration water) Produced In 8D1 Per IX Cycle	1,200 l
5. Fraction Of Cesium Recovered	0.999

R/15 SAND FILTER SLURRY TO 8D1

1. Total Number Of Sand Beds	1.000

WEST VALLEY 8D4 THOREX WASTE NEUTRALIZATION
LOTUS COLUMNS W - AC

AB/25 8D4 TANK FLUSH

1. 8D4 Water Flush	6,400 l

WEST VALLEY VITRIFICATION FEED MAKEUP
LOTUS COLUMNS AD - AP

BASIC VITRIFICATION PROCESS PARAMETERS

1. Waste Oxide Loading In Glass (Basis for trial glass formulation)	36.500 0.3650	wt% fraction
2. Melter Feed Concentration In FHT On Oxide Basis	450.00	g/l of TO
3. Melter Feed Batch Size In FHT	3250.00 12301.25	gal l
4. Jet Dilution	10.00	vol%
5. Vitrification Feed Water Dilution Factor	1.00	
6. Glass Per Canister	1900.00	kg
7. Glass Production Rate	45.0	kg/hr

8. Off Gas Decontamination Factors

Equipment Row Chemical Column	Melter	SBS	HEME	FILTERS
Nonvolatile				
Particulates	300.0	30.0	30.0	1,000,000.0
Semivolatiles				
Cs	50.0	30.0	30.0	SAME
B	50.0	2,000.0	30.0	AS
Ru	10.0	20.0	30.0	PARTICULATES
Mo	100.0	20.0	30.0	
Cl	4.0	6.0	30.0	
Fl	4.0	6.0	30.0	
Se	20.0	6.0	30.0	
Te	20.0	6.0	30.0	
S	Amt. Rxn.	Amt. Rxn.	Not Present	
Tc	10.0	6.0	30.0	
Hg	4.0	6.0	30.0	
Cd	10.0	6.0	30.0	
Volatiles	NOT APPLICABLE	1.0	1.0	1.0
COx				
I2	1.0			
NO2		Amt. Rxn.	Amt. Rxn.	
N2	1.0			
O2	1.0			
H2				
NO				

SOx from melter quantitatively reacts in SBS.

8. Air Inleakages/Supplies (Bases: Dry Air)
   See other bases in appropriate column notes

a. Melter	50.00	scfm
b. Film Cooler	140.00	scfm
c. Pressure Control	45.00	scfm
d. SBS Air Sparge	2.50	scfm
e. Vessel Vent	100.00	scfm
Total	337.50	

9. Glass Formulation

a. Waste Loading	36.50	wt%
Variable Location: C1325		
b. Composition Scaling Factor	1.0000	
c. Glass Weight: Basis		
Loading	476,374	kg
Calculated	486,135	kg
d. Critical Component	89	kg
Addition: Fe2O3 (= 0)		

e. Glass Composition	Wt%	Wt Fraction
Ag2O		0.00E+00
Al2O3	6.5400	6.54E-02
Am2O3	0.0056	5.57E-05
B2O3	10.2600	1.03E-01
BaO	0.0104	1.04E-04
BaSO4		0.00E+00
(CH2)10		0.00E+00
CaO	0.5000	5.00E-03
CaSO4		0.00E+00
CdO		0.00E+00
Ce2O3	0.0627	6.27E-04
Cm2O3		0.00E+00
CoO		0.00E+00
Cr2O3	0.1375	1.38E-03
Cs2O	0.0852	8.52E-04
CuO	0.0633	6.33E-04
Dy2O3		0.00E+00
Eu2O3		0.00E+00
Fe2O3	12.1200	1.21E-01
Gd2O3		0.00E+00
GeO2		0.00E+00
Hg		0.00E+00
In2O3		0.00E+00
K2O	3.7300	3.73E-02
La2O3	0.0350	3.50E-04
Li2O	3.1500	3.15E-02
MgO	0.9000	9.00E-03
MnO	1.0000	1.00E-02
MoO3	0.0116	1.16E-04
NaCl		0.00E+00
NaF		0.00E+00
Na2O	11.4200	1.14E-01
Na2SO4		0.00E+00
Nd2O3	0.0997	9.97E-04
NiO	0.2476	2.48E-03
NpO2	0.0073	7.33E-05
P2O5	2.3600	2.36E-02
PaO2		0.00E+00
PdO	0.0070	6.99E-05
Pm2O3		0.00E+00
Pr2O3	0.0323	3.23E-04
PuO2	0.0077	7.72E-05
Rb2O		0.00E+00
RhO2	0.0137	1.37E-04
RuO2	0.0860	8.60E-04
SO3	0.0000	0.00E+00
Sb2O3		0.00E+00
SeO2		0.00E+00
SiO2	43.3500	4.33E-01
Sm2O3		0.00E+00
SnO2		0.00E+00
SrO		0.00E+00
SrSO4		0.00E+00
Tb2O3		0.00E+00
Tc2O7		0.00E+00
TeO2		0.00E+00
ThO2		0.00E+00
TiO2	0.9090	9.09E-03
UO2		0.00E+00
Y2O3		0.00E+00
ZnO		0.00E+00
ZrO2		0.00E+00
		0.00E+00
		0.00E+00
Total	97.1519	9.72E-01

AE/28 BD2 SLURRY TRANSFER FLUSH

1. Water Flush Volume Per Feed Makeup	40.00 151.40	gal l

AF/29 SBS RECYCLE

1. Include In Recycle No=0, Yes=1	1.000	
2. SBS Jet Dilution	6.00	vol%

AG/30 CANISTER DECON SOLUTION RECYCLE

1. Flush/Jet Dilution Fctr	1.00	
2. Include In Recycle No=0, Yes=1	0.00E+00	

AH/31 HEME FLUSH CONDENSATE RECYCLE

1. Include In Recycle No=0, Yes=1	1.00	
2. Water Flush Frequency	720.0	hr
3. Water Flush Volume	90.0	gal

AJ/33 WASTE HEADER RECYCLE

1. Include In Recycle No=0, Yes=1	0.00E+00	

AN/37 CFMT WASTE OVERHEADS

1. Average Concentration Of Solids In Bottoms/ Average Concentration Of Solids In Overheads	1,000	

AP/39 MADE-UP MELTER FEED

1. Water Flush Per Batch Of Glass Formers	100	gal

BA/50 SBS OFF GAS

1. SBS Bed Temperature	45	C
2. SBS Bed Pressure	45	in H2O Vac.