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Radioactive Releases at the Savannah River Site 1954-1988

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An Environmental and Health Protection Department Summary

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Summary

Radioactive Releases at the Savannah River Site, 1954-1988 (WSRC-RP-89-737) is the continuation of a series of reports, previously titled *Releases of Radioactivity at the Savannah River Plant* (DPSPU-1-YR-25). The series reflects the use of air and liquid effluent sample analyses in determining the amount of radioactivity released from Savannah River Site (SRS) operations. The identification and characterization of these source terms since plant startup in 1954 have aided Site personnel in confining and limiting the amount of radioactivity released to the environment from SRS facilities.

Data contained in this report are used for a variety of purposes, including the calculation of offsite dose estimates and aiding special environmental studies. This document is an effluent/source term report; items falling under other categories, such as environmental spills or solid waste transport to the burial ground, are not included. Any classified or secret data have either been excluded, as in the case of 1960-1970 atmospheric releases of ^{86}Kr from the Sepa-

rations Area, or combined to avoid classification, such as atmospheric tritium releases from the Separations Area.

The report is divided into four summary sections. Summary A details volumes of air and water released from emission sources since plant startup. Summary B lists annual radioactive release data from these emission sources, grouped by nuclide and area. Summary C provides yearly totals of radioactive releases by radionuclide, under the headings "Atmospheric", "Liquid to Streams", or "Liquid to Seepage Basins" accordingly. Monthly radioactive releases from each emission source from 1986 to 1988 are found in Summary D. Where appropriate, headings in the summary tables have been changed to clarify and simplify emission data (see Appendix B). Additionally, any new discharge points, such as the liquid discharge from the Effluent Treatment Facility (ETF), are included in this report. A listing of 1988 source term and onsite discharge designations is provided in Appendix C.

Introduction

The Savannah River Site (SRS) is a U.S. Department of Energy (DOE) facility operated by the Westinghouse Savannah River Company (WSRC). The site's primary mission is the production of nuclear material in support of the nation's defense and security interests. As part of this mission, major production facilities, including five nuclear reactors, a fuel and target fabrication plant, a naval fuel materials facility, two chemical separations plants, a heavy water production plant, and the Savannah River Laboratory, have operated at some point during the Site's history.

This report provides a summary of effluent data collected over the history of operations at the Site, with emphasis on data collected 1986 through 1988. A comprehensive evaluation of the release data gathered from 1954 to 1985 was previously published in the public document, *Releases of Radioactivity at the Savannah River Plant*, DPSPU-86-25-1 [see Zeigler, et al. 1988]. Data covering the years 1954 through 1985 are provided in this document for convenient reference.

Release results contained in this report are compiled from liquid and air monitoring results gathered from both routine and special monitoring at effluent sampling locations by the Environmental Monitoring Section (EMS) of the Environmental and Health Protection (EHP) Department. These effluent samples supplement a monitoring program designed to provide a representative picture of the environment in and around the SRS.

To comply with DOE order 5400.1, EMS annually submits the appropriate data contained in this report to the Effluent Information and Onsite Discharge Information (EIS/ODIS) Management System, a DOE-wide database maintained at the Idaho National Engineering Laboratory. The EIS/ODIS database systems aid DOE-Headquarters and Field Offices in managing the radioactive air and liquid effluents from DOE facilities.

HISTORICAL PERSPECTIVE

Effluent monitoring at SRS continually develops and expands through improvements in sampling techniques, radiochemistry, and radiological analyses.

Due to such technological advances, the program can now measure very small quantities of specific radionuclides released from a variety of emission sources. The data contained in this document reflect the evolution of Site monitoring from the early 1950s to the late 1980s.

The 1950s

Analyses in the early years of production at SRS focused on counting samples for total (gross) alpha and beta-gamma emitters. Periodically, the radiochemical separation of selected samples was used to determine quantities of a specific radionuclide of interest. Tritium and radioiodine measurements were also taken using the latest available technology. In response to a request made by the Atomic Energy Commission (AEC) in 1974, specific long-lived radionuclides (half-lives greater than one year) were determined for the period 1954-1959 for inclusion in the releases report. Using internal reports and isotopic distributions determined in the early 1960s, releases of the long-lived radionuclides tritium, ^{60}Co , ^{90}Sr , ^{106}Ru , ^{137}Cs , and ^{147}Pm were quantified.

The 1960s and 1970s

During the 1960s and 1970s, the development and use of increasingly sophisticated counting instrumentation allowed for the routine detection of radionuclides at lower levels. Because many effluent samples are low in radioactivity, such advancements corresponded to the increased detail in reported results as reflected in this report. Automation of counting equipment and the use of computers for data reduction also contributed to more specific radionuclide analyses and an expanded sampling program.

The 1980s

Today, the effluent monitoring practices at the Savannah River Site support one of the most extensive environmental programs in the United States. Minor and major effluents and onsite discharges are routinely monitored for the presence of a wide range of radionuclides. All radioactivity source monitoring activities employ the latest technology and technical expertise.

SPECIFIC RADIOLOGICAL ANALYSES

Tritium

As in previous editions of this report, atmospheric tritium releases from F and H Area are combined to avoid security classification (individual facility releases are classified "Secret Restricted Data"). Prior to 1981, F- and H-Area seepage basin liquid tritium releases were combined to conform to reporting practices used in source documents. Individual releases of tritium to the seepage basins are now reported.

Liquid tritium releases from the C- and K-Area heat exchangers and process sewers are considered direct to streams with C Reactor releasing to Four Mile Creek and K Reactor releasing to Pen Branch. Liquid tritium releases from the P-Area heat exchangers and process sewer are divided into two categories. All tritium released from P Reactor to Par Pond is totaled under "Liquid to Seepage Basins". Tritium measured in Lower Three Runs Creek at Road B (Par Pond overflow) is totaled under "Liquid to Streams". Similarly, liquid tritium releases from the L-Area heat exchangers and process sewer to L Lake are totaled under "Liquid to Seepage Basins". Tritium measured at Steel Creek at Road A (L-Lake overflow) is totaled under "Liquid to Streams".

Tritium assumed to evaporate from onsite seepage basins is reported in this document because the data are included in the Site's yearly offsite dose determination [see Davis, et al, 1989]. This calculation is based on experimental data which indicate that approximately 30% of the tritium released to a seepage basin evaporates.

Noble Gases

Releases of ^{85}Kr , $^{131\text{M}}\text{Xe}$, and ^{135}Xe from the Separations radiochemical reprocessing facilities stacks are calculated based on the irradiation history and decay time of the fuel being processed, providing a conservative and acceptable alternative to monitoring multiple release pathways. Releases from F and H Areas are combined because releases from individual facilities are classified "Secret Restricted Data". All annual releases of ^{85}Kr from the Separations Area during 1960 to 1970 continue to be classified and are not included in this report.

Release values for ^{41}Ar and noble gases from Reactor Area stacks were calculated prior to 1971. Since that time, release values have been measured and reported.

Carbon-14

Releases of ^{14}C to the atmosphere from both the Separations and Reactor areas were calculated for the years 1955 through 1973 and tabulated by facility on a prorated annual basis. Releases since 1973 have been calculated annually.

Iodine-129

Atmospheric ^{129}I releases from the Separations Areas were calculated for 1955 through 1973 and reported on a prorated annual basis. Releases between 1973 and 1983 were calculated annually. Releases since 1983 have been measured routinely.

ADDITIONAL RADIOLOGICAL MONITORING

Migration of Radioactivity from Seepage Basins

SRS has measured the migration of tritium from seepage basins in H Area since 1958 and in F Area since 1967. The migration of strontium from both the F- and H-Area seepage basins to Four Mile Creek has been measured since 1968. The source of the majority of tritium migrating from a Reactor Area seepage basin is the migration of tritium from the K-Area containment basin to Pen Branch. SRS has measured this migration since 1966. Beginning in 1985, a small amount of tritium migration from the P-Area seepage basin was measured after essentially all tritium-bearing effluents were diverted to Par Pond. This migration is measured in Steel Creek at Road B upstream from L Lake. Small quantities of ^{137}Cs and ^{90}Sr measured at these sampling stations are also included in this report.

Desorption of Cesium-137 in Four Mile Creek

Due to previous releases of ^{137}Cs adsorbed by sediments in Four Mile Creek, an amount of ^{137}Cs greater than what is directly released is routinely measured in transport. The quantity of ^{137}Cs in transport in Four Mile Creek at Road A-7 greater than the quantity released is listed as "Desorption from Four Mile Creek Bed".

Seepage Basin Closure

In November 1988, the F- and H-Area seepage basins were closed in compliance with the Resource Conservation and Recovery Act (RCRA). The Effluent Treatment Facility (ETF) now handles wastewater from the Separations Areas before discharging treated water to Upper Three Runs Creek. This document

reports monitoring results of the ETF effluent samples collected at the conclusion of 1988.

HANDLING OF DATA

The data included in this report are stored in various data bases on an IBM mainframe computer. Exponential notation is used when reporting release values to ensure that the wide range of data remains in a consistent format. The accuracy of the reported value is not always implied by the number of significant digits reported. Because the data will be used for a variety of purposes, including future cumulative summaries, rounding of release values are avoided. Any further reduction of the data contained in this report, either by numerical or graphical summaries, is performed at the user's discretion.

CONSISTENCY OF DATA WITH OTHER PUBLISHED REPORTS

Total radionuclide releases from all monitored sources have been included in public reports since 1973. The release values shown in the public reports were used as the source terms by the Savannah River Laboratory (SRL) to calculate offsite concentrations and doses. Any inconsistencies in data gathered from 1954 through 1985, both with the public reports and data published in the "Final Environmental Impact Statement, Waste Management Operations, Savannah River Plant, Aiken, SC" (ERDA 1537), have been resolved and referenced in "Releases of Radioactivity at the Savannah River Plant", DPSPU-86-25-1 [see Zeigler, et al. 1988].

SUMMARY A: SRS RADIOACTIVE RELEASES, 1954-1988 (VOLUMES OF AIR AND WATER RELEASED)

Annual volumes of gaseous and liquid effluents are listed for each emission source since plant startup. The categories are designated by area.

SUMMARY B: SRS RADIOACTIVE RELEASES, 1954-1988 (BY NUCLIDE)

Data in this section are arranged in the following sequence:

1. Radionuclide in ascending order of mass number (e.g., H-3, C-14, P-32, etc.).
2. Emission sources generally in alphabetical order (e.g., A, C, D (Area), etc.).

The "Decay Corrected" columns contain the cumulative decay-corrected total through the year, based on the isotopic half life (see Appendix D). "Decay Corrected" values are associated with total releases up to the year listed. Decay values are independent of yearly releases.

When two or more radionuclides are combined (e.g., Co-58,60) or radionuclides are unidentified (e.g., Un I.D.Alpha), the calculated decay is based on the radionuclide with the longest half-life. Both "Un I.D.Alpha" (unidentified alpha) and "Un I.D.Beta+Gamma" (unidentified beta plus gamma) conservatively use the half-life associated with U-235 (7.038E08 years). The designation "U-Nat" (natural uranium) represents U-235,238.

SUMMARY C: SRS TOTAL RADIOACTIVE RELEASES (BY YEAR)

This section contains a 1954 through 1988 Site summary of total releases by radionuclide and the individual contributions to this total for each year since plant startup. Tables are arranged in the following categories:

- Liquid to Seepage Basins
- Liquid to Streams
- Atmospheric

SUMMARY D: MONTHLY RADIOACTIVE RELEASES FROM EACH EMISSION SOURCE, 1986-1988

Tables in this section contain monthly releases from monitored emission sources. They are arranged to correspond to the ordering of locations in Summaries A and B.

APPENDICES

Appendix A: Map of Effluent Pathways at the Savannah River Site

Appendix B: Changes in Data Table Headings

Appendix C: Descriptions of 1988 Source Terms and Onsite Discharges

Appendix D: Half-lives of Reported Radionuclides

References

The references listed below are internal SRS or SRL documents that were published at the Savannah River Site, Aiken, SC. The designations after the document number indicates the following:

- "Del" indicates a "Deleted" version of the report in which secret information has been removed.
- "Secret" indicates that the document has a security classification of secret.
- No designation indicates that the original document was unclassified.

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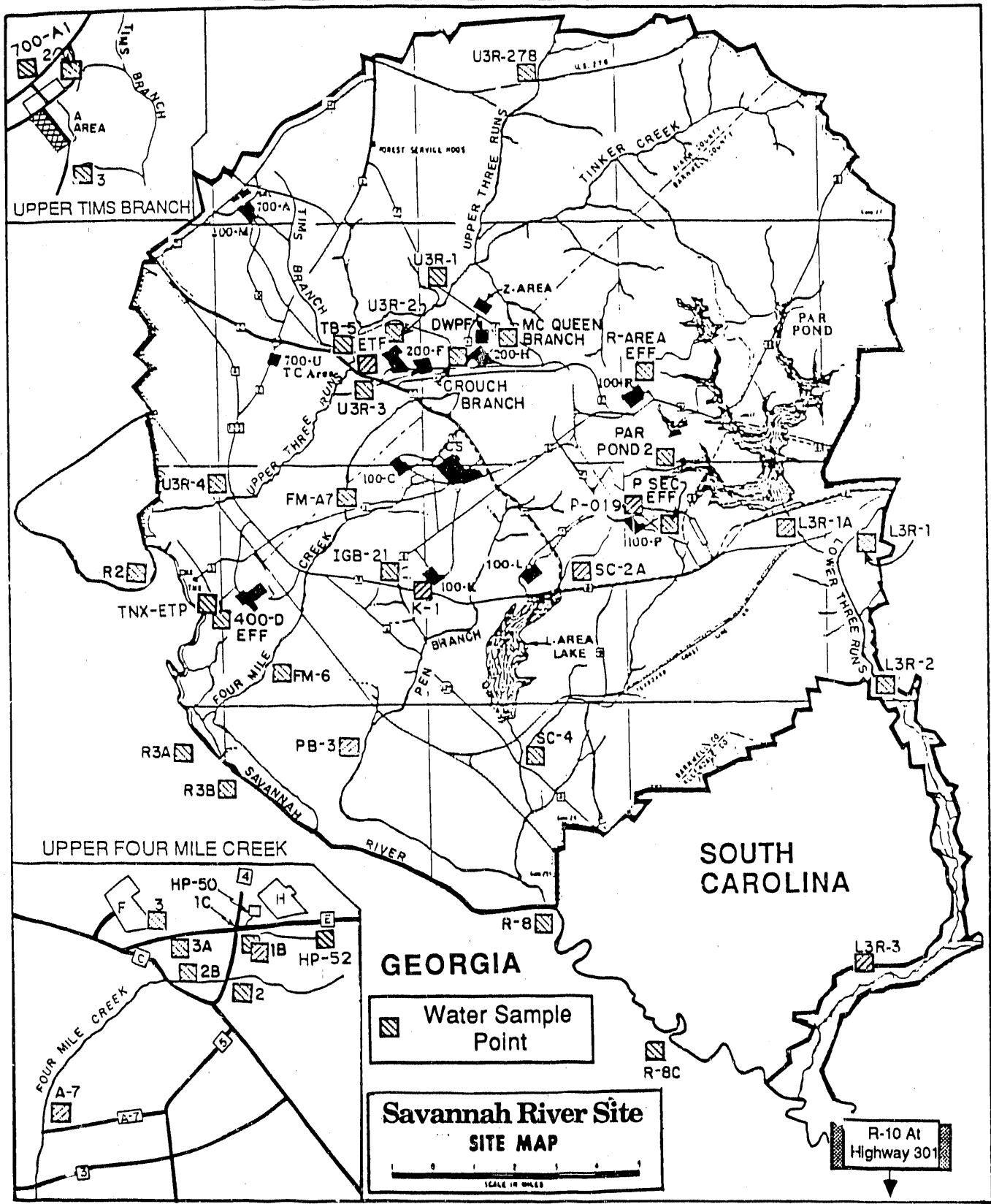
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Me58 Mealing, H.G., Harvey, R.S. and Horton, J.H., 1958, *Health Physics Regional Monitoring, Semiannual Report, July through December 1957*, DPSP 58-25-17 (Del).

Appendix A: Map of Effluent Pathways at the SRS



Appendix B:

Changes in Data Table Headings:

<u>Data Table Headings 1954-1988 Edition</u>	<u>Data Table Headings 1954-1985 Edition</u>	<u>Category</u>
Technical / A Area Liquid to Stream	A 773 Liquid to Streams	Liquid to Streams
Technical / A Area Atmospheric	A 773 Atmospheric	Atmospheric
Technical / A Area Liquid to Seepage Basins	A 776 Liquid to Seepage Basins.	Liquid to Seepage Basins
Reactor / C Area Atmospheric	C 105 Atmospheric	Atmospheric
Reactor / C Area Liquid to Stream	C Liquid to Streams	Liquid to Streams
Reactor / C Area Purges to Seepage Basins	C 66G Liquid to Seepage Basins	Liquid to Seepage Basins
D Area Liquid to Stream	D 400 Liquid to Streams	Liquid to Streams
D Area Atmospheric	D 400 Atmospheric	Atmospheric
Separations / F Area Atmospheric	F 291 Atmospheric	Atmospheric
Separations / F Area Liquid to Stream	F 281 Liquid to Streams	Liquid to Streams
Separations / F Area Liquid to Seepage Basins	F 47G Liquid to Seepage Basins	Liquid to Seepage Basins
Separations / F Area Migration Seepage Basins to Stream	F-Measured Migration from Seepage Basins to Stream	Liquid to Streams
Separations / Combined F&H Area Atmospheric	Combined F and H Atmospheric	Atmospheric
Separations / Combined F&H Area Liquid to Seepage Basins	Combined F and H Liquid to Seepage Basins	Liquid to Seepage Basins
Separations / H Area Atmospheric	H 291 Atmospheric	Atmospheric

**Data Table Headings
1954-1988 Edition**

**Data Table Headings
1954-1985 Edition**

Category

Separations / H Area Liquid to Stream	H 281 Liquid to Streams	Liquid to Streams
Separations / H Area Liquid to Seepage Basins	H 48G Liquid to Seepage Basins	Liquid to Seepage Basins
Separations / H Area Migration Seepage Basins to Stream	H-Measured Migration from Seepage Basins	Liquid to Streams
Separations / Desorption Four Mile Creekbed to Stream	H-Desorption from Four Mile Creek Streambed	Liquid to Stream
Separations / ETF Liquid to Stream	Not Applicable	Liquid to Stream
Reactor / K Area Atmospheric	K 105 Atmospheric	Atmospheric
Reactor / K Area Liquid to Stream	K Liquid to Streams	Liquid to Streams
Reactor / K Area Purges to Seepage Basins	K 65G Liquid to Seepage Basins	Liquid to Seepage Basins
Reactor / K Area Purges to Containment Basin	K 88G Liquid to Containment Basin	Liquid to Seepage Basins
Reactor / K Area Migration Seepage Basins to Stream	K-Measured Migration from Seepage Basins to Stream	Liquid to Streams
Reactor / L Area Atmospheric	L 105 Atmospheric	Atmospheric
Reactor / L Area Liquid to Stream	L Liquid to Streams	Liquid to Streams
Reactor / L Area Purges to Seepage Basins	L 64G Liquid to Seepage Basins	Liquid to Seepage Basins
Reactor / L Area Purges to Seepage Basins	L Oil and Chemical Basin Liquid to Seepage Basins	Liquid to Seepage Basins
Reactor / L Area Liquid to L Lake	Not Applicable	Liquid to Seepage Basins
Reactor / L Area L-Lake Overflow to Stream	Not Applicable	Liquid to Streams
Raw Materials / M Area Liquid to Seepage Basins	M 300 Liquid to Seepage Basins	Liquid to Seepage Basins

**Data Table Headings
1954-1988 Edition**

**Data Table Headings
1954-1985 Edition**

Category

Raw Materials / M Area
Atmospheric

M 300
Atmospheric

Atmospheric

Raw Materials / M Area
Liquid to Stream

M 313
Liquid to Streams

Liquid to Streams

Reactor / P Area
Atmospheric

P 105
Atmospheric

Atmospheric

Reactor / P Area
Liquid to Stream

P Effluent to
Steel Creek

Liquid to Streams

Reactor / P Area
Purges to Seepage Basins

P 61G
Liquid to Seepage Basins

Liquid to Seepage Basins

Reactor / P Area Migration
Seepage Basins to Stream

Not Applicable

Liquid to Streams

Reactor / P Area
Par Pond Overflow to Stream

Par Pond Overflow to
Lower Three Runs Creek

Liquid to Streams

Reactor / P Area
Liquid to Par Pond

P Area Liquid to
Par Pond

Liquid to Seepage Basins

CMX-TNX
Liquid to Seepage Basins

CMX-TNX
Liquid to Seepage Basins

Liquid to Seepage Basins

CMX-TNX
Atmospheric

CMX-TNX
Atmospheric

Atmospheric

Reactor / R Area
Atmospheric

R 105
Atmospheric

Atmospheric

Reactor / R Area
Liquid to Stream

R
Liquid to Streams

Liquid to Streams

Reactor / R Area
Purges to Seepage Basins

R 60G
Liquid to Seepage Basins

Liquid to Seepage Basins

Central Shops
Liquid to Seepage Basins

Central Shops (Ford Building)
Liquid to Seepage Basins

Liquid to Seepage Basins

Appendix C: Descriptions of 1988 Source Terms and Onsite Discharges

Abbreviations:

TB Tims Branch
FM Four Mile Creek
U3R Upper Three Runs Creek
IGB Indian Grave Branch
L3R Lower Three Runs
SC Steel Creek

Heading

Environmental Sample

Technical/A Area
Liquid to Stream

TB2 (A-Area Effluent)

Technical/A Area
Atmospheric

773-A Sandfilter Discharge
773-A B Stack
773-A C Stack
776-A Stack

Reactor/C Area
Atmospheric

C-Area Main Stack
C-Area Disassembly Stack
C-Area Decon Facility Stack

Reactor/C Area
Liquid to Stream

C-Area Process Sewer

D Area
Liquid to Stream

D-Area Process Sewer

D Area
Atmospheric

772 D
420 D
421-2D

Separations/F Area
Atmospheric

200-F Stacks
772-F Stack
772-1F Stack
235-F Sandfilter Discharge
800 Cell Stack (211-F)
A-Line F Stack (291-2F)
247-F Naval Fuel Stacks

Separations/F Area
Liquid to Stream

FM3 (F-Area Effluent)

Heading**Environmental Sample**

Separations/F Area
Liquid to Seepage Basins

F-Area Seepage Basins

Separations/F-Area Migration
Seepage Basins to Stream

FMA7 - (FM3A + FM2B)

Separations/Combined F & H Area
Atmospheric

Secret Documents

Separations/Combined F & H Area
Liquid to Seepage Basins

F- & H-Area Seepage Basins

Separations/H Area
Atmospheric

200-H Stack
230-H Incinerator Stack
244-H Ruboff Stacks
253-H Waste Compactor Stack
F- & H-Area Waste Tanks Exhaust

Separations/H Area
Liquid to Stream

FM 1C (H-Area Effluent)

Separations/H Area
Liquid to Seepage Basins

H-Area Seepage Basin

Separations/H-Area Migration
Seepage Basins to Stream

FM2B - FM1C

Separations/Desorption
Four Mile Creek Bed to Stream

FMA7 - (FM1B + FM1C + FM3)

Separations/ETF
Liquid to Stream

U3R2A

Reactor/K Area
Atmospheric

K-Area Main Stack
K-Area Disassembly Stack

Reactor/K Area
Liquid to Stream

K-Area Process Sewer
K-Area Heat Exchanger Cooling Water

Reactor/K Area
Purges to Containment Basin

K-Area Purges to Basin 904-88G

Reactor/K-Area Migration
Seepage Basins to Stream

IGB21

Reactor/L Area
Atmospheric

L-Area Main Stack
L-Area Disassembly Stack

Reactor/L Area
Purges to Seepage Basins

L-Area Purges to Basin 904-64G

Reactor/L Area
Liquid to L Lake

L-Area Process Sewer
L-Area Heat Exchanger Cooling Water

Heading**Environmental Sample**

Reactor/L Area
Liquid to Stream

SC4

Raw Materials/M Area
Atmospheric

313 M
321 M
322 M

Raw Materials/M Area
Liquid to Stream

TB3 (M-Area Effluent)

Reactor/P Area
Atmospheric

P-Area Main Stack
P-Area Disassembly Stack

Reactor/P Area
Purges to Seepage Basins

Purges to Basin 904-61G

Reactor/P Area Migration
Seepage Basins to Stream

SC2A

Reactor/P Area
Par Pond Overflow to Stream

L3R2

Reactor/P Area
Liquid to Par Pond

P-Area Process Sewer
P-Area Heat Exchanger Cooling Water

TNX Area
Liquid to Seepage Basins

CMX-TNX Seepage Basin

Appendix D: Half-lives of Reported Radionuclides

<u>Isotope</u>	<u>Half-life</u>	<u>Isotope</u>	<u>Half-life</u>
H-3	12.28 y	I-129	1.57E+07 y
C-14	5730 y	I-131	8.040 d
P-32	14.29 d	I-133	20.8 h
S-35	87.44 d	Xe-131m	11.84 d
Ar-41	1.827 h	Xe-133	5.245 d
Cr-51	27.704 d	Xe-135	9.11 h
Mn-54	312.7 d	Cs-134	2.062 y
Co-58	70.80 d	Cs-137	30.17 y
Co-60	5.271 y	Ba-140	12.789 d
Zn-65	244.4 d	La-140	40.22 h
Se-75	119.78 d	Ce-141	32.50 d
Br-82	35.30 h	Ce-144	284.3 d
Kr-85	10.72 y	Pm-147	2.6234 y
Kr-85m	4.48 h	Os-185	93.6 d
Kr-87	76.3 m	Th-232	1.405E+10 y
Kr-88	2.84 h	U-Nat	
Sr-89	50.55 d	U-234	2.445E+05 y
Sr-90	28.6 y	U-235	7.038E+08 y
Y-91	58.51 d	U-238	4.468E+09 y
Zr-95	64.02 d	Pu-238	87.75 y
Nb-95	35.06 d	Pu-239	24131 y
Mo-99	66.02 d	Np-239	2.355 d
Ru-103	39.35 d	Am-241	432.2 y
Ru-106	368.2 d	Cm-242	163.2 d
Sb-124	60.20 d	Cm-244	18.11 y
Sb-125	2.77 y		

Source: Kocher, D.C. "Radioactive Decay Tables", DOE/TIC-11026 Oak Ridge National Laboratory, 1981.

Footnote: d=day, y=year, m=month, h=hour

Summary A Data Tables:

***SRS Radioactive Releases
1954-1988 (Volume of Air and
Water Released)***

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Technical A Area <u>Liquid to Stream</u>	Technical A Area <u>Atmospheric</u>	Technical A Area <u>Liquid to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			1.2300E+08
1955			4.5150E+07
1956			2.6060E+06
1957			8.8660E+06
1958		3.3600E+09	4.9210E+06
1959		3.3600E+09	5.6780E+06
1960		3.3600E+09	5.6780E+06
1961		3.3600E+09	3.4060E+06
1962		3.3600E+09	3.0280E+06
1963		3.3600E+09	3.0280E+06
1964		3.3600E+09	3.7850E+06
1965		3.3600E+09	2.8370E+06
1966		3.3600E+09	8.3300E+06
1967		3.3600E+09	7.8060E+06
1968		3.3600E+09	6.6320E+06
1969	3.9520E+08	3.3600E+09	7.5700E+06
1970	3.9520E+08	3.3600E+09	7.9480E+06
1971	3.8310E+08	3.3640E+09	6.9230E+06
1972	2.3900E+08	3.3600E+09	6.7390E+06
1973	3.9520E+08	3.3600E+09	7.2510E+06
1974	3.9520E+08	3.3600E+09	4.8740E+06
1975	3.9760E+08	3.2560E+09	4.5350E+06
1976	3.9760E+08	3.2560E+09	4.6330E+06
1977	4.3080E+08	3.2560E+09	4.9670E+06
1978	3.9760E+08	3.5280E+09	3.1100E+06
1979	3.9760E+08	3.2560E+09	3.1280E+06
1980	3.9760E+08	3.2560E+09	3.6230E+06
1981	3.9760E+08	3.2560E+09	2.3350E+06
1982	3.9760E+08	3.2560E+09	1.0600E+06
1983	3.9760E+08	3.2560E+09	
1984	3.9760E+08	3.2560E+09	
1985	1.9330E+08	3.2560E+09	
1986	3.5080E+08	3.2560E+09	
1987	7.7970E+08	3.2560E+09	
1988	4.9040E+08	2.9850E+09	
TOTAL	8.0263E+09	1.0271E+11	3.0345E+08

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	<u>Reactor C Area Atmospheric</u>	<u>Reactor C Area Liquid to Stream</u>	<u>Reactor C Area Purges to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955	3.7200E+09	3.9780E+09	
1956	3.7200E+09	3.1830E+09	
1957	3.7200E+09	2.4870E+09	
1958	3.7200E+09	2.6860E+09	
1959	3.7200E+09	2.9840E+09	7.5700E+05
1960	3.7200E+09	3.0250E+09	3.0000E+05
1961	3.7200E+09	2.1890E+09	1.1350E+06
1962	3.7200E+09	2.3280E+09	8.5000E+05
1963	4.6110E+09	2.7230E+09	6.3700E+05
1964	4.6110E+09	2.7910E+09	8.0300E+05
1965	1.6320E+09	3.0540E+09	1.0640E+06
1966	1.6300E+09	2.6680E+09	5.1600E+05
1967	1.6300E+09	2.8770E+09	1.0100E+05
1968	1.6300E+09	1.8540E+09	9.1980E+04
1969	1.6300E+09	1.5880E+09	1.9080E+06
1970	1.6230E+09	1.7030E+09	2.0800E+04
1971	1.2400E+09	1.6090E+09	
1972	1.2400E+09	4.0640E+09	
1973	1.2400E+09	6.9010E+09	
1974	1.2040E+09	5.4430E+09	
1975	2.2000E+09	5.7000E+09	
1976	2.7000E+09	6.1000E+09	
1977	3.3420E+09	7.2080E+09	
1978	2.5310E+09	2.3170E+11	1.4480E+06
1979	3.7370E+09	2.3790E+11	1.4900E+07
1980	2.8530E+09	2.6840E+11	9.2760E+06
1981	2.5010E+09	2.9110E+11	1.8940E+07
1982	2.3940E+09	2.6990E+11	1.5880E+07
1983	1.9480E+09	3.3650E+11	1.5990E+07
1984	1.9630E+09	2.9580E-11	3.4970E+06
1985	2.7980E+09	2.0270E+11	1.3850E+07
1986	4.3800E+09	2.0010E+11	7.1070E+05
1987	3.7200E+09	4.2810E+10	
1988	2.3380E+09	5.0790E+09	
TOTAL	9.3086E+10	2.1653E+12	1.0268E+08

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	<u>D Area</u> <u>Liquid to Stream</u>	<u>D Area</u> <u>Atmospheric</u>	<u>Separations</u> <u>F Area</u> <u>Atmospheric</u>
	<u>Original</u> <u>Release</u>	<u>Original</u> <u>Release</u>	<u>Original</u> <u>Release</u>
1954			
1955			3.3330E+09
1956			3.3330E+09
1957			3.3330E+09
1958			3.3330E+09
1959			3.3330E+09
1960			3.3330E+09
1961			3.3330E+09
1962			3.3330E+09
1963			3.2450E+09
1964	1.0070E+08		3.2430E+09
1965	1.0820E+07		3.2430E+09
1966	1.0070E+08		3.2430E+09
1967	1.2780E+07		3.2430E+09
1968	1.0960E+07		3.2430E+09
1969	1.0220E+07		3.2430E+09
1970	6.0000E+03		3.2430E+09
1971	6.2610E+06		3.1460E+09
1972	6.4810E+06	3.1530E+08	3.1460E+09
1973	6.7030E+06	3.1530E+08	3.4670E+09
1974	6.8700E+06	3.1530E+08	3.4670E+09
1975	6.3000E+06	3.1000E+08	3.0000E+09
1976	6.1000E+06	3.1000E+08	3.2000E+09
1977	6.0000E+06	3.1000E+08	3.7000E+09
1978	5.9000E+06	3.1000E+08	3.7190E+09
1979	6.1000E+06	3.1000E+08	4.0000E+09
1980	6.0000E+06	3.1000E+08	4.2000E+09
1981	6.1980E+06	3.1780E+08	4.2550E+09
1982	5.8160E+06	4.2000E+08	6.1550E+09
1983	4.3380E+09	3.1780E+08	4.4470E+09
1984	6.6000E+06	3.1000E+08	3.2000E+09
1985	6.3000E+06	3.1000E+08	3.8000E+09
1986	2.3570E+09	3.1780E+08	5.9500E+09
1987	3.3840E+09	3.1780E+08	8.2670E+09
1988	2.6450E+09	3.1780E+08	9.6090E+09
TOTAL	1.3058E+10	5.4349E+09	1.3334E+11

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Separations F Area <u>Liquid to Stream</u>	Separations F Area <u>Liquid to Seepage Basins</u>	Separations F-Area Migration <u>Seepage Basins to Stream</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954	1.4270E+09		
1955	2.3000E+09	4.8350E+07	
1956	2.3000E+09	9.6710E+07	
1957	2.3000E+09	5.5400E+07	
1958	2.3000E+09	3.7850E+07	
1959	2.3000E+09	7.0780E+07	
1960	2.3000E+09	1.4540E+08	
1961	2.3000E+09	8.7050E+07	
1962	2.3000E+09	1.7380E+08	
1963	2.3000E+09	1.5030E+08	
1964	2.3000E+09	2.1000E+08	
1965	2.3000E+09	1.0590E+08	
1966	2.3000E+09	1.1130E+08	
1967	2.7400E+09	1.1670E+08	1.4000E+10
1968	2.3000E+09	1.2640E+08	1.4000E+10
1969	2.7400E+09	1.9490E+08	1.2000E+10
1970	2.7400E+09	1.9080E+08	1.2000E+10
1971	3.1420E+09	1.2280E+08	1.7000E+10
1972	2.4900E+09	1.5270E+08	1.4000E+10
1973	2.5960E+09	2.0800E+08	1.7000E+10
1974	2.1450E+09	1.3070E+08	1.1000E+10
1975	2.1000E+09	7.8750E+07	1.2000E+10
1976	1.9000E+09	1.6790E+08	1.2000E+10
1977	2.2560E+09	1.4650E+08	1.4420E+10
1978	2.0420E+09	1.5450E+08	1.4000E+10
1979	2.2000E+09	1.9100E+08	1.8360E+10
1980	2.1000E+09	1.9340E+08	1.6010E+10
1981	2.0660E+09	2.7080E+08	1.1280E+10
1982	2.6820E+09	1.2680E+08	1.5580E+10
1983	2.6330E+09	7.3720E+07	1.8550E+10
1984	3.5000E+09	1.1670E+08	2.1000E+10
1985	2.5000E+09	1.4990E+08	1.1000E+10
1986	2.5110E+09	1.6350E+08	1.2000E+10
1987	2.1100E+09	2.6720E+09	1.5100E+10
1988	2.3910E+09	7.6560E+07	1.0300E+10
TOTAL	8.2911E+10	7.1179E+09	3.1260E+11

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	<u>Separations Combined F & H Area Atmospheric</u>	<u>Separations Combined F & H Area Liquid to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>
1954		
1955	8.0950E+09	
1956	8.0940E+09	
1957	8.0950E+09	1.9080E+08
1958	1.1830E+10	1.0790E+08
1959	1.0640E+10	1.2530E+08
1960	1.6820E+10	1.9830E+08
1961	1.6820E+10	1.4910E+08
1962	1.6820E+10	2.8950E+08
1963	1.6720E+10	2.7140E+08
1964	1.6720E+10	4.4890E+08
1965	1.6720E+10	5.0810E+08
1966	1.6720E+10	3.1720E+08
1967	1.6720E+10	3.1300E+08
1968	1.6720E+10	3.5280E+08
1969	1.6720E+10	4.6860E+08
1970	1.6570E+10	4.9660E+08
1971	1.3280E+10	3.9270E+08
1972	1.6400E+10	3.9270E+08
1973	1.6980E+10	4.2290E+08
1974	1.6980E+10	3.2900E+08
1975	1.6070E+10	2.3020E+08
1976	1.6270E+10	2.4740E+08
1977	1.6870E+10	2.0150E+08
1978	1.6960E+10	2.8530E+08
1979	1.7270E+10	3.4330E+08
1980	1.7370E+10	3.5930E+08
1981	1.7490E+10	4.3700E+08
1982	1.6210E+10	2.8600E+08
1983	1.4800E+10	2.7370E+08
1984	1.3590E+10	3.2850E+08
1985	1.0410E+10	3.6040E+08
1986	1.7300E+10	3.7580E+08
1987	1.2000E+10	2.9680E+09
1988	1.4000E+10	2.4200E+08
TOTAL	5.1107E+11	1.2713E+10

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	<u>Separations H Area Atmospheric</u>	<u>Separations H Area Liquid to Stream</u>	<u>Separations H Area Liquid to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955	3.2140E+09	1.4270E+09	4.8350E+07
1956	3.2140E+09	1.4270E+09	1.3830E+08
1957	3.2140E+09	1.4270E+09	1.3540E+08
1958	3.2140E+09	1.4270E+09	7.0020E+07
1959	3.2140E+09	1.4270E+09	5.4500E+07
1960	3.2140E+09	1.4270E+09	5.2870E+07
1961	3.2140E+09	1.4270E+09	6.2070E+07
1962	3.2140E+09	1.4270E+09	1.1570E+08
1963	3.2050E+09	1.4270E+09	1.2110E+08
1964	3.2050E+09	2.3000E+09	2.3850E+08
1965	3.2050E+09	1.4270E+09	4.0210E+08
1966	3.2050E+09	1.4270E+09	2.0590E+08
1967	3.2050E+09	1.1000E+09	1.9630E+08
1968	3.2050E+09	1.4270E+09	2.2630E+08
1969	3.2050E+09	1.1000E+09	2.7370E+08
1970	3.2430E+09	1.1000E+09	3.0580E+08
1971	3.2510E+09	1.0900E+09	3.0070E+08
1972	3.2510E+09	1.1860E+09	2.4000E+08
1973	3.2430E+09	1.4270E+09	2.1490E+08
1974	3.2430E+09	1.1990E+09	1.9830E+08
1975	2.8000E+09	1.1000E+09	1.5150E+08
1976	2.8000E+09	1.4000E+09	7.9470E+07
1977	2.9000E+09	1.2610E+09	7.7870E+07
1978	2.9680E+09	1.0630E+09	1.3080E+08
1979	3.0000E+09	1.3000E+09	1.5230E+08
1980	2.9000E+09	1.4000E+09	1.6590E+08
1981	2.9680E+09	1.2230E+09	1.6620E+08
1982	2.8540E+09	1.1970E+09	1.5920E+08
1983	2.9390E+09	1.0390E+09	2.0000E+08
1984	3.0000E+09	1.2000E+09	2.1180E+08
1985	2.5000E+09	9.7000E+08	2.1050E+08
1986	3.3690E+09	9.8610E+08	2.1230E+08
1987	4.3900E+09	1.3460E+09	2.9640E+08
1988	4.5700E+09	8.3130E+08	1.6540E+08
TOTAL	1.0834E+11	4.3942E+10	5.9804E+09

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Separations H-Area Migration <u>Seepage Basins to Stream</u>	Separations Desorption <u>Four Mile Creek Bed to Stream</u>	Separations ETF <u>Liquid to Stream</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955			
1956			
1957			
1958	7.6000E+09		
1959	7.6000E+09		
1960	7.6000E+09		
1961	7.6000E+09		
1962	7.6000E+09		
1963	7.6000E+09		
1964	7.6000E+09		
1965	7.6000E+09		
1966	7.6000E+09		
1967	7.6000E+09	1.4000E+10	
1968	7.2000E+09	1.4000E+10	
1969	7.4000E+09	1.2000E+10	
1970	7.4000E+09	1.2000E+10	
1971	9.3000E+09	1.7000E+10	
1972	7.2000E+09	1.4000E+10	
1973	9.3000E+09	1.7000E+10	
1974	6.2000E+09	1.1000E+10	
1975	7.4000E+09	1.2000E+10	
1976	7.0000E+09	1.1000E+10	
1977	1.4420E+10	1.4420E+10	
1978	1.4000E+10	1.4000E+10	
1979	9.4600E+09	1.8360E+10	
1980	1.6010E+10	1.6010E+10	
1981	5.4840E+09	1.1280E+10	
1982	1.0440E+10	1.5580E+10	
1983	1.3000E+10	1.8550E+10	
1984	1.4000E+10	2.1000E+10	
1985	3.6000E+09	1.1000E+10	
1986	9.3000E+09	1.2000E+10	
1987	1.0090E+10	1.5100E+10	
1988	7.0100E+09	1.0300E+10	6.3040E+06
TOTAL	2.7121E+11	3.1160E+11	6.3040E+06

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor K Area <u>Atmospheric</u>	Reactor K Area <u>Liquid to Stream</u>	Reactor K Area <u>Purges to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955	4.6130E+09	3.9780E+09	
1956	4.6130E+09	3.1830E+09	
1957	4.6130E+09	2.4870E+09	
1958	4.6130E+09	2.6860E+09	
1959	4.6130E+09	2.9840E+09	7.5700E+05
1960	4.6130E+09	3.5980E+09	7.5700E+05
1961	4.6130E+09	3.1450E+09	
1962	4.6130E+09	2.9250E+09	
1963	3.3470E+09	3.4270E+09	
1964	3.3470E+09	3.4260E+09	
1965	1.6320E+09	4.7670E+09	1.8140E+08
1966	1.6320E+09	4.0800E+09	
1967	1.6320E+09	4.9250E+09	
1968	1.6320E+09	4.8840E+09	
1969	1.6320E+09	4.8610E+09	
1970	1.7870E+09	6.0680E+09	
1971	1.7570E+09	6.0220E+09	
1972	1.7570E+09	4.2780E+09	
1973	1.7570E+09	7.6610E+09	
1974	1.7570E+09	6.2760E+09	
1975	2.3000E+09	6.3000E+09	
1976	3.5000E+09	6.1000E+09	
1977	3.5310E+09	7.5000E+09	
1978	1.9860E+09	2.8710E+11	
1979	2.2990E+09	2.5290E+11	
1980	1.8860E+09	2.9430E+11	
1981	2.2080E+09	2.8350E+11	
1982	2.1120E+09	3.0570E+11	
1983	2.1450E+09	3.1330E+11	
1984	2.1150E+09	2.9080E+11	
1985	1.8550E+09	2.9740E+11	
1986	3.3390E+09	2.9720E+11	
1987	3.1830E+09	2.2080E+11	
1988	3.6920E+09	1.3600E+11	
TOTAL	9.6724E+10	3.0846E+12	1.8291E+08

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor K Area <u>Purges to Containment Basin</u>	Reactor K-Area Migration <u>Seepage Basins to Stream</u>	Reactor L Area <u>Atmospheric</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955			4.6130E+09
1956			4.6130E+09
1957			4.6130E+09
1958			4.6130E+09
1959			4.6130E+09
1960			4.6130E+09
1961			4.6130E+09
1962			4.6130E+09
1963			3.3470E+09
1964			3.3470E+09
1965			1.6320E+09
1966	4.5420E+08		1.6230E+09
1967	3.2000E+08		1.6320E+09
1968	2.3840E+08		1.6230E+09
1969	1.6700E+08	2.5000E+09	
1970	7.9110E+07	2.5000E+09	
1971	3.4220E+07	2.5000E+09	
1972	3.6320E+07	2.5000E+09	
1973	3.8350E+07	2.5000E+09	
1974	3.6120E+07	1.6000E+09	
1975	1.4000E+07	2.4000E+09	
1976	5.0000E+07	3.5000E+09	
1977	2.1160E+07	5.0500E+09	
1978	1.7800E+07	1.8000E+09	
1979	1.7260E+07	2.7400E+11	
1980	1.6820E+07	3.2100E+11	
1981	1.2280E+07	2.0860E+05	
1982	9.2590E+06	1.7450E+09	6.4000E+10
1983	6.5620E+06	1.5000E+09	7.4000E+08
1984	1.0610E+07	1.9000E+09	7.4000E+08
1985	2.7970E+07	1.5000E+09	1.7550E+08
1986	6.4440E+06	9.8980E+11	2.1620E+09
1987	5.7670E+06	6.7670E+08	3.3780E+09
1988	2.8760E+05	4.6300E+08	3.1750E+09
TOTAL	1.6199E+09	1.6194E+12	1.2448E+11

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor L Area <u>Liquid to Stream</u>	Reactor L Area <u>Purges to Seepage Basins</u>	Reactor L Area <u>Purges to Oil & Chemical Basin</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955	3.9780E+09		
1956	3.1830E+09		
1957	2.4870E+09		
1958	2.6860E+09	7.3430E+06	
1959	2.9840E+09	7.5700E+05	
1960	5.8140E+09	7.5700E+05	
1961	3.2460E+09	1.1360E+06	2.0000E+05
1962	2.8660E+09	8.5000E+05	1.4000E+05
1963	3.3680E+09	1.8530E+06	1.4370E+05
1964	3.5150E+09	7.5700E+05	9.6500E+05
1965	3.7200E+09	9.2000E+03	9.9200E+05
1966	3.9380E+09		5.5570E+05
1967	3.7030E+09	8.8910E+05	2.5400E+05
1968	3.1140E+09	3.3310E+05	2.8650E+05
1969	2.0800E+09	8.7100E+06	1.5990E+04
1970	7.2280E+08		5.2600E+04
1971			4.1790E+04
1972			8.8210E+04
1973			1.3330E+04
1974			
1975			3.8000E+04
1976			3.3000E+04
1977			9.0690E+04
1978			7.5700E+03
1979			7.6000E+03
1980			
1981	1.1920E+07		
1982	6.0580E+05		
1983	9.7830E+05		
1984	1.1190E+09		
1985	4.2820E+09	5.2690E+05	
1986		6.4180E+05	
1987		7.5930E+05	
1988		3.3990E+05	
TOTAL	5.6824E+10	2.5662E+07	3.9257E+06

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor L Area <u>Liquid to L Lake</u>	Reactor L Area <u>L-Lake Overflow to Stream</u>	Raw Materials M Area <u>Liquid to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955			
1956			
1957			
1958			
1959			
1960			
1961			
1962			
1963			
1964			
1965			
1966			
1967			
1968			
1969			
1970			
1971			
1972			
1973			
1974			2.0630E+06
1975			1.9000E+06
1976			3.2000E+06
1977			1.0810E+07
1978			3.3420E+07
1979			3.3880E+07
1980			3.2210E+07
1981			3.3140E+07
1982			3.8330E+08
1983			5.1150E+08
1984			1.9090E+08
1985			4.2840E+07
1986	1.8580E+11	1.9220E+14	
1987	2.0430E+11	2.3300E+11	
1988	1.8060E+11	2.1330E+11	
TOTAL	5.7070E+11	1.9265E+14	1.2792E+09

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Raw Materials M Area <u>Atmospheric</u>	Raw Materials M Area <u>Liquid to Stream</u>	Reactor P Area <u>Atmospheric</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955		1.3200E+08	3.5710E+09
1956		1.9920E+08	3.5710E+09
1957		2.7300E+08	3.5710E+09
1958		8.0000E+07	3.5710E+09
1959		9.8000E+07	3.5710E+09
1960		5.2000E+08	3.5710E+09
1961		7.5400E+08	3.5710E+09
1962		1.0400E+09	3.5710E+09
1963		9.1660E+08	2.0530E+09
1964		7.4880E+08	2.0530E+09
1965		7.8320E+08	1.6320E+09
1966		1.0190E+09	1.6300E+09
1967		1.1090E+09	1.6320E+09
1968		1.1350E+09	1.6320E+09
1969		7.2310E+08	1.6320E+09
1970		7.5890E+08	1.4850E+09
1971		5.8670E+08	1.3870E+09
1972		3.3630E+08	1.3870E+09
1973		1.7910E+08	1.3870E+09
1974	1.1190E+08	4.2570E+08	1.3870E+09
1975	1.3420E+09	4.8000E+08	2.7000E+09
1976	1.3400E+09	3.1000E+08	3.4000E+09
1977	1.3420E+09	2.0300E+08	3.7710E+09
1978	1.3420E+09	1.1850E+08	2.0160E+09
1979	1.3420E+09	1.5470E+08	2.2470E+09
1980	1.3420E+09	1.4810E+08	2.3060E+09
1981	1.3420E+09	1.5510E+08	2.5730E+09
1982	4.4990E+08	7.3750E+07	2.1640E+09
1983	4.4990E+08	4.1170E+08	2.0510E+09
1984	1.3420E+09	3.5010E+08	1.9350E+09
1985	1.3420E+09	1.4230E+08	2.3770E+09
1986	1.3420E+09	2.3580E+09	3.6590E+09
1987	1.3420E+09	1.6420E+09	3.3870E+09
1988	1.3420E+09	1.5180E+09	4.1820E+09
TOTAL	1.7114E+10	1.9883E+10	8.6633E+10

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor P Area <u>Liquid to Stream</u>	Reactor P Area <u>Purges to Seepage Basins</u>	Reactor P-Area Migration <u>Seepage Basins to Stream</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955	3.9780E+09		
1956	3.1830E+09		
1957	2.4870E+09	7.5700E+05	
1958	2.6860E+09	2.2710E+05	
1959	2.9840E+09	7.5700E+05	
1960	5.6080E+09	7.5700E+05	
1961	3.0550E+09	1.1360E+06	
1962	2.8440E+09	8.5000E+05	
1963	2.8900E+09	1.1360E+06	
1964	3.2520E+09	6.5800E+06	
1965	3.2030E+09	2.2250E+04	
1966	2.7980E+09	9.8400E+04	
1967	2.5570E+09	1.5330E+03	
1968	1.4680E+09	4.1520E+06	
1969	1.5990E+09		
1970	6.4030E+09	5.0200E+03	
1971	5.7920E+09		
1972	5.6240E+09		
1973	7.4880E+09		
1974	6.5760E+09		
1975	5.0000E+09		
1976	5.9000E+09		
1977	6.2240E+09		
1978	5.7890E+09	8.8800E+06	
1979	3.0320E+11	2.2910E+07	
1980	4.4000E+09	1.1960E+07	
1981	4.5000E+09	1.8460E+07	
1982	7.5000E+09	2.5620E+07	
1983	5.8000E+09	2.0020E+07	
1984	8.8000E+09	2.4680E+07	
1985	1.7000E+09	2.3650E+07	
1986		1.1690E+07	
1987		1.2610E+07	5.2790E+09
1988		1.5920E+05	1.5300E+09
TOTAL	4.3529E+11	1.9712E+08	6.8090E+09

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor P Area <u>Par Pond Overflow to Stream</u>	Reactor P Area <u>Liquid to Par Pond</u>	CMX-TNX <u>Liquid to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			
1955			
1956			
1957			
1958			
1959			
1960			
1961			
1962			
1963			
1964			
1965	1.1000E+09		
1966	1.1000E+09		
1967	1.1000E+09		
1968	1.1000E+09		2.1560E+08
1969	1.1000E+09		1.7900E+08
1970	1.1000E+09		
1971	1.1000E+09		
1972	1.1000E+09		
1973	1.1000E+09		
1974	1.1000E+09	3.0000E+11	
1975	1.1000E+09	3.0000E+11	
1976	1.1000E+09	3.0000E+11	
1977	1.1000E+09	3.0000E+11	
1978	1.1000E+09	3.0300E+11	1.2000E+06
1979	1.1000E+09	2.9700E+11	8.0000E+05
1980	1.1000E+09	2.7000E+11	2.0000E+05
1981	4.5000E+09	2.8000E+11	1.3670E+07
1982	1.1000E+09	3.1000E+11	9.5390E+06
1983	3.9000E+09	3.1280E+11	7.4830E+06
1984	6.8000E+09	3.2000E+11	6.8120E+06
1985	4.4900E+10	2.7510E+11	8.1730E+06
1986	7.5900E+13	2.5450E+11	8.1750E+06
1987	8.4080E+10	2.6840E+11	1.9680E+06
1988	5.7430E+10	1.6040E+11	1.1410E+06
TOTAL	7.6120E+13	4.2512E+12	4.5376E+08

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	<u>CMX-TNX Atmospheric</u>	<u>Reactor R Area Atmospheric</u>	<u>Reactor R Area Liquid to Stream</u>
	<u>Original Release</u>	<u>Original Release</u>	<u>Original Release</u>
1954			9.9470E+09
1955		4.3150E+09	3.9780E+09
1956		4.3150E+09	3.1830E+09
1957		4.3150E+09	3.1830E+09
1958		4.3150E+09	2.6860E+09
1959	2.2300E+08	4.3150E+09	2.9840E+09
1960	2.2300E+08	4.3150E+09	5.8800E+09
1961	2.2300E+08	4.3150E+09	3.4810E+09
1962	2.2300E+08	4.3150E+09	3.5050E+09
1963	2.2300E+08	2.5000E+09	3.1040E+09
1964	2.2300E+08	2.5000E+09	2.4550E+09
1965	2.2300E+08		
1966	2.2300E+08		
1967	2.2300E+08		
1968			
1969	2.2300E+08		
1970			
1971	2.2300E+08		
1972	2.2300E+08		
1973	2.2300E+08		
1974	2.2300E+08		
1975	7.4000E+06		
1976	7.4400E+06		
1977	7.4370E+06		
1978			
1979			
1980			
1981			
1982			
1983			
1984			
1985			
1986			
1987			
1988			
TOTAL	3.1443E+09	3.9520E+10	4.4386E+10

SRS RADIOACTIVE RELEASES 1954-1988

Liquid Volume in Liters, Atmospheric Volume in Cubic Meters

	Reactor R Area <u>Purges to Seepage Basins</u>	Central Shops <u>Liquid to Seepage Basins</u>
	<u>Original Release</u>	<u>Original Release</u>
1954		
1955		
1956		
1957	6.8130E+06	
1958	6.0150E+06	
1959	7.5700E+05	
1960	7.5700E+05	
1961	1.1360E+06	
1962	8.5000E+05	
1963	1.1360E+06	
1964	7.5700E+05	1.7390E+05
1965		5.1200E+05
1966		1.7390E+05
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		3.5900E+04
1980		1.7970E+05
1981		1.1340E+05
1982		1.1350E+05
1983		1.1750E+05
1984		2.2690E+04
1985		
1986		
1987		
1988		
TOTAL	1.8221E+07	1.4425E+06

Summary B Data Tables:

***SRS Radioactive Releases, 1954-1988
(By Nuclide)***

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	A Area Atmospheric		A Area Liquid to Seepage Basins		C Area Atmospheric	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955					7.0000E+02	6.8052E+02
1956					6.8000E+03	7.2539E+03
1957					1.2900E+04	1.9397E+04
1958					2.9500E+04	4.7011E+04
1959	6.2600E+03	6.0858E+03			5.2500E+04	9.5470E+04
1960	5.5000E+03	1.1099E+04			6.8900E+04	1.5721E+05
1961	2.6700E+03	1.3085E+04			3.9000E+04	1.8650E+05
1962	3.8200E+02	1.2738E+04			4.3600E+04	2.1865E+05
1963		1.2039E+04			6.9000E+04	2.7373E+05
1964	1.9700E+02	1.1570E+04			9.4200E+04	3.5028E+05
1965	6.0000E+01	1.0993E+04			1.0010E+05	4.2837E+05
1966	3.8000E+02	1.0759E+04			7.6600E+04	4.7933E+05
1967	1.1000E+02	1.0276E+04			8.0200E+04	5.3099E+05
1968	1.2000E+02	9.8283E+03	4.5000E+01	4.3748E+01	1.1330E+05	6.1199E+05
1969	1.2000E+02	9.4056E+03	2.2000E+01	6.2734E+01	6.4000E+04	6.4062E+05
1970	1.2000E+02	9.0060E+03	5.8000E+01	1.1568E+02	5.9690E+04	6.6349E+05
1971	2.8900E+02	8.7926E+03	7.2000E+01	1.7932E+02	7.9830E+04	7.0468E+05
1972	2.2000E+02	8.5239E+03	2.0000E+01	1.8892E+02	8.0000E+04	7.4377E+05
1973	7.3300E+02	8.7687E+03	3.0000E+00	1.8147E+02	5.9480E+04	7.6078E+05
1974	5.2700E+02	8.7997E+03	1.2000E+01	1.8318E+02	7.6740E+04	7.9362E+05
1975	6.0300E+02	8.9029E+03	4.0000E+00	1.7701E+02	3.8050E+04	7.8706E+05
1976	7.5000E+01	8.4872E+03	4.1220E+00	1.7130E+02	3.3540E+04	7.7646E+05
1977	4.0000E+00	8.0253E+03	1.2050E+00	1.6307E+02	8.2920E+04	8.1446E+05
1978		7.5848E+03	5.0760E-01	1.5462E+02	6.2810E+04	8.3082E+05
1979		7.1685E+03	9.0000E-01	1.4700E+02	6.2060E+04	8.4555E+05
1980		6.7750E+03		1.3894E+02	5.8170E+04	8.5569E+05
1981	1.5000E+01	6.4178E+03		1.3131E+02	3.3180E+04	8.4098E+05
1982	5.0000E+00	6.0704E+03	1.1000E-02	1.2411E+02	6.0660E+04	8.5380E+05
1983		5.7372E+03		1.1730E+02	5.5290E+04	8.6069E+05
1984		5.4223E+03		1.1086E+02	1.1750E+05	9.2768E+05
1985	3.3000E+01	5.1568E+03		1.0478E+02	1.6450E+05	1.0367E+06
1986		4.8737E+03		9.9028E+01	3.4690E+04	1.0135E+06
1987		4.6062E+03		9.3593E+01	1.7250E+03	9.5956E+05
1988		4.3534E+03		8.8456E+01	2.2260E+03	9.0905E+05
TOTAL	1.8423E+04		2.4275E+02		2.0144E+06	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>D Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	1.1740E+03	1.1413E+03				
1956	1.8780E+03	2.9044E+03				
1957	3.0050E+03	5.6664E+03				
1958	5.9500E+03	1.1140E+04				
1959	9.9590E+03	2.0210E+04	5.0000E+02	4.8608E+02		
1960	1.1780E+04	3.0553E+04	6.6000E+01	5.2357E+02		
1961	1.0120E+04	3.8714E+04	1.1760E+03	1.6381E+03		
1962	1.1330E+04	4.7604E+04	1.6440E+03	3.1464E+03		
1963	1.5120E+04	5.9691E+04	5.8700E+02	3.5444E+03		
1964	1.8040E+04	7.3952E+04	1.1730E+04	1.4753E+04	5.9330E+03	5.7679E+03
1965	1.9120E+04	8.8481E+04	1.6710E+03	1.5568E+04	1.6470E+04	2.1463E+04
1966	1.5240E+04	9.8441E+04	6.4000E+01	1.4776E+04	1.3290E+04	3.3205E+04
1967	1.2750E+04	1.0543E+05	4.9100E+02	1.4442E+04	1.3950E+04	4.4944E+04
1968	1.1340E+04	1.1067E+05	2.4300E+02	1.3886E+04	1.4260E+04	5.6341E+04
1969	1.3650E+04	1.1787E+05	3.9900E+02	1.3512E+04	1.0500E+04	6.3456E+04
1970	7.8660E+03	1.1904E+05	1.7490E+03	1.4470E+04	5.8550E+03	6.5665E+04
1971	5.4060E+03	1.1777E+05		1.3676E+04	6.9040E+03	6.8773E+04
1972	3.9420E+03	1.1513E+05		1.2925E+04	1.2480E+04	7.7131E+04
1973	9.5680E+03	1.1812E+05		1.2216E+04	9.8230E+03	8.2447E+04
1974	1.2280E+04	1.2357E+05		1.1545E+04	5.6210E+03	8.3386E+04
1975	6.5140E+03	1.2312E+05		1.0912E+04	1.6140E+03	8.0379E+04
1976	1.6130E+04	1.3205E+05		1.0313E+04	1.6180E+03	7.7540E+04
1977	1.2620E+04	1.3707E+05		9.7468E+03	1.1400E+03	7.4392E+04
1978	8.1950E+03	1.3751E+05	7.6090E+02	9.9516E+03	8.1800E+02	7.1104E+04
1979	3.0910E+03	1.3297E+05	7.3100E+03	1.6512E+04	1.7760E+03	6.8928E+04
1980	3.3140E+03	1.2889E+05	4.7740E+03	2.0247E+04	2.0420E+03	6.7130E+04
1981	2.4900E+03	1.2424E+05	7.2190E+03	2.6154E+04	2.7020E+03	6.6072E+04
1982	3.9570E+03	1.2127E+05	4.6420E+03	2.9231E+04	2.0360E+03	6.4425E+04
1983	5.7970E+03	1.2025E+05	5.7600E+03	3.3226E+04	3.9070E+03	6.4687E+04
1984	2.3300E+03	1.1591E+05	1.1700E+03	3.2540E+04	3.3020E+03	6.4347E+04
1985	7.8820E+02	1.1032E+05	3.8530E+03	3.4500E+04	2.0530E+03	6.2811E+04
1986	2.8570E+02	1.0454E+05	1.9240E+02	3.2793E+04	3.9960E+03	6.3249E+04
1987	3.7990E+00	9.8804E+04		3.0993E+04	1.3820E+03	6.1121E+04
1988	1.0840E+01	9.3392E+04		2.9292E+04	1.7420E+03	5.9459E+04
TOTAL	2.6504E+05		5.6001E+04		1.4521E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>D Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Liquid to Stream</u>		<u>F-Area Migration</u> <u>Seepage Basins to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967					2.6000E+03	2.5276E+03
1968			2.4000E+01	2.3332E+01	2.8870E+03	5.1956E+03
1969			3.0000E+01	5.1217E+01	2.5890E+03	7.4273E+03
1970			2.5000E+01	7.2710E+01	2.5920E+03	9.5395E+03
1971			2.2000E+01	9.0107E+01	2.2990E+03	1.1251E+04
1972	6.0900E+03	5.9205E+03	3.1000E+01	1.1530E+02	3.4850E+03	1.4021E+04
1973	5.3300E+03	1.0777E+04	3.3000E+01	1.4105E+02	4.1850E+03	1.7320E+04
1974	4.1850E+03	1.4254E+04	2.8000E+01	1.6053E+02	3.1760E+03	1.9457E+04
1975	3.0550E+03	1.6442E+04	1.9000E+01	1.7019E+02	2.0800E+03	2.0412E+04
1976	2.9250E+03	1.8383E+04	9.4200E+00	1.7001E+02	2.6530E+03	2.1870E+04
1977	2.8500E+03	2.0145E+04	8.7100E+00	1.6914E+02	3.6570E+03	2.4225E+04
1978	2.8800E+03	2.1839E+04	9.6000E+00	1.6919E+02	3.4540E+03	2.6253E+04
1979	2.2500E+03	2.2828E+04	9.4000E+00	1.6905E+02	2.1600E+03	2.6912E+04
1980	2.0000E+03	2.3519E+04	1.1000E+01	1.7046E+02	1.5070E+03	2.6900E+04
1981	1.9800E+03	2.4153E+04	1.0000E+01	1.7083E+02	1.1060E+03	2.6499E+04
1982	1.9900E+03	2.4762E+04	1.3160E+01	1.7424E+02	2.7700E+03	2.7738E+04
1983	1.9800E+03	2.5328E+04	1.6390E+01	1.8061E+02	2.5680E+03	2.8712E+04
1984	1.9800E+03	2.5863E+04	1.8480E+01	1.8867E+02	2.3200E+03	2.9391E+04
1985	1.9600E+03	2.6348E+04	1.2710E+01	1.9067E+02	2.6900E+03	3.0393E+04
1986	1.1350E+03	2.6006E+04	1.3310E+01	1.9314E+02	1.8000E+03	3.0475E+04
1987	2.6490E+02	2.4836E+04	1.2510E+01	1.9470E+02	2.7600E+03	3.1485E+04
1988	3.2900E+02	2.3793E+04	1.3800E+01	1.9743E+02	3.3300E+03	3.2995E+04
TOTAL	4.3184E+04		3.7049E+02		5.8668E+04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>Combined F & H Area</u> <u>Atmospheric</u>		<u>Combined F & H Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954				
1955	2.9450E+04	2.8630E+04		
1956	4.3900E+05	4.5384E+05		
1957	1.1350E+06	1.5323E+06	5.9800E+03	5.8136E+03
1958	2.2610E+06	3.6463E+06	5.5000E+03	1.0841E+04
1959	8.6310E+05	4.2853E+06	1.1500E+04	2.1426E+04
1960	6.8340E+05	4.7144E+06	1.2700E+04	3.2597E+04
1961	6.8650E+05	5.1231E+06	2.2000E+04	5.2195E+04
1962	7.9650E+05	5.6162E+06	3.0760E+04	7.9235E+04
1963	7.8480E+05	6.0709E+06	2.5400E+04	9.9579E+04
1964	1.0100E+06	6.7196E+06	2.7990E+04	1.2132E+05
1965	3.4080E+05	6.6821E+06	2.9290E+04	1.4314E+05
1966	3.4170E+05	6.6475E+06	3.7010E+04	1.7126E+05
1967	3.3830E+05	6.6116E+06	1.9550E+04	1.8087E+05
1968	4.5860E+05	6.6945E+06	3.4680E+04	2.0466E+05
1969	2.9640E+05	6.6152E+06	2.2690E+04	2.1548E+05
1970	2.7740E+05	6.5218E+06	3.2050E+04	2.3481E+05
1971	4.0390E+05	6.5565E+06	1.8930E+04	2.4033E+05
1972	5.5340E+05	6.7347E+06	2.2230E+04	2.4875E+05
1973	3.4120E+05	6.6967E+06	3.1830E+04	2.6604E+05
1974	6.8720E+05	6.9972E+06	1.5630E+04	2.6663E+05
1975	3.4590E+05	6.9495E+06	1.3830E+04	2.6544E+05
1976	1.4690E+05	6.7108E+06	2.1700E+04	2.7197E+05
1977	2.0590E+05	6.5427E+06	1.2750E+04	2.6944E+05
1978	2.0760E+05	6.3854E+06	1.3650E+04	2.6792E+05
1979	1.7070E+05	6.2009E+06	1.3480E+04	2.6632E+05
1980	1.6310E+05	6.0191E+06	1.3340E+04	2.6467E+05
1981	2.6600E+05	5.9473E+06	2.0950E+04	2.7051E+05
1982	2.7830E+05	5.8915E+06	1.3670E+04	2.6895E+05
1983	4.3180E+05	5.9879E+06	2.0430E+04	2.7405E+05
1984	5.4720E+05	6.1912E+06	2.1300E+04	2.7972E+05
1985	4.0250E+05	6.2427E+06	2.2310E+04	2.8605E+05
1986	2.7900E+05	6.1713E+06	3.6910E+04	3.0624E+05
1987	4.8950E+05	6.3084E+06	2.6760E+04	3.1544E+05
1988	3.5300E+05	6.3054E+06	1.2990E+04	3.1076E+05
TOTAL	1.7015E+07		6.6979E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>Combined Reator Area</u> <u>Seepage Basin Evaporation</u>		<u>Combined F & H Area</u> <u>Seepage Basin Evaporation</u>		<u>H Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958			1.7940E+03	1.7441E+03		
1959			1.6500E+03	3.2524E+03		
1960			3.4500E+03	6.4279E+03		
1961			3.8100E+03	9.7791E+03		
1962			6.6000E+03	1.5659E+04		
1963			9.2280E+03	2.3770E+04		
1964			7.2600E+03	2.9524E+04		
1965			8.3970E+03	3.6067E+04		
1966	1.2600E+04	1.2249E+04	8.7870E+03	4.2629E+04		
1967	1.1400E+04	2.2660E+04	1.1100E+04	5.1081E+04		
1968	7.0600E+03	2.8280E+04	5.8650E+03	5.3979E+04		
1969	7.0260E+03	3.3558E+04	1.0400E+04	6.1127E+04	4.6000E+01	4.4720E+01
1970	6.0000E+03	3.7549E+04	6.8070E+03	6.4389E+04	3.7000E+01	7.8236E+01
1971	5.0000E+03	4.0349E+04	9.6000E+03	7.0188E+04	2.6000E+01	9.9218E+01
1972	7.4000E+03	4.5328E+04	5.7000E+03	7.1877E+04	7.4000E+01	1.6571E+02
1973	1.0100E+04	5.2659E+04	6.7000E+03	7.4445E+04	1.3200E+02	2.8494E+02
1974	5.1700E+03	5.4795E+04	9.5500E+03	7.9644E+04	1.3100E+02	3.9666E+02
1975	4.6800E+03	5.6337E+04	6.9400E+03	8.2019E+04	9.8000E+01	4.7016E+02
1976	9.7800E+03	6.2753E+04	4.1500E+03	8.1552E+04	5.5000E+01	4.9782E+02
1977	3.7650E+03	6.2969E+04	6.5000E+03	8.3395E+04	1.5220E+02	6.1846E+02
1978	4.2380E+03	6.3633E+04	3.8240E+03	8.2535E+04	1.2260E+02	7.0371E+02
1979	2.6070E+03	6.2675E+04	4.0960E+03	8.1987E+04	1.4500E+02	8.0605E+02
1980	5.8570E+03	6.4929E+04	4.0440E+03	8.1419E+04	8.0000E+01	8.3958E+02
1981	5.6000E+03	6.6809E+04	4.0030E+03	8.0841E+04	7.3000E+01	8.6447E+02
1982	3.8400E+03	6.6875E+04	6.0000E+03	8.2237E+04	6.5000E+01	8.8021E+02
1983	4.2300E+03	6.7317E+04	4.1020E+03	8.1711E+04	1.1510E+02	9.4380E+02
1984	3.9830E+03	6.7494E+04	6.1310E+03	8.3187E+04	1.3000E+02	1.0184E+03
1985	4.9190E+03	6.8572E+04	6.3900E+03	8.4833E+04	1.8290E+02	1.1403E+03
1986	2.0100E+03	6.6762E+04	6.6930E+03	8.6684E+04	7.1390E+01	1.1471E+03
1987	1.8400E+03	6.4887E+04	1.1070E+04	9.2688E+04	5.5260E+01	1.1379E+03
1988	5.9200E+01	6.1383E+04	8.0280E+03	9.5405E+04	2.0430E+02	1.2740E+03
			3.8980E+03	9.3958E+04	1.2080E+01	1.2158E+03
TOTAL	1.2916E+05		2.0257E+05		2.0078E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>H-Area Migration</u> <u>Seepage Basins to Stream</u>		<u>ETF</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955					1.2000E+03	1.1666E+03
1956					3.4000E+03	4.4079E+03
1957					1.5400E+04	1.9137E+04
1958	4.0000E+02	3.8887E+02			9.9000E+03	2.7712E+04
1959	8.0000E+02	1.1453E+03			3.2900E+04	5.8175E+04
1960	1.6000E+03	2.6379E+03			5.7400E+04	1.1078E+05
1961	2.0000E+03	4.4374E+03			3.6400E+04	1.4009E+05
1962	1.7000E+03	5.8466E+03			6.9100E+04	1.9958E+05
1963	2.7000E+03	8.1505E+03			1.0570E+05	2.9138E+05
1964	4.7000E+03	1.2272E+04			9.5600E+04	3.6833E+05
1965	5.6000E+03	1.7043E+04			1.2480E+05	4.6944E+05
1966	4.6000E+03	2.0579E+04			9.3000E+04	5.3409E+05
1967	3.0000E+03	2.2366E+04			1.1910E+05	6.2056E+05
1968	2.9030E+03	2.3961E+04			1.0500E+05	6.8857E+05
1969	3.5000E+03	2.6049E+04			8.6800E+04	7.3517E+05
1970	4.3950E+03	2.8891E+04			1.1460E+05	8.0623E+05
1971	9.5440E+03	3.6584E+04			7.9820E+04	8.3957E+05
1972	5.3620E+03	3.9789E+04			1.1890E+05	9.0908E+05
1973	6.8110E+03	4.4226E+04			1.0680E+05	9.6301E+05
1974	5.7300E+03	4.7370E+04			8.4890E+04	9.9269E+05
1975	6.8000E+03	5.1380E+04			5.4100E+04	9.9080E+05
1976	4.3030E+03	5.2744E+04			5.8260E+04	9.9305E+05
1977	4.5260E+03	5.4249E+04			4.2510E+04	9.7987E+05
1978	5.4580E+03	5.6577E+04			4.4130E+04	9.6899E+05
1979	6.6900E+03	5.9976E+04			4.5450E+04	9.6000E+05
1980	5.3150E+03	6.1851E+04			5.2360E+04	9.5821E+05
1981	4.1680E+03	6.2508E+04			5.6710E+04	9.6075E+05
1982	8.9000E+03	6.7730E+04			5.9700E+04	9.6605E+05
1983	1.0520E+04	7.4239E+04			8.7610E+04	9.9820E+05
1984	1.2500E+04	8.2317E+04			5.7040E+04	9.9887E+05
1985	9.2800E+03	8.6820E+04			5.3030E+04	9.9560E+05
1986	1.2550E+04	9.4256E+04			4.3380E+04	9.8313E+05
1987	1.1780E+04	1.0053E+05			3.6550E+04	9.6470E+05
1988	7.6500E+03	1.0245E+05	1.0130E+02	9.8481+01	4.3860E+04	9.5439E+05
TOTAL	1.7579E+05		1.0130E+02		2.1954E+06	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	1.1740E+03	1.1413E+03				
1956	1.8780E+03	2.9044E+03				
1957	3.0050E+03	5.6664E+03				
1958	5.6710E+03	1.0869E+04				
1959	7.9240E+03	1.7975E+04	5.0000E+02	4.8608E+02		
1960	6.7140E+03	2.3516E+04		4.5941E+02		
1961	1.2590E+04	3.4465E+04		4.3419E+02		
1962	9.8900E+03	4.2188E+04		4.1036E+02		
1963	3.3270E+04	7.2217E+04		3.8784E+02		
1964	1.4740E+04	8.2583E+04		3.6655E+02		
1965	3.0320E+04	1.0753E+05	4.6700E+03	4.8865E+03		
1966	1.0720E+04	1.1205E+05		4.6183E+03	4.2000E+04	4.0831E+04
1967	1.3860E+04	1.1937E+05		4.3648E+03	3.8000E+04	7.5532E+04
1968	9.3410E+03	1.2190E+05		4.1252E+03	2.3540E+04	9.4272E+04
1969	5.7150E+03	1.2076E+05		3.8988E+03	2.3420E+04	1.1187E+05
1970	1.4130E+03	1.1551E+05		3.6848E+03	1.9890E+04	1.2506E+05
1971	1.3940E+03	1.1053E+05		3.4826E+03	1.6920E+04	1.3465E+05
1972	1.9870E+03	1.0639E+05		3.2914E+03	2.3790E+04	1.5038E+05
1973	3.3610E+03	1.0382E+05		3.1108E+03	3.3610E+04	1.7481E+05
1974	4.4770E+03	1.0247E+05		2.9400E+03	1.7250E+04	1.8198E+05
1975	1.2680E+04	1.0918E+05		2.7787E+03	1.5600E+04	1.8716E+05
1976	4.3710E+03	1.0743E+05		2.6261E+03	3.2590E+04	2.0857E+05
1977	4.4480E+03	1.0586E+05		2.4820E+03	1.2540E+04	2.0931E+05
1978	3.6510E+03	1.0360E+05		2.3458E+03	9.0240E+03	2.0660E+05
1979	3.5130E+03	1.0133E+05		2.2170E+03	8.5840E+03	2.0360E+05
1980	4.0730E+03	9.9726E+04		2.0953E+03	9.1700E+03	2.0134E+05
1981	3.5450E+03	9.7699E+04		1.9803E+03	5.0500E+03	1.9520E+05
1982	4.0010E+03	9.6226E+04		1.8716E+03	2.3920E+03	1.8681E+05
1983	3.4380E+03	9.4287E+04		1.7689E+03	4.2570E+03	1.8070E+05
1984	3.2030E+03	9.2226E+04		1.6718E+03	4.1550E+03	1.7482E+05
1985	2.7010E+03	8.9790E+04		1.5801E+03	6.6570E+03	1.7170E+05
1986	2.2110E+03	8.7011E+04		1.4933E+03	2.1180E+03	1.6433E+05
1987	1.7040E+03	8.3892E+04		1.4114E+03	4.2180E+03	1.5941E+05
1988	2.7350E+03	8.1946E+04		1.3339E+03	1.1260E+02	1.5077E+05
TOTAL	2.3572E+05		5.1700E+03		3.5489E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>K-Area Migration</u> <u>Seepage Basins to Stream</u>		<u>L Area</u> <u>Atmospheric</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955			1.9000E+03	1.8471E+03	1.1740E+03	1.1413E+03
1956			4.7000E+03	6.3149E+03	1.8780E+03	2.9044E+03
1957			1.3000E+04	1.8607E+04	3.0050E+03	5.6664E+03
1958			2.3900E+04	4.0820E+04	5.4080E+03	1.0613E+04
1959			2.5700E+04	6.3564E+04	5.9200E+03	1.5786E+04
1960			3.5800E+04	9.4879E+04	1.0540E+04	2.5166E+04
1961			4.1400E+04	1.2992E+05	1.0710E+04	3.4197E+04
1962			5.6200E+04	1.7742E+05	9.4570E+03	4.1513E+04
1963			5.8000E+04	2.2407E+05	2.0050E+03	4.1184E+04
1964			1.7760E+05	3.8443E+05	1.4960E+04	5.3467E+04
1965			9.9600E+04	4.6016E+05	1.4890E+04	6.5008E+04
1966			8.3000E+04	5.1559E+05	1.8650E+04	7.9571E+04
1967			8.0400E+04	5.6546E+05	1.1340E+04	8.6228E+04
1968			3.9600E+04	5.7292E+05	8.9530E+03	9.0199E+04
1969	1.2700E+04	1.2347E+04		5.4147E+05	8.9100E+02	8.6115E+04
1970	5.9000E+03	1.7405E+04		5.1175E+05	2.8100E+02	8.1661E+04
1971	6.0000E+03	2.2282E+04		4.8367E+05		7.7179E+04
1972	8.4000E+03	2.9226E+04		4.5712E+05		7.2943E+04
1973	1.6790E+04	4.3944E+04		4.3203E+05		6.8939E+04
1974	1.8220E+04	5.9245E+04		4.0832E+05		6.5156E+04
1975	1.8600E+04	7.4076E+04		3.8591E+05		6.1579E+04
1976	2.0900E+04	9.0328E+04		3.6472E+05		5.8200E+04
1977	8.4000E+03	9.3537E+04		3.4471E+05		5.5005E+04
1978	1.1500E+04	9.9583E+04		3.2579E+05		5.1986E+04
1979	1.0400E+04	1.0423E+05		3.0791E+05		4.9133E+04
1980	7.5800E+03	1.0588E+05		2.9101E+05		4.6436E+04
1981	8.9090E+03	1.0873E+05		2.7503E+05	4.0800E+02	4.4284E+04
1982	9.8600E+03	1.1234E+05	1.2500E+02	2.6006E+05	6.8020E+01	4.1920E+04
1983	6.6970E+03	1.1269E+05	4.2800E+02	2.4620E+05	2.8240E+00	3.9622E+04
1984	7.5000E+03	1.1379E+05	1.4500E+02	2.3283E+05	3.0000E+00	3.7450E+04
1985	6.7700E+03	1.1413E+05	5.7900E+02	2.2061E+05	8.0000E+00	3.5402E+04
1986	6.1300E+03	1.1383E+05	6.6800E+03	2.1500E+05		3.3459E+04
1987	3.6040E+03	1.1108E+05	5.8740E+03	2.0891E+05		3.1623E+04
1988	2.7800E+03	1.0769E+05	5.6470E+03	2.0293E+05		2.9887E+04
TOTAL	1.9764E+05		7.6028E+05		1.2055E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>L Area</u> <u>Liquid to L Lake</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958	3.1200E+02	3.0332E+02				
1959	5.0000E+02	7.7275E+02				
1960		7.3034E+02				
1961	3.2000E+01	7.2136E+02	8.4750E+03	8.2391E+03		
1962	1.2000E+01	6.9344E+02	2.2950E+03	1.0018E+04		
1963	9.0000E+01	7.4287E+02	3.0570E+03	1.2440E+04		
1964	2.7700E+02	9.7139E+02	2.8330E+03	1.4511E+04		
1965	7.2000E+01	9.8807E+02	6.1520E+03	1.9696E+04		
1966		9.3384E+02	4.4950E+03	2.2985E+04		
1967	9.1200E+02	1.7692E+03	1.0100E+03	2.2705E+04		
1968	5.5220E+03	7.0404E+03	3.1840E+03	2.4554E+04		
1969	1.0800E+02	6.7590E+03	5.7200E+02	2.3763E+04		
1970		6.3880E+03	1.9000E+02	2.2643E+04		
1971		6.0374E+03	2.8900E+02	2.1681E+04		
1972		5.7060E+03	9.1900E+02	2.1385E+04		
1973		5.3928E+03	2.9200E+02	2.0495E+04		
1974		5.0968E+03		1.9370E+04		
1975		4.8171E+03	2.0900E+02	1.8510E+04		
1976		4.5527E+03	2.4400E+02	1.7731E+04		
1977		4.3028E+03	1.9070E+02	1.6943E+04		
1978		4.0666E+03	4.4000E+01	1.6056E+04		
1979		3.8434E+03	1.0500E+02	1.5277E+04		
1980		3.6325E+03		1.4439E+04		
1981		3.4331E+03		1.3646E+04		
1982		3.2447E+03		1.2897E+04		
1983		3.0666E+03		1.2189E+04		
1984		2.8983E+03		1.1520E+04		
1985	1.0000E+00	2.7402E+03		1.0888E+04		
1986	2.4190E+01	2.6133E+03		1.0290E+04	1.9660E+02	1.9113E+02
1987	5.2330E+01	2.5207E+03		9.7255E+03	1.9650E+02	3.7167E+02
1988	6.4940E+01	2.4455E+03		9.1917E+03	1.6690E+02	5.1352E+02
TOTAL	7.9795E+03		3.4556E+04		5.6000E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>L Area</u> <u>L-Lake Overflow to Stream</u>		<u>M Area</u> <u>Atmospheric</u>		<u>P Area</u> <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954					2.2000E+03	2.1388E+03
1955					1.0300E+04	1.2035E+04
1956					1.3800E+04	2.4790E+04
1957					1.4800E+04	3.7818E+04
1958					2.6500E+04	6.1504E+04
1959					5.2500E+04	1.0917E+05
1960					5.3700E+04	1.5538E+05
1961					8.5400E+04	2.2988E+05
1962					5.6500E+04	2.7219E+05
1963					8.0300E+04	3.3531E+05
1964					6.9500E+04	3.8447E+05
1965					4.8800E+04	4.1081E+05
1966					4.6400E+04	4.3337E+05
1967					2.8300E+04	4.3710E+05
1968					3.3100E+04	4.4529E+05
1969					4.5740E+04	4.6532E+05
1970					4.6420E+04	4.8490E+05
1971					4.9540E+04	5.0645E+05
1972					6.7220E+04	5.4400E+05
1973					7.1160E+04	5.8332E+05
1974					6.7220E+04	6.1666E+05
1975					4.5730E+04	6.2727E+05
1976			2.7200E+00	2.6443E+00	3.9420E+04	6.3116E+05
1977				2.4992E+00	3.4490E+04	6.3005E+05
1978				2.3620E+00	4.5860E+04	6.4005E+05
1979				2.2324E+00	3.1440E+04	6.3549E+05
1980				2.1098E+00	2.5130E+04	6.2504E+05
1981				1.9940E+00	2.5740E+04	6.1576E+05
1982				1.8846E+00	3.0800E+04	6.1190E+05
1983				1.7811E+00	5.2130E+04	6.2900E+05
1984				1.6834E+00	3.9820E+04	6.3319E+05
1985				1.5910E+00	4.4550E+04	6.4174E+05
1986	3.1000E+02	3.0137E+02		1.5037E+00	5.3670E+04	6.5870E+05
1987	5.1500E+02	7.8550E+02		1.4211E+00	5.7080E+04	6.7803E+05
1988	5.0160E+02	1.2300E+03		1.3431E+00		
TOTAL	1.3266E+03		2.7200E+00		1.4953E+06	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>		<u>P-Area Migration</u> <u>Seepage Basins to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	1.1740E+03	1.1413E+03				
1956	1.8780E+03	2.9044E+03				
1957	3.0050E+03	5.6664E+03	1.9500E+02	1.8957E+02		
1958	2.8200E+03	8.0969E+03	3.1200E+02	4.8248E+02		
1959	7.4660E+03	1.4911E+04	5.0000E+02	9.4209E+02		
1960	9.2310E+03	2.3066E+04	9.6000E+01	9.8371E+02		
1961	1.0220E+04	3.1736E+04	1.8730E+03	2.7506E+03		
1962	7.8450E+03	3.7621E+04	8.6000E+01	2.6832E+03		
1963	8.0690E+03	4.3400E+04	7.2000E+01	2.6059E+03		
1964	1.1910E+04	5.2597E+04	1.6650E+03	4.0816E+03		
1965	1.1160E+04	6.0559E+04	2.9600E+03	6.7352E+03		
1966	1.5140E+04	7.1954E+04	8.4000E+01	6.4472E+03		
1967	9.2450E+03	7.6992E+04	1.1700E+02	6.2071E+03		
1968	1.1010E+04	8.3470E+04	1.9140E+03	7.7271E+03		
1969	1.4550E+04	9.3034E+04		7.3030E+03		
1970	8.4120E+03	9.6105E+04	3.8940E+03	1.0688E+04		
1971	5.4280E+03	9.6108E+04		1.0101E+04		
1972	9.4880E+03	1.0006E+05		9.5467E+03		
1973	1.7930E+04	1.1200E+05		9.0228E+03		
1974	9.1500E+03	1.1474E+05		8.5275E+03		
1975	3.8190E+03	1.1216E+05		8.0595E+03		
1976	8.7280E+03	1.1449E+05		7.6171E+03		
1977	7.5630E+03	1.1556E+05		7.1991E+03		
1978	3.2410E+03	1.1236E+05	4.3020E+03	1.0986E+04		
1979	2.6300E+02	1.0645E+05	1.0100E+04	2.0202E+04		
1980	2.5400E+02	1.0086E+05	5.5780E+03	2.4516E+04		
1981	1.8400E+02	9.5501E+04	6.4100E+03	2.9402E+04		
1982	2.3600E+02	9.0488E+04	5.7620E+03	3.3390E+04		
1983	3.7700E+02	8.5888E+04	4.0740E+03	3.5518E+04		
1984	7.7600E+02	8.1929E+04	7.9520E+03	4.1299E+04		
1985	5.4000E+01	7.7484E+04	5.8850E+03	4.4754E+04	1.7000E+02	1.6527E+02
1986		7.3231E+04	4.3520E+03	4.6528E+04		1.5620E+02
1987		6.9212E+04	1.8620E+03	4.5785E+04	1.2700E+02	2.7109E+02
1988		6.5413E+04	1.9810E+01	4.3291E+04	1.3400E+02	3.8648E+02
TOTAL	2.0063E+05		7.0065E+04		4.3100E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>P Area</u> <u>Par Pond Overflow to Stream</u>		<u>P Area</u> <u>Liquid to Par Pond</u>		<u>CMX-TNX</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959					8.3000E+03	8.0690E+03
1960					3.5000E+03	1.1029E+04
1961					1.7110E+03	1.2087E+04
1962					1.9100E+02	1.1609E+04
1963					5.6600E+02	1.1522E+04
1964					6.4000E+02	1.1512E+04
1965	6.5000E+03	6.3191E+03			4.0000E+02	1.1269E+04
1966	4.2250E+03	1.0080E+04			7.4200E+03	1.7864E+04
1967	2.8720E+03	1.2319E+04			6.8910E+03	2.3583E+04
1968	8.1700E+02	1.2437E+04				2.2288E+04
1969	8.1000E+01	1.1833E+04			2.1400E+03	2.3145E+04
1970	5.7000E+01	1.1239E+04				2.1875E+04
1971	8.8300E+02	1.1480E+04			3.1600E+02	2.0982E+04
1972	7.0400E+02	1.1535E+04			1.5000E+01	1.9845E+04
1973	2.1500E+03	1.2992E+04			2.2900E+02	1.8978E+04
1974	1.2000E+03	1.3445E+04	3.6500E+03	3.5484E+03	1.5000E+01	1.7951E+04
1975	3.4500E+03	1.6061E+04	5.9460E+03	9.1342E+03		1.6966E+04
1976	7.7500E+02	1.5933E+04	3.9220E+03	1.2446E+04		1.6035E+04
1977	1.2770E+03	1.6300E+04	2.0890E+03	1.3793E+04		1.5154E+04
1978	1.0880E+03	1.6463E+04	2.1340E+03	1.5111E+04		1.4323E+04
1979	1.4500E+03	1.6969E+04	3.5630E+03	1.7745E+04		1.3537E+04
1980	5.0000E+02	1.6524E+04	2.5910E+03	1.9290E+04		1.2794E+04
1981	2.6000E+02	1.5870E+04	1.9940E+03	2.0170E+04		1.2091E+04
1982	5.0100E+02	1.5486E+04	2.5630E+03	2.1555E+04		1.1428E+04
1983	5.4900E+02	1.5170E+04	2.8070E+03	2.3101E+04		1.0800E+04
1984	6.5500E+02	1.4974E+04	1.7290E+03	2.3513E+04		1.0208E+04
1985	4.2000E+02	1.4560E+04	1.2580E+03	2.3446E+04		9.6474E+03
1986	4.7000E+02	1.4218E+04	7.9190E+03	2.9858E+04		9.1179E+03
1987	4.9300E+02	1.3917E+04	9.3970E+02	2.9132E+04		8.6175E+03
1988	3.2690E+02	1.3471E+04	3.8870E+02	2.7911E+04		8.1445E+03
TOTAL	3.1704E+04		4.3493E+04		3.2334E+04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

	<u>R Area Atmospheric</u>		<u>R Area Liquid to Stream</u>		<u>R Area Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954			3.6600E+02	3.5581E+02		
1955	6.0000E+02	5.8330E+02	1.1740E+03	1.4776E+03		
1956	4.4000E+03	4.8288E+03	1.8780E+03	3.2222E+03		
1957	8.8000E+03	1.3119E+04	3.0050E+03	5.9668E+03	3.0050E+03	2.9214E+03
1958	2.2900E+04	3.4662E+04	4.1930E+03	9.7156E+03	3.1200E+02	3.0643E+03
1959	2.6300E+04	5.8327E+04	9.8830E+03	1.8790E+04	5.0000E+02	3.3822E+03
1960	4.0000E+04	9.4013E+04	8.6640E+03	2.6182E+04	4.8810E+03	7.9418E+03
1961	1.7600E+04	1.0596E+05	1.0200E+04	3.4661E+04	3.2200E+02	7.8189E+03
1962	5.0900E+04	1.4963E+05	8.1600E+03	4.0691E+04	1.0000E+00	7.3907E+03
1963	4.6800E+04	1.8692E+05	1.6230E+04	5.4236E+04		6.9851E+03
1964	5.6000E+04	2.3110E+05	1.5100E+04	6.5939E+04	5.5000E+01	6.6551E+03
1965		2.1841E+05		6.2320E+04		6.2899E+03
1966		2.0643E+05		5.8900E+04		5.9446E+03
1967		1.9510E+05		5.5667E+04		5.6184E+03
1968		1.8439E+05		5.2611E+04		5.3100E+03
1969		1.7427E+05		4.9724E+04		5.0185E+03
1970		1.6470E+05		4.6995E+04		4.7431E+03
1971		1.5566E+05		4.4415E+04		4.4828E+03
1972		1.4712E+05		4.1977E+04		4.2367E+03
1973		1.3904E+05		3.9673E+04		4.0042E+03
1974		1.3141E+05		3.7496E+04		3.7844E+03
1975		1.2420E+05		3.5438E+04		3.5767E+03
1976		1.1738E+05		3.3493E+04		3.3804E+03
1977		1.1094E+05		3.1655E+04		3.1948E+03
1978		1.0485E+05		2.9917E+04		3.0195E+03
1979		9.9096E+04		2.8275E+04		2.8538E+03
1980		9.3657E+04		2.6723E+04		2.6971E+03
1981		8.8516E+04		2.5256E+04		2.5491E+03
1982		8.3658E+04		2.3870E+04		2.4092E+03
1983		7.9066E+04		2.2560E+04		2.2770E+03
1984		7.4726E+04		2.1322E+04		2.1520E+03
1985		7.0625E+04		2.0152E+04		2.0339E+03
1986		6.6749E+04		1.9046E+04		1.9222E+03
1987		6.3085E+04		1.8000E+04		1.8167E+03
1988		5.9622E+04		1.7012E+04		1.7170E+03
TOTAL	2.7430E+05		7.8853E+04		9.0760E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

H-3

Central Shops
Liquid to Seepage Basins

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964	1.9000E+01	1.8471E+01
1965	4.4800E+02	4.5299E+02
1966		4.2813E+02
1967		4.0463E+02
1968		3.8242E+02
1969		3.6143E+02
1970		3.4159E+02
1971		3.2284E+02
1972		3.0512E+02
1973		2.8838E+02
1974		2.7255E+02
1975		2.5759E+02
1976		2.4345E+02
1977		2.3009E+02
1978		2.1746E+02
1979	1.0000E+00	2.0650E+02
1980		1.9516E+02
1981		1.8445E+02
1982	1.7000E-01	1.7449E+02
1983	5.0000E-01	1.6540E+02
1984	1.4470E+00	1.5773E+02
1985		1.4907E+02
1986		1.4089E+02
1987		1.3316E+02
1988		1.2585E+02
TOTAL	4.7012E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	C Area Atmospheric		F Area Atmospheric		H Area Atmospheric	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955	9.0000E+00	8.9995E+00	1.7500E+01	1.7499E+01	1.7500E+01	1.7499E+01
1956	9.0000E+00	1.7998E+01	1.7500E+01	3.4996E+01	1.7500E+01	3.4996E+01
1957	9.0000E+00	2.6995E+01	1.7500E+01	5.2490E+01	1.7500E+01	5.2490E+01
1958	9.0000E+00	3.5991E+01	1.7500E+01	6.9983E+01	1.7500E+01	6.9983E+01
1959	1.6000E+01	5.1986E+01	2.8000E+01	9.7973E+01	2.8000E+01	9.7973E+01
1960	1.6000E+01	6.7979E+01	2.8000E+01	1.2596E+02	2.8000E+01	1.2596E+02
1961	1.6000E+01	8.3969E+01	2.8000E+01	1.5394E+02	2.8000E+01	1.5394E+02
1962	1.6000E+01	9.9958E+01	2.8000E+01	1.8192E+02	2.8000E+01	1.8192E+02
1963	1.6000E+01	1.1595E+02	2.8000E+01	2.0990E+02	2.8000E+01	2.0990E+02
1964	1.4000E+01	1.2993E+02	2.3000E+01	2.3287E+02	2.3000E+01	2.3287E+02
1965	1.6000E+01	1.4591E+02	2.3000E+01	2.5584E+02	2.3000E+01	2.5584E+02
1966	1.6000E+01	1.6190E+02	2.3000E+01	2.7881E+02	2.3000E+01	2.7881E+02
1967	1.6000E+01	1.7787E+02	2.3000E+01	3.0177E+02	2.3000E+01	3.0177E+02
1968	1.4000E+01	1.9185E+02	1.8000E+01	3.1974E+02	1.8000E+01	3.1974E+02
1969	1.7000E+01	2.0883E+02	1.8000E+01	3.3770E+02	1.8000E+01	3.3770E+02
1970	1.7000E+01	2.2580E+02	1.8000E+01	3.5565E+02	1.8000E+01	3.5565E+02
1971	1.7000E+01	2.4277E+02	1.8000E+01	3.7361E+02	1.8000E+01	3.7361E+02
1972	1.7000E+01	2.5974E+02	1.8000E+01	3.9156E+02	1.8000E+01	3.9156E+02
1973	1.7000E+01	2.7671E+02	1.8000E+01	4.0952E+02	1.8000E+01	4.0952E+02
1974	1.5700E+01	2.9238E+02	1.6500E+01	4.2596E+02	1.6500E+01	4.2596E+02
1975	1.3600E+01	3.0594E+02	1.3500E+01	4.3941E+02	1.3500E+01	4.3941E+02
1976	1.6000E+01	3.2190E+02	1.4000E+01	4.5336E+02	1.4000E+01	4.5336E+02
1977	1.2000E+01	3.3386E+02	1.3000E+01	4.6630E+02	1.3000E+01	4.6630E+02
1978	1.1400E+01	3.4522E+02	1.1500E+01	4.7775E+02	1.1500E+01	4.7775E+02
1979	1.1000E+01	3.5618E+02	1.1500E+01	4.8919E+02	1.1500E+01	4.8919E+02
1980	1.3000E+01	3.6913E+02	1.3500E+01	5.0263E+02	1.3500E+01	5.0263E+02
1981	1.4000E+01	3.8309E+02	1.4000E+01	5.1656E+02	1.4000E+01	5.1656E+02
1982	1.6000E+01	3.9904E+02	1.7000E+01	5.3350E+02	1.6000E+01	5.3250E+02
1983	1.7670E+01	4.1666E+02	1.8500E+01	5.5194E+02	1.8500E+01	5.5094E+02
1984	1.6000E+01	4.3261E+02	1.7000E+01	5.6887E+02	1.7000E+01	5.6787E+02
1985	1.5000E+01	4.4756E+02	1.6000E+01	5.8480E+02	1.5000E+01	5.8280E+02
1986		4.4750E+02	2.2000E+01	6.0673E+02	3.0000E+00	5.8573E+02
1987		4.4745E+02	1.1600E+01	6.1825E+02	5.4000E+00	5.9106E+02
1988		4.4739E+02	9.7500E+00	6.2793E+02	3.2500E+00	5.9423E+02
TOTAL	4.4837E+02		6.2935E+02		5.9565E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	K Area Atmospheric		L Area Atmospheric		P Area Atmospheric	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955	9.0000E+00	8.9995E+00	9.0000E+00	8.9995E+00	1.0000E+01	9.9994E+00
1956	9.0000E+00	1.7998E+01	1.0000E+01	1.8998E+01	1.0000E+01	1.9998E+01
1957	9.0000E+00	2.6995E+01	1.0000E+01	2.8995E+01	1.0000E+01	2.9995E+01
1958	9.0000E+00	3.5991E+01	1.0000E+01	3.8991E+01	1.0000E+01	3.9990E+01
1959	1.6000E+01	5.1986E+01	1.6000E+01	5.4985E+01	1.7000E+01	5.6984E+01
1960	1.6000E+01	6.7979E+01	1.6000E+01	7.0977E+01	1.7000E+01	7.3976E+01
1961	1.6000E+01	8.3969E+01	1.6000E+01	8.6968E+01	1.7000E+01	9.0966E+01
1962	1.6000E+01	9.9958E+01	1.6000E+01	1.0296E+02	1.7000E+01	1.0795E+02
1963	1.6000E+01	1.1595E+02	1.6000E+01	1.1894E+02	1.7000E+01	1.2494E+02
1964	1.4000E+01	1.2993E+02	1.4000E+01	1.3293E+02	1.4000E+01	1.3892E+02
1965	1.6000E+01	1.4591E+02	1.6000E+01	1.4891E+02	1.6000E+01	1.5491E+02
1966	1.6000E+01	1.6190E+02	1.6000E+01	1.6489E+02	1.6000E+01	1.7089E+02
1967	1.6000E+01	1.7787E+02	1.6000E+01	1.8087E+02	1.6000E+01	1.8687E+02
1968	1.4000E+01	1.9185E+02	9.0000E+00	1.8985E+02	1.4000E+01	2.0084E+02
1969	1.7000E+01	2.0883E+02		1.8983E+02	1.7000E+01	2.1782E+02
1970	1.8000E+01	2.2680E+02		1.8980E+02	1.7000E+01	2.3479E+02
1971	1.7000E+01	2.4377E+02		1.8978E+02	1.7000E+01	2.5176E+02
1972	1.7000E+01	2.6074E+02		1.8976E+02	1.7000E+01	2.6873E+02
1973	1.7000E+01	2.7771E+02		1.8973E+02	1.7000E+01	2.8569E+02
1974	1.5700E+01	2.9337E+02		1.8971E+02	1.5700E+01	3.0136E+02
1975	1.2900E+01	3.0624E+02		1.8969E+02	1.2500E+01	3.1382E+02
1976	1.2000E+01	3.1820E+02		1.8966E+02	1.3000E+01	3.2678E+02
1977	1.3000E+01	3.3116E+02		1.8964E+02	1.2000E+01	3.3874E+02
1978	1.1300E+01	3.4242E+02		1.8962E+02	1.1300E+01	3.5000E+02
1979	1.1000E+01	3.5338E+02		1.8960E+02	1.1000E+01	3.6096E+02
1980	1.3000E+01	3.6633E+02		1.8957E+02	1.3000E+01	3.7391E+02
1981	1.3000E+01	3.7929E+02		1.8955E+02	1.4000E+01	3.8787E+02
1982	1.5000E+01	3.9424E+02		1.8953E+02	1.6000E+01	4.0382E+02
1983	1.7670E+01	4.1186E+02		1.8950E+02	1.7670E+01	4.2144E+02
1984	1.7000E+01	4.2881E+02		1.8948E+02	1.6000E+01	4.3739E+02
1985	1.5000E+01	4.4376E+02		1.8946E+02	1.5000E+01	4.5233E+02
1986	1.0330E+01	4.5404E+02		1.8944E+02	1.0330E+01	4.6261E+02
1987	8.0000E+00	4.6198E+02	8.0000E+00	1.9741E+02	8.0000E+00	4.7055E+02
1988	3.5200E+00	4.6544E+02	3.9600E+00	2.0135E+02	3.5200E+00	4.7401E+02
TOTAL	4.6642E+02		2.0196E+02		4.7502E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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R Area
Atmospheric

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955	1.1000E+01	1.0999E+01
1956	1.1000E+01	2.1997E+01
1957	1.1000E+01	3.2994E+01
1958	1.1000E+01	4.3989E+01
1959	1.7000E+01	6.0983E+01
1960	1.7000E+01	7.7975E+01
1961	1.7000E+01	9.4964E+01
1962	1.7000E+01	1.1195E+02
1963	1.7000E+01	1.2894E+02
1964	8.0000E+00	1.3692E+02
1965		1.3690E+02
1966		1.3689E+02
1967		1.3687E+02
1968		1.3685E+02
1969		1.3684E+02
1970		1.3682E+02
1971		1.3680E+02
1972		1.3679E+02
1973		1.3677E+02
1974		1.3676E+02
1975		1.3674E+02
1976		1.3672E+02
1977		1.3671E+02
1978		1.3669E+02
1979		1.3667E+02
1980		1.3666E+02
1981		1.3664E+02
1982		1.3662E+02
1983		1.3661E+02
1984		1.3659E+02
1985		1.3657E+02
1986		1.3656E+02
1987		1.3654E+02
1988		1.3652E+02

TOTAL 1.3700E+02

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>D Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964	6.0000E-01	8.5173E-05				
1965	1.0200E+00	1.4479E-04				
1966	8.5000E-01	1.2066E-04				
1967	4.2000E-01	5.9621E-05				
1968	3.4000E-01	4.8265E-05				
1969	2.2000E-01	3.1230E-05				
1970	3.6000E-01	5.1104E-05				
1971	5.0000E-01	7.0977E-05				
1972	7.0000E-02	9.9368E-06				
1973	1.6000E-02	2.2713E-06			4.2800E-03	6.0757E-07
1974	4.0000E-03	5.6782E-07				
1975						
1976	8.0000E-03	1.1356E-06				
1977	3.2300E-03	4.5851E-07				
1978	2.6590E-05		4.7060E-05			
1979			4.0400E-04			
1980			3.6400E-04			
1981			1.4450E-03	2.0512E-07		
1982			3.0100E-03	4.2728E-07		
1983			1.0290E-02	1.4607E-06		
1984			2.3000E-04			
1985			2.0000E-06			
1986						
1987						
1988						
TOTAL	4.4113E+00		1.5792E-02		4.2800E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

P-32

	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964	6.5000E-01	9.2271E-05			8.2000E-01	1.1640E-04
1965	8.9700E+00	1.2733E-03	3.7000E+01	5.2523E-03	6.1000E-01	8.6593E-05
1966	6.3600E+00	9.0283E-04	1.1400E+02	1.6183E-02	1.1800E+00	1.6751E-04
1967	2.6800E+00	3.8044E-04	9.0000E+00	1.2776E-03	7.1000E-01	1.0079E-04
1968	1.6000E+00	2.2713E-04			3.4000E-01	4.8265E-05
1969	3.0000E-01	4.2586E-05				
1970	1.3000E-01	1.8454E-05				
1971						
1972						
1973	4.6000E-02	6.5299E-06	1.8000E-02	2.5552E-06		
1974			2.2000E-02	3.1230E-06		
1975			8.0000E-03	1.1356E-06		
1976			9.0000E-03	1.2776E-06		
1977	5.0000E-04		2.2030E-02	3.1273E-06		
1978			8.5350E-04	1.2116E-07		
1979	4.0000E-03	5.6782E-07	1.2800E-04			
1980			5.6000E-04			
1981			6.6800E-04			
1982			3.3560E-03	4.7640E-07		
1983			4.3460E-03	6.1694E-07		
1984			2.6750E-03	3.7973E-07		
1985			1.0800E-04			
1986						
1987			1.0000E-06			
1988						
TOTAL	2.0740E+01		1.6009E+02		3.6600E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

P-32

	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964			3.8000E-01	5.3943E-05		
1965			3.0100E+00	4.2728E-04		
1966			1.8300E+00	2.5978E-04		
1967			3.2000E-01	4.5426E-05		
1968			1.6000E-01	2.2713E-05		
1969			2.1000E-01	2.9811E-05		
1970			2.8000E-01	3.9747E-05		
1971			4.2000E-01	5.9621E-05		
1972			2.3000E-01	3.2650E-05		
1973			6.7000E-02	9.5110E-06		
1974			1.0000E-02	1.4195E-06		
1975			2.0000E-03	2.8391E-07		
1976			9.0000E-03	1.2776E-06		
1977			2.7080E-03	3.8441E-07		
1978					2.7480E-03	3.9009E-07
1979					1.4890E-03	2.1137E-07
1980					9.4400E-04	1.3401E-07
1981					1.5900E-03	2.2571E-07
1982					4.8900E-04	
1983					1.2070E-03	1.7134E-07
1984					1.2600E-04	
1985	8.0000E-06				4.9300E-04	
1986					8.5000E-05	
1987					1.1670E-05	
1988	9.8210E-06					
TOTAL	1.7821E-05		6.9307E+00		9.1827E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

P-32

R Area
Liquid to Stream

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964	6.2000E-01	8.8012E-05
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
TOTA	6.2000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>D Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961	4.9000E+01	1.1523E+01				
1962	7.2730E+01	1.7740E+01				
1963	2.6610E+01	7.2386E+00				
1964	9.1600E+00	2.5543E+00				
1965	4.7100E+00	1.2488E+00				
1966	4.8000E+00	1.1978E+00				
1967	1.3910E+01	3.3373E+00				
1968	3.1360E+01	7.5591E+00	1.0000E-02	2.3516E-03		
1969	3.6200E+01	8.9307E+00	8.8000E-01	2.0707E-01		
1970	1.8040E+01	4.7361E+00	4.6600E+00	1.1073E+00		
1971	1.0340E+01	2.6934E+00		6.1232E-02	2.5000E-02	5.8789E-03
1972	2.2000E-01	2.0068E-01		3.3860E-03	5.0000E-03	1.5009E-03
1973	1.2820E+00	3.1257E-01		1.8725E-04	2.4600E-03	6.6148E-04
1974	4.3210E+00	1.0334E+00		1.0354E-05		3.6579E-05
1975	1.0400E-01	8.1602E-02		5.7259E-07		2.0228E-06
1976	5.9000E-02	1.8387E-02				1.1186E-07
1977	2.9690E-02	7.9986E-03				
1978	4.9600E-04	5.5895E-04	6.8710E-04	1.6158E-04		
1979		3.0909E-05	5.3230E-03	1.2607E-03		
1980		1.7093E-06	6.7380E-03	1.6542E-03		
1981			3.2240E-02	7.6729E-03		
1982			4.3120E-02	1.0564E-02		
1983			4.7460E-02	1.1745E-02		
1984			2.3500E-03	1.2021E-03		
1985			2.3450E-02	5.5809E-03		
1986			5.8830E-03	1.6920E-03		
1987				9.3569E-05		
1988				5.1743E-06		
TOTAL	2.8287E+02		5.7172E+00		3.2460E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

S-35

	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962	1.5510E+02	3.6473E+01			1.4630E+02	3.4404E+01
1963	6.5560E+01	1.7434E+01			4.4000E+00	2.9372E+00
1964	1.2090E+01	3.8071E+00			3.6360E+01	8.7127E+00
1965	1.9110E+01	4.7044E+00			5.9800E+00	1.8880E+00
1966	2.8000E+00	9.1859E-01			1.1180E+01	2.7335E+00
1967	2.4480E+01	5.8074E+00			3.1660E+01	7.5962E+00
1968	3.4320E+01	8.3917E+00	1.8530E+02	4.3575E+01	5.9510E+01	1.4414E+01
1969	4.7200E+00	1.5740E+00	7.5650E+01	2.0199E+01		7.9710E-01
1970	6.1000E-01	2.3049E-01	1.3380E+01	4.2634E+00		4.4079E-02
1971	4.7800E-02	2.3986E-02	3.0800E+00	9.6005E-01		2.4375E-03
1972	1.8000E-01	4.3655E-02	9.7000E-01	2.8119E-01		1.3479E-04
1973	7.4000E-02	1.9816E-02	1.6600E-01	5.4586E-02		7.4538E-06
1974		1.0958E-03	7.3000E-01	1.7468E-01		4.1219E-07
1975	9.4000E-02	2.2165E-02	5.1000E-02	2.1653E-02		
1976		1.2257E-03	3.0800E-01	7.3626E-02		
1977	5.4520E-01	1.2828E-01	5.1280E-02	1.6130E-02		
1978		7.0935E-03	1.0370E-02	3.3306E-03		
1979	1.0700E+00	2.5201E-01	6.3140E-03	1.6690E-03		
1980		1.3936E-02	1.9330E-03	5.4685E-04		
1981		7.7064E-04	5.7060E-03	1.3720E-03		
1982		4.2616E-05	9.1900E-02	2.1687E-02		
1983		2.3566E-06	1.4540E-02	4.6184E-03		
1984		1.3032E-07	4.1880E-03	1.2402E-03		
1985			1.2750E-02	3.0668E-03		
1986			2.0440E-03	6.5025E-04		
1987			3.3940E-03	8.3408E-04		
1988			2.3810E-03	6.0603E-04		
TOTAL	3.2080E+02		2.7984E+02		2.9539E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962					7.7680E+01	1.8267E+01
1963					2.1570E+01	6.0825E+00
1964					1.4920E+01	3.8449E+00
1965					5.6030E+01	1.3388E+01
1966					1.0220E+02	2.4773E+01
1967					8.3230E+01	2.0942E+01
1968					4.6250E+01	1.2034E+01
1969			2.0000E-03	4.7031E-04	2.3430E+01	6.1752E+00
1970			1.0000E-03	2.6117E-04	7.0200E+00	1.9923E+00
1971			1.4000E-02	3.3066E-03	1.0480E+00	3.5662E-01
1972				1.8285E-04	1.0900E+00	2.7604E-01
1973			1.0000E-03	2.4527E-04	3.4500E-01	9.6394E-02
1974				1.3563E-05	6.4800E-01	1.5771E-01
1975				7.5003E-07	9.3000E-02	3.0591E-02
1976			1.0000E-03	2.3520E-04	2.8500E-01	6.8711E-02
1977				1.3006E-05	4.4420E-02	1.4245E-02
1978				7.1923E-07	1.4880E-02	4.2869E-03
1979						2.3706E-04
1980						1.3109E-05
1981						7.2493E-07
1982						
1983						
1984						
1985						
1986	1.8390E-02	4.3245E-03				
1987	7.1710E-03	1.9255E-03				
1988	4.6840E-05	1.1749E-04				
TOTAL	2.5608E-02		1.9000E-02		4.3590E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

S-35

	P Area <u>Purges to Seepage Basins</u>		R Area <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960				
1961			1.7000E+01	3.9977E+00
1962			5.9840E+01	1.4293E+01
1963			3.7440E+01	9.5947E+00
1964			1.8760E+01	4.9421E+00
1965				2.7329E-01
1966				1.5113E-02
1967				8.3573E-04
1968				4.6215E-05
1969				2.5556E-06
1970				1.4132E-07
1971				
1972				
1973				
1974				
1975				
1976				
1977				
1978	1.8660E-03	4.3880E-04		
1979	7.7300E-03	1.8420E-03		
1980	2.2040E-03	6.2015E-04		
1981	3.6180E-02	8.5423E-03		
1982	4.1960E-02	1.0340E-02		
1983	4.0230E-02	1.0032E-02		
1984	8.1560E-03	2.4727E-03		
1985	6.9120E-03	1.7621E-03		
1986	7.1510E-04	2.6561E-04		
1987	1.2450E-02	2.9424E-03		
1988	6.8340E-06	1.6432E-04		
TOTAL	1.5841E-01		1.3304E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ar-41

	<u>C Area</u> <u>Atmospheric</u>		<u>K Area</u> <u>Atmospheric</u>		<u>L Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	2.0000E+04		3.0000E+04		3.0000E+04	
1956	5.0000E+04		5.0000E+04		5.0000E+04	
1957	5.0000E+04		6.0000E+04		6.0000E+04	
1958	6.0000E+04		7.0000E+04		7.0000E+04	
1959	8.0000E+04		9.0000E+04		9.0000E+04	
1960	8.0000E+04		8.0000E+04		8.0000E+04	
1961	8.0000E+04		8.0000E+04		8.0000E+04	
1962	9.0000E+04		8.0000E+04		8.0000E+04	
1963	9.0000E+04		9.0000E+04		9.0000E+04	
1964	8.0000E+04		7.0000E+04		7.0000E+04	
1965	7.0000E+04		7.0000E+04		7.0000E+04	
1966	7.0000E+04		7.0000E+04		7.0000E+04	
1967	8.0000E+04		8.0000E+04		8.0000E+04	
1968	8.0000E+04		7.0000E+04			
1969	5.0000E+04		5.0000E+04			
1970	3.6600E+04		3.6700E+04			
1971	4.2000E+04		4.0000E+04			
1972	5.2760E+04		5.7720E+04			
1973	4.4180E+04		7.0620E+04			
1974	2.5520E+04		3.0000E+04			
1975	2.3890E+04		1.8050E+04			
1976	3.2220E+04		2.3850E+04			
1977	3.0870E+04		1.5840E+04			
1978	1.7200E+04		1.8340E+04			
1979	2.0970E+04		1.5540E+04			
1980	3.1710E+04		1.5570E+04			
1981	2.2620E+04		1.9550E+04			
1982	1.9470E+04		1.6720E+04			
1983	5.6090E+03		1.0570E+04			
1984	6.6530E+03		5.8080E+03			
1985	1.0340E+04		1.0160E+04		1.3000E+01	
1986	4.0000E+00		1.6320E+04		1.3770E+04	
1987			4.0790E+04		7.9720E+03	
1988			1.0150E+04		1.5540E+03	
TOTAL	1.4526E+06		1.5123E+06		9.4331E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ar-41

	P Area <u>Atmospheric</u>		R Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954	2.5000E+04		2.5000E+04	
1955	3.0000E+04		3.0000E+04	
1956	5.0000E+04		5.0000E+04	
1957	6.0000E+04		6.0000E+04	
1958	7.0000E+04		7.0000E+04	
1959	9.0000E+04		9.0000E+04	
1960	8.0000E+04		8.0000E+04	
1961	9.0000E+04		9.0000E+04	
1962	9.0000E+04		9.0000E+04	
1963	9.0000E+04		9.0000E+04	
1964	7.0000E+04		8.0000E+04	
1965	6.0000E+04			
1966	7.0000E+04			
1967	8.0000E+04			
1968	7.0000E+04			
1969	4.0000E+04			
1970	3.6700E+04			
1971	5.9000E+04			
1972	5.6180E+04			
1973	6.9640E+04			
1974	5.2130E+04			
1975	2.2950E+04			
1976	2.6740E+04			
1977	1.8370E+04			
1978	1.7410E+04			
1979	1.6520E+04			
1980	2.2440E+04			
1981	1.9690E+04			
1982	2.4000E+04			
1983	2.4560E+04			
1984	2.3460E+04			
1985	3.1240E+04			
1986	5.3090E+04			
1987	3.8910E+04			
1988	1.7810E+04			
TOTAL	1.6958E+06		7.5500E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cr-51

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>D Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.6800E+00	1.7419E-02				
1961	1.1500E+01	1.1924E-01				
1962	5.2990E+01	5.4943E-01				
1963	4.0970E+02	4.2480E+00				
1964	2.0280E+02	2.1032E+00	1.4630E+01	1.5169E-01		
1965	1.9270E+02	1.9982E+00	9.1900E+00	9.5301E-02		
1966	3.2310E+02	3.3502E+00	2.9500E+00	3.0597E-02		
1967	1.6820E+02	1.7443E+00		3.2892E-06	9.0000E-02	9.3315E-04
1968	2.7540E+01	2.8573E-01	2.0000E-01	2.0737E-03		1.0032E-07
1969	1.9820E+01	2.0553E-01	4.2000E-01	4.3549E-03		
1970	7.6500E+00	7.9340E-02	1.6200E+00	1.6797E-02		
1971	7.1720E+00	7.4370E-02		1.8057E-06		
1972	1.8000E-01	1.8743E-03				
1973	1.6400E-01	1.7006E-03				
1974	4.8600E-01	5.0392E-03				
1975	6.8000E-02	7.0559E-04				
1976	1.8100E-01	1.8767E-03				
1977	4.3220E-01	4.4814E-03				
1978	2.5110E-02	2.6083E-04	1.8930E-02	1.9627E-04		
1979			1.7280E-01	1.7917E-03		
1980			1.3490E-01	1.3989E-03		
1981			1.8080E-01	1.8747E-03		
1982			2.7730E-01	2.8753E-03		
1983			3.4610E-04	3.8976E-06		
1984			2.3760E-02	2.4635E-04		
1985			1.5320E-01	1.5885E-03		
1986			6.4780E-04	6.8874E-06		
1987						
1988						
TOTAL	1.4264E+03		2.9973E+01		9.0000E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cr-51

	<u>H Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			8.4000E-01	8.7094E-03		
1961			1.1200E+01	1.1613E-01		
1962			1.9620E+01	2.0344E-01		
1963			2.0200E+02	2.0944E+00		
1964			3.1190E+02	3.2341E+00		
1965			2.4510E+02	2.5416E+00	2.4000E+00	2.4884E-02
1966			4.6500E+00	4.8486E-02		2.6751E-06
1967			3.6990E+01	3.8353E-01		
1968			3.7030E+01	3.8398E-01		
1969			1.0250E+01	1.0632E-01		
1970				1.1429E-05		
1971	2.4470E+01	2.5371E-01	1.1700E-03	1.2132E-05		
1972	3.0120E+01	3.1232E-01				
1973	1.3670E+01	1.4177E-01				
1974	7.7200E+00	8.0059E-02				
1975	4.5070E+00	4.6739E-02				
1976	6.0250E+00	6.2474E-02				
1977	5.9830E+00	6.2040E-02	1.5940E-01	1.6527E-03		
1978	1.4230E+00	1.4761E-02		1.7767E-07		
1979	7.7700E-01	8.0578E-03	5.3800E-01	5.5782E-03		
1980	1.0850E+00	1.1250E-02		5.9966E-07		
1981	2.1020E+00	2.1795E-02				
1982	2.0990E+00	2.1765E-02				
1983	1.0890E+00	1.1293E-02				
1984	5.6640E+00	5.8727E-02				
1985	3.5510E+00	3.6824E-02				
1986	4.3660E-01	4.5308E-03				
1987	4.1750E-02	4.3336E-04				
1988	7.0580E-04	7.3646E-06				
TOTAL	1.1076E+02		8.8028E+02		2.4000E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cr-51

	<u>K Area</u>		<u>L Area</u>		<u>L Area</u>	
	<u>Purges to Containment Basln</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			1.8800E+00	1.9492E-02		
1961			1.0200E+01	1.0576E-01		
1962			1.2530E+01	1.2993E-01		
1963			9.0170E+01	9.3493E-01		
1964			8.0850E+01	8.3838E-01	1.7400E+00	1.8041E-02
1965			2.1150E+02	2.1930E+00	4.0000E-03	4.3413E-05
1966			2.9600E+02	3.0693E+00		
1967			3.0440E+01	3.1594E-01	2.5200E+00	2.6128E-02
1968	1.1360E+02	1.1778E+00	5.6100E+00	5.8200E-02	1.9900E+00	2.0636E-02
1969	2.9540E+02	3.0629E+00		6.2567E-06		2.2184E-06
1970	6.9300E+00	7.2182E-02				
1971	6.3000E-01	6.5398E-03				
1972	5.1000E-01	5.2885E-03				
1973	4.1200E-01	4.2723E-03				
1974	1.6400E-01	1.7009E-03				
1975	5.8000E-02	6.0155E-04				
1976	3.5000E-01	3.6290E-03				
1977	1.4260E-01	1.4789E-03				
1978	9.3100E-02	9.6545E-04				
1979	1.4780E-01	1.5325E-03				
1980	2.2140E-01	2.2957E-03				
1981	8.2350E-02	8.5408E-04				
1982	3.6100E-01	3.7431E-03				
1983	1.1970E-02	1.2451E-04				
1984	2.0890E-02	2.1661E-04				
1985	2.4210E-02	2.5104E-04			1.7800E-04	1.8456E-06
1986	1.4320E-02	1.4850E-04			6.0500E-03	6.2729E-05
1987	5.8480E-03	6.0650E-05			3.8230E-03	3.9645E-05
1988	7.2060E-04	7.4779E-06			1.2480E-03	1.2944E-05
TOTAL	4.1918E+02		7.3918E+02		6.2653E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cr-51

	L Area <u>Purges to Oil & Chemical Basin</u>		P Area <u>Liquid to Stream</u>		P Area <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			4.2400E+00	4.3962E-02		
1961			9.5000E+00	9.8504E-02		
1962			6.6640E+01	6.9096E-01		
1963			2.4110E+02	2.4999E+00		
1964	4.4420E+01	4.6056E-01	3.5900E+02	3.7225E+00	6.0000E-02	6.2210E-04
1965	8.8130E+01	9.1381E-01	1.3410E+02	1.3908E+00	4.0000E-03	4.1540E-05
1966	4.6900E+00	4.8726E-02	1.2700E+00	1.3317E-02	2.0000E-03	2.0741E-05
1967		5.2381E-06	6.3200E+00	6.5529E-02		
1968			1.5660E+01	1.6238E-01	1.7700E+00	1.8352E-02
1969	1.0000E-03	1.0368E-05	3.8450E+01	3.9868E-01		1.9729E-06
1970			8.2600E+00	8.5685E-02		
1971	2.3000E-02	2.3847E-04	1.5500E-01	1.6163E-03		
1972	6.5000E-01	6.7394E-03	1.2000E+00	1.2442E-02		
1973		7.2450E-07	2.8100E-01	2.9148E-03		
1974			1.0900E-01	1.1305E-03		
1975			4.8000E-02	4.9780E-04		
1976			1.8100E-01	1.8767E-03		
1977			7.0030E-02	7.2630E-04		
1978			1.5300E-02	1.5871E-04	8.8870E-03	9.2143E-05
1979					1.7370E-01	1.8010E-03
1980					1.0660E-01	1.1055E-03
1981					8.3590E-02	8.6681E-04
1982					1.4330E-01	1.4859E-03
1983					7.8650E-02	8.1563E-04
1984					2.2270E-01	2.3091E-03
1985					9.6410E-02	9.9986E-04
1986					9.6080E-02	9.9630E-04
1987					4.6580E-02	4.8306E-04
1988						
TOTAL	1.3791E+02		8.8660E+02		2.8925E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cr-51

	R Area <u>Liquid to Stream</u>		R Area <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960	2.8100E+00	2.9135E-02		
1961	1.9100E+01	1.9804E-01		
1962	5.9500E+01	6.1694E-01		
1963	3.3740E+02	3.4983E+00		
1964	1.3080E+02	1.3566E+00	1.0000E-02	1.0368E-04
1965		1.4583E-04		
1966				
1967				
1968				
1969				
1970				
1971				
1972				
1973				
1974				
1975				
1976				
1977				
1978				
1979				
1980				
1981				
1982				
1983				
1984				
1985				
1986				
1987				
1988				
TOTAL	5.4961E+02		1.0000E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

Mn-54

	<u>C Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Stream</u>	<u>Liquid to Stream</u>	<u>Purges to Containment Basin</u>	<u>Purges to Containment Basin</u>	<u>Purges to Containment Basin</u>	<u>Purges to Containment Basin</u>
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964	1.4000E-01	9.3395E-02	4.8000E-01	3.2021E-01		
1965		4.1564E-02		1.4251E-01		
1966		1.8498E-02		6.3420E-02		
1967		8.2321E-03		2.8224E-02		
1968		3.6636E-03		1.2561E-02		
1969		1.6304E-03		5.5900E-03		
1970		7.2560E-04		2.4878E-03		
1971		3.2292E-04		1.1071E-03		
1972		1.4371E-04		4.9272E-04		
1973		6.3956E-05		2.1928E-04		
1974		2.8463E-05		9.7587E-05		
1975		1.2667E-05		4.3430E-05		
1976		5.6373E-06		1.9328E-05		
1977		2.5088E-06	2.1010E-02	1.4025E-02		
1978		1.1165E-06		6.2414E-03		
1979		4.9688E-07		2.7777E-03		
1980		2.2113E-07		1.2362E-03		
1981				5.5014E-04		
1982				2.4483E-04	1.1000E-05	7.3382E-06
1983				1.0896E-04		3.2658E-06
1984				4.8490E-05		1.4534E-06
1985				2.1580E-05		6.4681E-07
1986				9.6039E-06		2.8785E-07
1987				4.2741E-06		1.2810E-07
1988				1.9021E-06		
TOTAL	1.4000E-01		5.0101E-01		1.1000E-05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-58

H Area
Liquid to Seepage Basins

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	9.7000E-01	1.6228E-01
1972	1.0000E-01	2.1271E-02
1973	3.9000E-01	6.5840E-02
1974	6.2000E-01	1.0557E-01
1975	4.8100E-01	8.3423E-02
1976	1.1300E-01	2.1239E-02
1977	6.0000E-03	1.5982E-03
1978	5.3910E-04	1.3492E-04
1979		3.7760E-06
1980		1.0568E-07
1981	7.0200E-04	1.1744E-04
1982	2.2420E-04	4.0794E-05
1983	2.1230E-02	3.5528E-03
1984	1.4000E-02	2.4416E-03
1985	7.0000E-03	1.2394E-03
1986	2.2470E-03	4.1060E-04
1987	9.3710E-04	1.6826E-04
1988	2.7770E-04	5.1167E-05
TOTAL	2.7272E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

	A Area Atmospheric		C Area Liquid to Stream		C Area Purges to Seepage Basins	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955			2.6000E-02	2.4345E-02		
1956			2.4000E-02	4.3818E-02		
1957			4.4000E-02	7.9619E-02		
1958			8.2000E-02	1.4659E-01		
1959			9.2400E-01	9.9373E-01	2.9400E-01	2.7529E-01
1960			5.2000E-01	1.3582E+00	1.2700E-01	3.6029E-01
1961			1.1000E+00	2.2208E+00	4.0000E-02	3.5335E-01
1962			1.5500E+00	3.3985E+00	7.8000E-03	3.1711E-01
1963			6.2000E-01	3.5603E+00	9.8000E-02	3.6980E-01
1964			1.8000E-01	3.2902E+00	2.3000E-01	5.3960E-01
1965			7.2000E-01	3.5589E+00	9.0000E-02	5.5738E-01
1966			4.2000E-01	3.5137E+00	3.0000E-02	5.1679E-01
1967			2.7000E-01	3.3335E+00	8.0000E-02	5.2802E-01
1968	3.9300E-02	3.6799E-02	9.6000E-01	3.8217E+00	4.0000E-03	4.6670E-01
1969	1.0990E-02	4.2555E-02		3.3508E+00		4.0920E-01
1970	2.7500E-03	3.9887E-02	1.7000E-01	3.0971E+00	1.0000E-03	3.5971E-01
1971	2.6400E-03	3.7444E-02	4.6040E+00	7.0265E+00		3.1539E-01
1972	7.1200E-03	3.9497E-02	2.0000E-02	6.1794E+00		2.7652E-01
1973	1.7800E-03	3.6297E-02	1.4000E-02	5.4311E+00		2.4245E-01
1974	3.8700E-03	3.5448E-02		4.7618E+00		2.1258E-01
1975	1.1050E-03	3.2115E-02	4.0000E-03	4.1788E+00		1.8638E-01
1976	1.2900E-04	2.8278E-02	1.0000E-03	3.6649E+00		1.6342E-01
1977	3.8000E-04	2.5150E-02	7.9800E-04	3.2140E+00		1.4328E-01
1978	3.8000E-04	2.2407E-02	3.9390E-04	2.8183E+00		1.2562E-01
1979	4.0000E-04	2.0020E-02	3.5000E-05	2.4711E+00	1.4000E-04	1.1028E-01
1980	6.1700E-04	1.8131E-02		2.1666E+00	1.9800E-04	9.6873E-02
1981	8.9000E-05	1.5980E-02	1.3200E-04	1.8998E+00	2.1400E-04	8.5137E-02
1982	4.4000E-05	1.4052E-02		1.6657E+00	6.0000E-05	7.4702E-02
1983	1.6800E-04	1.2478E-02		1.4604E+00	1.8490E-04	6.5670E-02
1984	5.4000E-05	1.0991E-02		1.2805E+00	8.5000E-04	5.8374E-02
1985		9.6367E-03		1.1227E+00	2.4200E-04	5.1408E-02
1986		8.4493E-03		9.8435E-01	1.2070E-04	4.5187E-02
1987		7.4082E-03		8.6306E-01		3.9619E-02
1988		6.4953E-03		7.5671E-01		3.4737E-02
TOTAL	7.1816E-02		1.2254E+01		1.0038E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

	<u>D Area</u>		<u>F Area</u>		<u>F Area</u>	
	<u>Liquid to Stream</u>		<u>Atmospheric</u>		<u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967	1.1000E-01	1.0300E-01				
1968	4.0000E-02	1.2776E-01				
1969	1.0000E-02	1.2138E-01			2.0000E-02	1.8727E-02
1970	2.0000E-03	1.0830E-01			9.0000E-02	1.0069E-01
1971	5.0000E-03	9.9636E-02	1.8970E-02	1.7763E-02	1.0000E-02	9.7649E-02
1972	1.0000E-03	8.8295E-02	9.0000E-05	1.5658E-02		8.5616E-02
1973	3.4000E-03	8.0599E-02		1.3729E-02		7.5067E-02
1974		7.0668E-02		1.2037E-02		6.5817E-02
1975		6.1960E-02		1.0554E-02		5.7707E-02
1976		5.4325E-02		9.2535E-03		5.0596E-02
1977		4.7631E-02		8.1133E-03		4.4362E-02
1978		4.1762E-02		7.1136E-03		3.8895E-02
1979		3.6616E-02		6.2370E-03		3.4103E-02
1980		3.2104E-02		5.4685E-03		2.9900E-02
1981		2.8148E-02		4.7947E-03		2.6216E-02
1982		2.4680E-02		4.2039E-03		2.2986E-02
1983		2.1639E-02		3.6859E-03		2.0153E-02
1984		1.8972E-02		3.2317E-03		1.7670E-02
1985		1.6635E-02		2.8335E-03		1.5493E-02
1986		1.4585E-02	7.0000E-06	2.4909E-03		1.3584E-02
1987		1.2788E-02		2.1840E-03		1.1910E-02
1988		1.1212E-02	3.0000E-06	1.9177E-03		1.0442E-02
TOTAL	1.7140E-01		1.9070E-02		1.2000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

	<u>H Area</u> <u>Atmospheric</u>		<u>H Area</u> <u>Liquid to Seepage Basins</u>		<u>K Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954					2.2000E-02	2.0600E-02
1955					4.8000E-02	6.3007E-02
1956					1.3000E-01	1.7697E-01
1957					6.2000E-02	2.1322E-01
1958					3.8400E-01	5.4651E-01
1959					2.7200E+00	3.0261E+00
1960					1.0500E+00	3.6364E+00
1961					1.7900E+00	4.8644E+00
1962					6.7000E-01	4.8924E+00
1963					1.4000E-01	4.4206E+00
1964					7.7900E+00	1.1170E+01
1965						9.7938E+00
1966					8.6000E-01	9.3923E+00
1967					5.8000E-01	8.7780E+00
1968						7.6964E+00
1969			6.6000E-01	6.1800E-01		6.7480E+00
1970			3.2000E-01	8.4149E-01		5.9186E+00
1971	6.2000E-04	5.8055E-04	4.2000E-01	1.1311E+00	2.2200E-03	5.2268E+00
1972		5.0901E-04	3.0000E-02	1.0198E+00	4.0000E-02	4.5902E+00
1973		4.4629E-04	4.0000E-02	9.3159E-01	8.0000E-03	4.0246E+00
1974		3.9130E-04	4.9000E-01	1.2756E+00		3.5324E+00
1975		3.4308E-04	4.1400E-01	1.5061E+00	4.0000E-03	3.0981E+00
1976		3.0081E-04	4.6700E-01	1.7578E+00	1.0000E-03	2.8123E+00
1977		2.6374E-04	3.9800E-01	1.9139E+00	1.0250E-01	2.4658E+00
1978		2.3124E-04	1.6520E-01	1.8327E+00		2.5421E+00
1979		2.0275E-04	1.0300E-01	1.7033E+00	4.0600E-01	2.2303E+00
1980		1.7777E-04	2.1900E-01	1.6985E+00	1.4700E-03	1.9554E+00
1981		1.5586E-04	1.5860E-01	1.6377E+00		1.7145E+00
1982		1.3666E-04	2.5670E-01	1.6763E+00		1.5032E+00
1983		1.1982E-04	2.2170E-01	1.6773E+00		1.3180E+00
1984		1.0505E-04	2.6500E-01	1.7188E+00		1.1556E+00
1985		9.2108E-05	2.8100E-01	1.7701E+00		1.0132E+00
1986	1.0000E-06	8.1695E-05	1.2800E-01	1.6719E+00		8.8835E-01
1987		7.1629E-05	1.2890E-02	1.4779E+00		7.7889E-01
1988		6.2802E-05	5.8780E-04	1.2964E+00		
TOTAL	6.2100E-04		5.0507E+00		1.6811E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

	<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955					5.6000E-02	5.2436E-02
1956					1.0000E-01	1.3961E-01
1957					2.3800E-01	3.4526E-01
1958					2.1200E-01	5.0123E-01
1959	4.0000E-02	3.7455E-02			5.3200E-01	9.3761E-01
1960	6.2000E-03	3.8645E-02			2.5700E+00	3.2285E+00
1961		3.3883E-02			1.5100E+00	4.2446E+00
1962		2.9708E-02			1.3000E+00	4.9389E+00
1963		2.6047E-02			2.7000E-01	4.5831E+00
1964		2.2838E-02			1.1900E+00	5.1327E+00
1965	2.2000E-01	2.2602E-01			2.0100E+00	6.3823E+00
1966		1.9817E-01			4.4000E+00	9.7159E+00
1967		1.7375E-01			4.5000E-01	8.9400E+00
1968		1.5234E-01	3.7000E-01	3.4645E-01	1.0000E-01	7.9321E+00
1969		1.3357E-01	6.7000E-01	9.3113E-01		6.9547E+00
1970		1.1711E-01	8.0000E-02	8.9130E-01		6.0977E+00
1971		1.0268E-01	3.0000E-02	8.0957E-01		5.3464E+00
1972		9.0030E-02		7.0981E-01		4.6876E+00
1973		7.8936E-02	3.0000E-03	6.2516E-01		4.1100E+00
1974		6.9209E-02	1.0000E-03	5.4906E-01		3.6035E+00
1975		6.0681E-02	1.0000E-03	4.8234E-01		3.1595E+00
1976		5.3204E-02	1.0000E-03	4.2384E-01		2.7702E+00
1977		4.6648E-02	2.6000E-05	3.7164E-01		2.4288E+00
1978		4.0900E-02	1.2200E-04	3.2596E-01		2.1296E+00
1979		3.5861E-02		2.8580E-01		1.8671E+00
1980		3.1442E-02	1.7050E-03	2.5218E-01		1.6371E+00
1981		2.7567E-02	1.9250E-03	2.2291E-01	1.1400E-04	1.4355E+00
1982		2.4171E-02	6.6410E-03	2.0166E-01	1.1100E-04	1.2587E+00
1983		2.1192E-02	2.7550E-03	1.7939E-01	1.8520E-03	1.1053E+00
1984		1.8581E-02	3.4500E-04	1.5761E-01	3.1200E-04	9.6942E-01
1985		1.6291E-02	1.0010E-02	1.4756E-01		8.4997E-01
1986		1.4284E-02	3.2340E-03	1.3241E-01		7.4523E-01
1987		1.2524E-02	1.2480E-03	1.1726E-01		6.5340E-01
1988		1.0981E-02	2.1100E-04	1.0301E-01		5.7289E-01
TOTAL	2.6620E-01		1.1842E+00		1.4940E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955					5.6000E-02	5.2436E-02
1956					1.3000E-01	1.6770E-01
1957					3.7600E-01	4.9911E-01
1958	6.2000E-02	5.8055E-02			1.7800E-01	6.0428E-01
1959	8.0000E-03	5.8392E-02			2.4000E-01	7.5455E-01
1960	1.1000E-02	6.1497E-02			1.0100E+00	1.6073E+00
1961	4.0000E-05	5.3957E-02	5.2600E-02	4.9253E-02	8.2000E-01	2.1771E+00
1962	6.0000E-05	4.7364E-02	4.2200E-02	8.2698E-02	6.0300E+00	7.5551E+00
1963	2.8600E-01	3.0933E-01	3.0800E-01	3.6091E-01	1.1300E+00	7.6822E+00
1964	1.0000E-02	2.8058E-01	1.5800E+00	1.7959E+00	7.5000E-01	7.4379E+00
1965	1.0000E-03	2.4694E-01	1.3300E+00	2.8200E+00	2.8000E-01	6.7836E+00
1966		2.1651E-01	2.4000E-01	2.6972E+00	2.4000E-01	6.1724E+00
1967	4.0000E-02	2.2729E-01	1.2000E-01	2.4772E+00		5.4119E+00
1968	1.4400E+00	1.5476E+00	4.0000E-02	2.2094E+00	1.6000E-01	4.8948E+00
1969	1.0000E-03	1.3579E+00	4.9000E-02	1.9831E+00	2.0000E-01	4.4789E+00
1970		1.1906E+00	2.0000E-03	1.7406E+00		3.9270E+00
1971		1.0439E+00	1.0000E-02	1.5355E+00	2.1270E-02	3.4631E+00
1972		9.1523E-01	1.0000E-02	1.3556E+00	1.2000E-01	3.1487E+00
1973		8.0246E-01		1.1886E+00	2.0000E-03	2.7626E+00
1974		7.0358E-01		1.0421E+00	1.0000E-03	2.4231E+00
1975		6.1688E-01	7.0000E-03	9.2027E-01	1.0000E-03	2.1255E+00
1976		5.4087E-01		8.0688E-01		1.8636E+00
1977		4.7422E-01	2.0700E-04	7.0765E-01	6.0000E-05	1.6340E+00
1978		4.1579E-01	3.4360E-04	6.2077E-01		1.4327E+00
1979		3.6456E-01	1.8100E-04	5.4445E-01		1.2561E+00
1980		3.1963E-01		4.7736E-01	8.3000E-05	1.1014E+00
1981		2.8025E-01		4.1854E-01		9.6570E-01
1982		2.4572E-01		3.6697E-01		8.4671E-01
1983		2.1544E-01		3.2175E-01		7.4238E-01
1984		1.8889E-01		2.8210E-01		6.5090E-01
1985	8.9000E-05	1.6570E-01		2.4734E-01		5.7070E-01
1986	4.8710E-06	1.4529E-01		2.1686E-01		5.0037E-01
1987		1.2738E-01		1.9014E-01		4.3872E-01
1988		1.1169E-01		1.6671E-01		3.8466E-01
TOTAL	1.8592E+00		3.7915E+00		1.1745E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

	<u>P Area</u>		<u>R Area</u>		<u>R Area</u>	
	<u>Purges to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954			6.0000E-02	5.6182E-02		
1955			6.4000E-02	1.0919E-01		
1956			3.0400E-01	3.8039E-01		
1957	6.4000E-02	5.9927E-02	8.5160E-01	1.1309E+00	2.3000E+00	2.1536E+00
1958	2.0000E-03	5.4416E-02	5.4000E-01	1.4972E+00	8.4400E-01	2.6786E+00
1959	1.1400E-01	1.5446E-01	5.6600E-01	1.8427E+00	1.8000E-02	2.3654E+00
1960	1.2200E-01	2.4966E-01	9.7000E-01	2.5239E+00		2.0739E+00
1961	6.6200E-02	2.8088E-01	1.8500E+00	3.9452E+00		1.8183E+00
1962	2.9800E-02	2.7418E-01	2.0200E+00	5.3505E+00	1.6000E-03	1.5958E+00
1963	6.0000E-02	2.9657E-01	2.3800E+00	6.9198E+00	2.0000E-03	1.4010E+00
1964	8.8000E-01	1.0840E+00	8.5000E-01	6.8630E+00		1.2284E+00
1965	3.0000E-03	9.5327E-01		6.0174E+00		1.0770E+00
1966	3.0000E-03	8.3861E-01		5.2759E+00		9.4431E-01
1967	5.0000E-03	7.3996E-01		4.6258E+00		8.2795E-01
1968	3.0000E-02	6.7687E-01		4.0558E+00		7.2593E-01
1969		5.9347E-01		3.5560E+00		6.3648E-01
1970		5.2034E-01		3.1179E+00		5.5806E-01
1971		4.5622E-01		2.7337E+00		4.8929E-01
1972		4.0001E-01		2.3968E+00		4.2900E-01
1973		3.5072E-01		2.1015E+00		3.7614E-01
1974		3.0750E-01		1.8425E+00		3.2979E-01
1975		2.6961E-01		1.6155E+00		2.8915E-01
1976		2.3639E-01		1.4164E+00		2.5352E-01
1977		2.0726E-01		1.2419E+00		2.2228E-01
1978		1.8172E-01		1.0889E+00		1.9489E-01
1979		1.5933E-01		9.5470E-01		1.7088E-01
1980		1.3970E-01		8.3706E-01		1.4982E-01
1981	1.0000E-06	1.2248E-01		7.3392E-01		1.3136E-01
1982		1.0739E-01		6.4349E-01		1.1518E-01
1983		9.4159E-02		5.6419E-01		1.0098E-01
1984	6.5000E-05	8.2618E-02		4.9467E-01		8.8540E-02
1985	3.5500E-04	7.2770E-02		4.3372E-01		7.7630E-02
1986	5.6860E-05	6.3856E-02		3.8028E-01		6.8064E-02
1987	4.8720E-04	5.6444E-02		3.3342E-01		5.9677E-02
1988	1.3080E-05	4.9501E-02		2.9233E-01		5.2324E-02
TOTAL	1.3800E+00		1.0456E+01		3.1656E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Co-60

Central Shops
Liquid to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980	1.5000E-05	1.4045E-05
1981	2.6000E-05	3.6660E-05
1982	4.4900E-04	4.5257E-04
1983	1.7200E-04	5.5786E-04
1984	2.8000E-05	5.1534E-04
1985		4.5184E-04
1986		3.9616E-04
1987		3.4735E-04
1988		3.0455E-04
TOTAL	6.9000E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zn-65

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>H Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	5.0000E-01	2.9786E-01				
1961	2.6100E+00	1.6605E+00				
1962	7.5500E+00	5.0869E+00				
1963	2.4700E+00	3.2766E+00				
1964	1.6300E+00	2.1338E+00	3.0000E-02	1.7871E-02		
1965	3.4700E+00	2.8243E+00	4.0000E-03	8.7249E-03		
1966	3.7800E+00	3.2541E+00		3.0962E-03		
1967	1.1900E+00	1.8637E+00		1.0988E-03		
1968	2.2200E+00	1.9838E+00	1.0000E-02	6.3470E-03		
1969	5.3000E-01	1.0197E+00		2.2524E-03		
1970	5.1000E-01	6.6569E-01		7.9930E-04		
1971	1.7500E+00	1.2787E+00		2.8365E-04		
1972		4.5378E-01		1.0066E-04		
1973		1.6103E-01		3.5721E-05		
1974	1.3700E-01	1.3876E-01		1.2676E-05	7.6000E-01	4.5274E-01
1975	2.0000E-03	5.0433E-02		4.4985E-06	5.6700E-01	4.9843E-01
1976		1.7897E-02		1.5964E-06	4.3600E-01	4.3661E-01
1977		6.3512E-03		5.6651E-07	5.3100E-01	4.7126E-01
1978		2.2539E-03		2.0104E-07	5.3840E-02	1.9931E-01
1979		7.9983E-04			8.0000E-02	1.1839E-01
1980		2.8384E-04			1.4000E-01	1.2541E-01
1981		1.0073E-04			7.4420E-02	8.8838E-02
1982		3.5744E-05			9.1290E-02	8.5908E-02
1983		1.2685E-05			9.4530E-02	8.6799E-02
1984		4.5014E-06			1.0000E-02	3.6760E-02
1985		1.5974E-06			3.0000E-03	1.4832E-02
1986		5.6688E-07			5.1940E-02	3.6205E-02
1987		2.0117E-07			2.0790E-02	2.5233E-02
1988					4.7140E-03	1.1763E-02
TOTAL	2.8349E+01		4.4000E-02		2.9185E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zn-65

	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.0000E+00	5.9571E-01				
1961	2.3000E+00	1.5815E+00				
1962	4.0100E+00	2.9500E+00				
1963	4.7800E+00	3.8944E+00				
1964	2.1800E+00	2.6807E+00				
1965	2.0000E+00	2.1427E+00	2.4000E-01	1.4297E-01		
1966	4.6000E-01	1.0344E+00		5.0736E-02		
1967	1.8200E+00	1.4513E+00		1.8005E-02		
1968	7.7000E-01	9.7371E-01		6.3894E-03	3.6300E+00	2.1624E+00
1969		3.4554E-01		2.2674E-03	5.6000E-01	1.1010E+00
1970		1.2262E-01		8.0464E-04		3.9071E-01
1971		4.3515E-02		2.8554E-04	3.0000E-02	1.5652E-01
1972		1.5442E-02		1.0133E-04		5.5545E-02
1973		5.4801E-03		3.5959E-05		1.9711E-02
1974		1.9447E-03		1.2761E-05		6.9950E-03
1975		6.9012E-04		4.5285E-06		2.4823E-03
1976		2.4490E-04		1.6070E-06	2.0000E-03	2.0723E-03
1977		8.6909E-05		5.7029E-07		7.3541E-04
1978		3.0842E-05		2.0238E-07		2.6098E-04
1979		1.0945E-05				9.2613E-05
1980		3.8840E-06				3.2866E-05
1981		1.3783E-06				1.1663E-05
1982		4.8913E-07			5.4700E-04	3.2999E-04
1983		1.7358E-07				1.1710E-04
1984						4.1557E-05
1985						1.4747E-05
1986						5.2334E-06
1987						1.8572E-06
1988						6.5907E-07
TOTAL	1.9320E+01		2.4000E-01		4.2225E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zn-65

	<u>L Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.1100E+00	6.6124E-01				
1961	6.0100E+00	3.8149E+00				
1962	3.8300E+00	3.6354E+00				
1963	9.4000E-01	1.8501E+00				
1964	6.2100E+00	4.3559E+00			1.0000E-02	5.9571E-03
1965	1.3300E+00	2.3381E+00			9.0000E-02	5.5728E-02
1966	1.8600E+00	1.9377E+00			1.0000E-02	2.5733E-02
1967	3.1600E+00	2.5701E+00	1.2000E-01	7.1485E-02		9.1320E-03
1968	7.4000E-01	1.3529E+00		2.5368E-02		3.2407E-03
1969		4.8010E-01		9.0024E-03		1.1500E-03
1970		1.7037E-01		3.1947E-03		4.0811E-04
1971		6.0460E-02		1.1337E-03		1.4483E-04
1972		2.1456E-02		4.0232E-04		5.1395E-05
1973		7.6140E-03		1.4277E-04		1.8239E-05
1974		2.7020E-03		5.0665E-05		6.4723E-06
1975		9.5886E-04		1.7980E-05		2.2968E-06
1976		3.4027E-04		6.3805E-06		8.1509E-07
1977		1.2075E-04		2.2642E-06		2.8925E-07
1978		4.2851E-05		8.0352E-07		1.0265E-07
1979		1.5207E-05		2.8514E-07		
1980		5.3964E-06		1.0119E-07		
1981		1.9150E-06				
1982		6.7959E-07				
1983		2.4117E-07				
1984						
1985						
1986						
1987						
1988						
TOTAL	2.5190E+01		1.2000E-01		1.1000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

Zn-65

	<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>		<u>R Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	6.7000E-01	3.9913E-01			1.0100E+00	6.0167E-01
1961	2.6600E+00	1.7262E+00			7.0000E+00	4.3835E+00
1962	6.7000E+00	4.6038E+00			9.8300E+00	7.4114E+00
1963	9.6700E+00	7.3943E+00			1.5540E+01	1.1887E+01
1964	5.6800E+00	6.0077E+00			4.2300E+00	6.7384E+00
1965	2.1400E+00	3.4068E+00				2.3913E+00
1966	1.4200E+00	2.0549E+00				8.4859E-01
1967	1.1500E+00	1.4143E+00				3.0114E-01
1968	7.8000E-01	9.6654E-01	1.8000E-01	1.0723E-01		1.0687E-01
1969	1.0100E+00	9.4467E-01		3.8052E-02		3.7923E-02
1970		3.3523E-01		1.3504E-02		1.3458E-02
1971	1.1600E-03	1.1966E-01		4.7920E-03		4.7758E-03
1972		4.2463E-02		1.7006E-03		1.6948E-03
1973		1.5069E-02		6.0348E-04		6.0144E-04
1974		5.3475E-03		2.1416E-04		2.1343E-04
1975		1.8977E-03		7.5998E-05		7.5741E-05
1976		6.7342E-04		2.6970E-05		2.6878E-05
1977		2.3898E-04		9.5707E-06		9.5384E-06
1978		8.4807E-05		3.3964E-06		3.3849E-06
1979		3.0095E-05		1.2053E-06		1.2012E-06
1980		1.0680E-05		4.2772E-07		4.2627E-07
1981		3.7900E-06		1.5178E-07		1.5127E-07
1982		1.3450E-06				
1983		4.7729E-07				
1984		1.6938E-07				
1985						
1986						
1987						
1988						
TOTAL	3.1881E+01		1.8000E-01		3.7610E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Se-75

Combined F & H Area
Atmospheric

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983	5.5000E-05	1.9112E-05
1984	4.2000E-05	1.6903E-05
1985	9.3000E-06	5.2728E-06
1986	2.1000E-05	7.9341E-06
1987	4.0000E-05	1.4858E-05
1988	2.0000E-05	8.7441E-06
TOTAL	1.8730E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Br-82

K Area
Atmospheric

<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954	
1955	
1956	
1957	
1958	
1959	
1960	
1961	
1962	
1963	
1964	
1965	
1966	
1967	
1968	
1969	
1970	
1971	
1972	
1973	
1974	
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	
1984	4.0000E-02
1985	
1986	
1987	
1988	
TOTAL	4.0000E-02

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-85

Combined F & H Area
Atmospheric

	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	6.4010E+05	6.1974E+05
1972	6.0490E+05	1.1666E+06
1973	7.6500E+05	1.8342E+06
1974	5.0000E+05	2.2035E+06
1975	5.2480E+05	2.5736E+06
1976	7.3600E+05	3.1250E+06
1977	4.4280E+05	3.3581E+06
1978	5.3260E+05	3.6635E+06
1979	4.8250E+05	3.9012E+06
1980	5.8320E+05	4.2216E+06
1981	8.3850E+05	4.7691E+06
1982	5.1070E+05	4.9649E+06
1983	5.6570E+05	5.2018E+06
1984	8.4320E+05	5.6924E+06
1985	6.5000E+05	5.9653E+06
1986	7.1000E+05	6.2792E+06
1987	3.9500E+05	6.2685E+06
1988	2.4000E+05	6.1084E+06
TOTAL	1.0565E+07	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-85m

	<u>C Area</u> <u>Atmospheric</u>		<u>K Area</u> <u>Atmospheric</u>		<u>L Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	2.0000E+01		2.0000E+01		2.0000E+01	
1956	6.0000E+01		6.0000E+01		6.0000E+01	
1957	1.4000E+02		1.4000E+02		1.4000E+02	
1958	3.6000E+02		3.6000E+02		3.6000E+02	
1959	6.8000E+02		6.8000E+02		6.8000E+02	
1960	9.2000E+02		9.2000E+02		9.2000E+02	
1961	4.8000E+02		4.8000E+02		4.8000E+02	
1962	3.6000E+02		3.6000E+02		3.6000E+02	
1963	1.3600E+03		1.3600E+03		1.3600E+03	
1964	1.8000E+02		1.8000E+02		1.8000E+02	
1965	5.0000E+02		5.0000E+02		5.0000E+02	
1966	6.0000E+02		6.0000E+02		6.0000E+02	
1967	8.3000E+03		8.3000E+03		8.3000E+03	
1968	3.1500E+03		3.1500E+03		3.1500E+03	
1969	1.8000E+03		1.8000E+03			
1970	8.0000E+02		8.0000E+02			
1971	7.2000E+02		8.4000E+02			
1972	1.1600E+03		4.5100E+03			
1973	1.5880E+03		3.0560E+03			
1974	4.5000E+02		8.8600E+02			
1975	8.5000E+01		2.1600E+02			
1976	1.2500E+02		8.8000E+01			
1977	1.8300E+02		4.9000E+01			
1978	1.1600E+02		1.0700E+02			
1979	2.2700E+02		1.0000E+02			
1980	1.6860E+03		1.9300E+02			
1981	2.7000E+02		3.3000E+02			
1982	2.2200E+02		2.6000E+02			
1983	2.1500E+02		1.8900E+02			
1984	6.5000E+01		6.3000E+01			
1985	3.3000E+01		1.9300E+02			
1986			3.5400E+02		1.7800E+02	
1987			2.0000E+00		6.7000E+01	
1988			7.8000E+01		1.2000E+01	
TOTAL	2.6855E+04		3.1224E+04		1.7367E+04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-85m

	<u>P Area</u> <u>Atmospheric</u>		<u>R Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954	2.0000E+01		2.0000E+01	
1955	2.0000E+01		2.0000E+01	
1956	6.0000E+01		6.0000E+01	
1957	1.4000E+02		1.4000E+02	
1958	3.6000E+02		3.6000E+02	
1959	6.8000E+02		6.8000E+02	
1960	9.2000E+02		9.2000E+02	
1961	4.8000E+02		4.8000E+02	
1962	3.6000E+02		3.6000E+02	
1963	1.3600E+03		1.3600E+03	
1964	1.8000E+02		1.8000E+02	
1965	5.0000E+02			
1966	6.0000E+02			
1967	8.3000E+03			
1968	3.1500E+03			
1969	1.8000E+03			
1970	8.0000E+02			
1971	1.5000E+03			
1972	1.6600E+03			
1973	1.8800E+03			
1974	9.0000E+00			
1975	6.7000E+01			
1976	1.7000E+02			
1977	6.0700E+02			
1978	6.6300E+02			
1979	1.4850E+03			
1980	1.3260E+03			
1981	6.9900E+02			
1982	7.8500E+02			
1983	8.2200E+02			
1984	1.0510E+03			
1985	1.0550E+03			
1986	1.4590E+03			
1987	1.3880E+03			
1988	9.3100E+02			
TOTAL	3.7270E+04		4.5800E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-87

	<u>C Area</u> <u>Atmospheric</u>		<u>K Area</u> <u>Atmospheric</u>		<u>L Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972	2.0000E+01		2.1700E+03			
1973	2.6100E+02		1.4280E+03			
1974	2.6000E+01		3.0900E+02			
1975	7.2000E+01		2.7300E+02			
1976	1.9100E+02		1.1500E+02			
1977	2.2300E+02		6.4000E+01			
1978	1.8500E+02		1.4800E+02			
1979	3.2800E+02		1.1400E+02			
1980	1.7000E+03		1.6800E+02			
1981	1.8700E+02		4.2700E+02			
1982	1.5200E+02		3.0000E+02			
1983	1.4000E+02		2.0200E+02			
1984	3.6000E+01		7.7000E+01			
1985	1.2000E+01		5.1500E+02			
1986			5.5500E+02		2.0200E+02	
1987			2.0700E+02		8.6000E+01	
1988			1.2200E+02		7.1100E+02	
TOTAL	3.5330E+03		7.1940E+03		9.9900E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-87

P Area
Atmospheric

	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	2.8000E+02	
1973	3.4400E+02	
1974	3.0300E+02	
1975	8.2700E+02	
1976	1.1600E+02	
1977	3.1500E+02	
1978	2.2200E+02	
1979	1.0660E+03	
1980	9.2300E+02	
1981	2.5500E+02	
1982	2.3500E+02	
1983	4.6000E+02	
1984	4.8600E+02	
1985	5.2000E+02	
1986	6.2700E+02	
1987	7.0700E+02	
1988	5.2700E+02	
TOTAL	8.2130E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-88

	<u>C Area</u> <u>Atmospheric</u>		<u>K Area</u> <u>Atmospheric</u>		<u>L Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	2.0000E+01		2.0000E+01		2.0000E+01	
1956	4.0000E+01		4.0000E+01		4.0000E+01	
1957	1.2000E+02		1.2000E+02		1.2000E+02	
1958	3.4000E+02		3.4000E+02		3.4000E+02	
1959	6.4000E+02		6.4000E+02		6.4000E+02	
1960	9.6000E+02		9.6000E+02		9.6000E+02	
1961	4.6000E+02		4.6000E+02		4.6000E+02	
1962	3.4000E+02		3.4000E+02		3.4000E+02	
1963	1.2600E+03		1.2600E+03		1.2600E+03	
1964	1.0000E+02		1.0000E+02		1.0000E+02	
1965	3.0000E+02		3.0000E+02		3.0000E+02	
1966	3.7500E+02		3.7500E+02		3.7500E+02	
1967	5.1000E+03		5.1000E+03		5.1000E+03	
1968	2.0250E+03		2.0250E+03		2.0250E+03	
1969	1.1600E+03		1.1700E+03			
1970	5.3300E+02		5.3300E+02			
1971	3.6000E+02		2.7000E+02			
1972	5.8000E+02		2.7700E+03			
1973	1.5330E+03		3.7560E+03			
1974	4.0500E+02		9.4700E+02			
1975	1.5800E+02		4.4500E+02			
1976	2.3100E+02		1.4800E+02			
1977	3.2600E+02		7.2000E+01			
1978	3.0500E+02		1.8900E+02			
1979	5.7700E+02		1.5300E+02			
1980	2.3870E+03		2.6300E+02			
1981	4.0600E+02		6.0700E+02			
1982	3.0500E+02		5.0500E+02			
1983	3.0300E+02		3.5000E+02			
1984	1.0300E+02		8.6000E+01			
1985	4.2000E+01		3.5400E+02			
1986			6.0800E+02		3.9000E+02	
1987			4.0500E+02		1.4600E+02	
1988			4.5200E+02		6.0000E+00	
TOTAL	2.1794E+04		2.6163E+04		1.2622E+04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Kr-88

	<u>P Area</u> <u>Atmospheric</u>		<u>R Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954	2.0000E+01		2.0000E+01	
1955	2.0000E+01		2.0000E+01	
1956	4.0000E+01		4.0000E+01	
1957	1.2000E+02		1.2000E+02	
1958	3.4000E+02		3.4000E+02	
1959	6.4000E+02		6.4000E+02	
1960	9.6000E+02		9.6000E+02	
1961	4.6000E+02		4.6000E+02	
1962	3.4000E+02		3.4000E+02	
1963	1.2600E+03		1.2600E+03	
1964	1.0000E+02		1.0000E+02	
1965	3.0000E+02			
1966	3.7500E+02			
1967	5.1000E+03			
1968	2.0250E+03			
1969	1.1700E+03			
1970	5.3400E+02			
1971	1.1000E+03			
1972	8.6000E+02			
1973	2.0930E+03			
1974	5.6000E+01			
1975	2.5500E+02			
1976	1.2900E+02			
1977	2.7300E+02			
1978	3.4550E+02			
1979	1.5230E+03			
1980	1.3280E+03			
1981	4.6300E+02			
1982	3.8600E+02			
1983	6.3200E+02			
1984	7.3400E+02			
1985	8.8200E+02			
1986	1.4320E+03			
1987	1.4570E+03			
1988	1.1480E+03			
TOTAL	2.8901E+04		4.3000E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-89

	<u>C Area</u>		<u>C Area</u>		<u>F Area</u>	
	<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>		<u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961	1.3100E+00	1.0710E-01				
1962		7.1590E-04				
1963	3.2000E-01	2.6167E-02			1.5200E+00	1.2427E-01
1964	6.9000E-01	5.6587E-02			7.1000E-01	5.8878E-02
1965	7.9000E-01	6.4966E-02			5.1000E-01	4.2090E-02
1966	9.6000E-01	7.8921E-02			4.5000E-01	3.7072E-02
1967	1.9400E+00	1.5914E-01			4.0000E-01	3.2951E-02
1968	2.1200E+00	1.7439E-01			2.7000E-01	2.2295E-02
1969	7.7000E-01	6.4119E-02	3.0000E-02	2.4527E-03	1.9000E-01	1.5683E-02
1970	2.5900E+00	2.1218E-01		1.6395E-05	1.6000E-01	1.3186E-02
1971	1.2400E+00	1.0280E-01		1.0959E-07	3.3300E-01	2.7313E-02
1972	8.0000E-02	7.2277E-03			2.0000E-02	1.8177E-03
1973	7.6000E-02	6.2619E-03			9.0000E-02	7.3703E-03
1974	1.4200E-01	1.1651E-02			3.0000E-02	2.5020E-03
1975	7.0000E-03	6.5018E-04			4.7000E-02	3.8593E-03
1976	1.0000E-03	8.6103E-05			1.8000E-02	1.4974E-03
1977	1.0990E-03	9.0427E-05			3.0000E-03	2.5528E-04
1978		6.0444E-07			5.0000E-03	4.1049E-04
1979			1.5600E-04	1.2754E-05	9.0000E-03	7.3856E-04
1980					3.0000E-03	2.5021E-04
1981					8.0000E-03	6.5573E-04
1982			1.1650E-04	9.5247E-06	1.9000E-02	1.5578E-03
1983			5.5200E-04	4.5194E-05	6.0000E-03	5.0096E-04
1984			1.4900E-04	1.2484E-05	1.5000E-02	1.2297E-03
1985			3.6000E-05	3.0267E-06	1.1000E-02	9.0755E-04
1986			5.2810E-05	4.3378E-06	5.0000E-03	4.1485E-04
1987					3.0000E-03	2.4804E-04
1988					4.0000E-03	3.2869E-04
TOTAL	1.3037E+01		3.1062E-02		4.8390E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-89

	<u>H Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961			6.3600E+00	5.1998E-01		
1962			1.9000E+00	1.5881E-01		
1963	4.1700E+00	3.4093E-01	9.7000E-01	8.0366E-02		
1964	6.0000E-01	5.1333E-02	7.0000E-01	5.7767E-02		
1965	7.3000E-01	6.0026E-02	3.4700E+00	2.8408E-01		
1966	2.1000E-01	1.7570E-02	5.3000E-01	4.5230E-02		
1967	3.3000E-01	2.7097E-02	4.7100E+00	3.8538E-01		
1968	1.9000E-01	1.5715E-02	2.3880E+01	1.9549E+00		
1969	2.9000E-01	2.3815E-02	1.3100E+00	1.2017E-01	4.5610E+01	3.7290E+00
1970	2.3000E-01	1.8963E-02	9.7000E-01	8.0108E-02	3.8440E+01	3.1677E+00
1971	2.6600E+00	2.1760E-01	2.8000E-01	2.3428E-02	4.8000E-01	6.0417E-02
1972	2.0300E+00	1.6742E-01	2.4000E-01	1.9778E-02	2.8000E-01	2.3296E-02
1973	1.7500E+00	1.4419E-01	3.8000E-02	3.2390E-03	2.0000E-02	1.7909E-03
1974	2.6000E-01	2.2221E-02		2.1650E-05	1.6000E-02	1.3201E-03
1975	3.5000E-01	2.8764E-02	6.0000E-03	4.9069E-04	1.0000E-03	9.0581E-05
1976	1.6200E-01	1.3437E-02		3.2799E-06	1.3000E-02	1.0635E-03
1977	5.8000E-02	4.8317E-03	2.2500E-01	1.8395E-02	5.6200E-04	5.3056E-05
1978	3.4600E-01	2.8320E-02		1.2296E-04	3.2020E-04	2.6533E-05
1979	7.4000E-02	6.2393E-03		8.2189E-07		1.7736E-07
1980	4.2000E-02	3.4755E-03				
1981	1.1300E-01	9.2618E-03				
1982	4.5000E-02	3.7410E-03				
1983	8.0000E-02	6.5656E-03			1.0130E-05	8.2820E-07
1984		4.3886E-05			2.1400E-04	1.7502E-05
1985		2.9335E-07			1.3900E-04	1.1481E-05
1986	5.0000E-03	4.0879E-04			4.1800E-04	3.4251E-05
1987	4.0000E-03	3.2976E-04			7.6910E-04	6.3109E-05
1988	2.2000E-02	1.8009E-03			1.5590E-03	1.2788E-04
TOTAL	1.4751E+01		4.5589E+01		8.4864E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-89

	<u>L Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961	2.8000E+00	2.2892E-01				
1962	2.1100E+01	1.7260E+00				
1963	6.2900E+00	5.2579E-01				
1964	5.7940E+01	4.7405E+00				
1965	2.6200E+00	2.4589E-01				
1966	4.0300E+00	3.3113E-01				
1967	4.3700E+00	3.5949E-01				
1968	6.6000E-01	5.6363E-02				
1969	2.3000E-01	1.9181E-02			1.0000E-03	8.1757E-05
1970	6.0000E-02	5.0336E-03			1.0000E-03	8.2304E-05
1971		3.3646E-05				5.5014E-07
1972		2.2490E-07				
1973						
1974						
1975					2.0000E-03	1.6351E-04
1976						1.0930E-06
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985			3.0000E-06	2.4527E-07		
1986						
1987						
1988						
TOTAL	1.0010E+02		3.0000E-06		4.0000E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-89

	P Area <u>Liquid to Stream</u>		P Area <u>Purges to Seepage Basins</u>		R Area <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961	5.0000E-02	4.0879E-03			8.5000E-01	6.9494E-02
1962	1.0080E+01	8.2414E-01			1.2000E+00	9.8573E-02
1963	4.1900E+00	3.4807E-01			2.1940E+01	1.7944E+00
1964	8.2000E-01	6.9368E-02			1.8400E+00	1.6243E-01
1965		4.6367E-04				1.0857E-03
1966	5.7000E-01	4.6605E-02				7.2572E-06
1967	1.9800E+00	1.6219E-01				
1968	2.3800E+00	1.9567E-01				
1969	6.5140E+00	5.3388E-01				
1970	4.7000E+00	3.8783E-01				
1971	3.8050E-01	3.3701E-02				
1972	1.3000E-01	1.0854E-02				
1973	4.3000E-02	3.5881E-03				
1974	4.0000E-03	3.5101E-04				
1975	1.0000E-03	8.4104E-05				
1976	3.0000E-03	2.4583E-04				
1977	1.6370E-03	1.3548E-04				
1978		9.0558E-07				
1979						
1980						
1981						
1982			3.3230E-03	2.7168E-04		
1983			7.1190E-04	6.0019E-05		
1984			1.0810E-03	8.8781E-05		
1985			2.5760E-03	2.1120E-04		
1986			2.1330E-04	1.8851E-05		
1987			1.1930E-03	9.7663E-05		
1988			9.9600E-06	1.4671E-06		
TOTAL	3.1847E+01		9.1081E-03		2.5830E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-89, 90

	A Area <u>Liquid to Seepage Basins</u>		D Area <u>Liquid to Stream</u>		F Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955					1.3300E-01	1.3140E-01
1956					3.1800E-02	1.5967E-01
1957					8.1200E-03	1.6387E-01
1958					6.8000E-03	1.6666E-01
1959					2.6100E-01	4.2052E-01
1960					4.7000E-02	4.5689E-01
1961					2.7000E-02	4.7262E-01
1962					1.2000E-02	4.7316E-01
1963					1.9000E-02	4.8060E-01
1964					2.6000E-02	4.9477E-01
1965	4.6300E-02	4.5742E-02			1.1700E-02	4.9448E-01
1966	7.1000E-03	5.1661E-02			6.6000E-03	4.8916E-01
1967	1.8100E-02	6.8306E-02			5.5000E-03	4.8288E-01
1968	1.0700E-02	7.7241E-02	2.0000E-02	1.9759E-02	6.3000E-03	4.7754E-01
1969	6.8000E-03	8.2109E-02	1.0000E-02	2.9165E-02	7.0000E-03	4.7302E-01
1970	8.4300E-03	8.8471E-02	8.0000E-03	3.6371E-02	1.3600E-02	4.7513E-01
1971	1.3500E-03	8.7686E-02	1.6000E-02	5.1307E-02	9.8600E-03	4.7349E-01
1972	4.6000E-04	8.6041E-02		5.0078E-02	4.0700E-03	4.6617E-01
1973	1.1100E-02	9.4947E-02	6.2000E-04	4.9491E-02	3.2800E-03	4.5825E-01
1974	7.8000E-04	9.3443E-02	3.8000E-04	4.8681E-02	8.1800E-03	4.5536E-01
1975	6.8000E-04	9.1877E-02	4.9300E-04	4.8003E-02	2.6940E-03	4.4711E-01
1976	2.6200E-04	8.9936E-02	2.7650E-03	4.9585E-02	2.4790E-03	4.3885E-01
1977	6.6000E-05	8.7847E-02	1.4900E-04	4.8544E-02	1.9790E-03	4.3030E-01
1978	2.2440E-04	8.5965E-02	1.8000E-04	4.7560E-02	2.9880E-03	4.2295E-01
1979	8.6000E-05	8.3991E-02	8.9000E-05	4.6509E-02	2.3020E-03	4.1509E-01
1980	9.3000E-05	8.2071E-02	9.9000E-05	4.5493E-02	2.3770E-03	4.0750E-01
1981	1.2600E-04	8.0230E-02		4.4403E-02	1.5730E-03	3.9929E-01
1982		7.8309E-02		4.3340E-02	1.9270E-03	3.9163E-01
1983		7.6434E-02		4.2302E-02	2.4100E-03	3.8464E-01
1984		7.4603E-02		4.1289E-02	3.3210E-03	3.7871E-01
1985		7.2816E-02		4.0300E-02	1.6050E-03	3.7122E-01
1986		7.1073E-02		3.9335E-02	1.8300E-04	3.6251E-01
1987		6.9370E-02		3.8393E-02	2.0100E-04	3.5403E-01
1988		6.7709E-02		3.7473E-02	8.9000E-04	3.4643E-01
TOTAL	1.1266E-01		5.8775E-02		6.7474E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-89, 90

	<u>H Area</u>		<u>Central Shops</u>	
	<u>Atmospheric</u>		<u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954				
1955	2.9280E-01	2.8927E-01		
1956	2.5000E-02	3.0704E-01		
1957	1.3080E-02	3.1261E-01		
1958	1.6800E-02	3.2172E-01		
1959	5.3000E-02	3.6638E-01		
1960	6.0000E-03	3.6953E-01		
1961	1.4000E-02	3.6866E-01		
1962	2.1000E-02	3.8058E-01		
1963	1.6400E-02	3.8767E-01		
1964	1.3500E-02	3.9172E-01		
1965	7.8000E-03	3.9004E-01		
1966	1.4600E-02	3.9513E-01		
1967	8.6000E-03	3.9416E-01		
1968	2.7700E-02	4.1209E-01		
1969	1.0840E-01	5.0931E-01		
1970	4.2400E-02	5.3900E-01		
1971	2.6340E-02	5.5212E-01		
1972	1.2970E-01	6.6703E-01		
1973	1.0760E-02	6.6169E-01		
1974	2.9300E-03	6.4874E-01		
1975	2.3320E-03	6.3550E-01		
1976	2.1240E-03	6.2238E-01		
1977	2.1560E-03	6.0961E-01		
1978	8.4400E-04	5.9584E-01		
1979	1.5900E-04	5.8173E-01	4.0000E-06	3.9518E-06
1980	2.0200E-04	5.6800E-01		3.8572E-06
1981	1.3850E-03	5.5576E-01		3.7648E-06
1982	3.2900E-04	5.4278E-01		3.6746E-06
1983	3.1700E-04	5.3009E-01		3.5866E-06
1984	1.9900E-04	5.1760E-01		3.5007E-06
1985	1.6700E-04	5.0536E-01		3.4169E-06
1986	7.3700E-04	4.9399E-01		3.3351E-06
1987	4.1200E-04	4.8257E-01		3.2552E-06
1988	1.5200E-04	4.7116E-01		3.1772E-06
TOTAL	8.6232E-01		4.0000E-06	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sr-90

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>F Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	1.6900E-02	1.6696E-02				
1956	1.5600E-02	3.1709E-02				
1957	2.8600E-02	5.9205E-02				
1958	5.3300E-02	1.1044E-01				
1959	6.0060E-01	7.0116E-01	1.9110E-01	1.8880E-01		
1960	3.1200E+00	3.7668E+00	8.2550E-02	2.6583E-01		
1961	6.3000E-01	4.2990E+00	2.6000E-02	2.8515E-01		
1962	5.4000E-01	4.7295E+00	5.0700E-03	2.8333E-01		
1963	8.2000E-01	5.4264E+00	6.3700E-02	3.3948E-01		
1964	3.5000E-01	5.6422E+00	2.0000E-02	3.5111E-01		
1965	2.8000E-01	5.7837E+00	8.0000E-03	3.5060E-01		
1966	2.9000E-01	5.9317E+00	2.0000E-02	3.6197E-01		
1967	5.6000E-01	6.3429E+00	2.0000E-03	3.5527E-01		
1968	8.7000E-01	7.0505E+00	3.0000E-02	3.7640E-01		
1969	8.0000E-01	7.6720E+00		3.6739E-01		
1970	1.5200E+00	8.9900E+00		3.5859E-01	1.8000E-02	1.7783E-02
1971	7.8000E-01	9.5453E+00		3.5000E-01	7.6000E-02	9.2442E-02
1972	4.0000E-02	9.3562E+00		3.4162E-01	1.0000E-02	1.0011E-01
1973	5.0000E-03	9.1371E+00		3.3344E-01	1.7870E-02	1.1536E-01
1974	7.9000E-02	8.9963E+00		3.2545E-01	8.8400E-03	1.2134E-01
1975		8.7809E+00		3.1766E-01	5.1500E-03	1.2352E-01
1976	1.0000E-03	8.5716E+00		3.1005E-01	5.5200E-03	1.2601E-01
1977	1.2310E-03	8.3675E+00		3.0263E-01	3.9500E-03	1.2690E-01
1978	1.8410E-05	8.1671E+00		2.9530E-01	4.9600E-03	1.2876E-01
1979		7.9715E+00	8.7000E-04	2.8917E-01	2.9400E-03	1.2858E-01
1980		7.7806E+00		2.8224E-01	6.1700E-03	1.3160E-01
1981	1.6000E-05	7.5943E+00		2.7548E-01	3.9210E-02	1.6718E-01
1982		7.4124E+00	4.1600E-04	2.6929E-01	2.1610E-02	1.8453E-01
1983		7.2349E+00	2.4580E-03	2.6527E-01	5.7600E-03	1.8580E-01
1984		7.0617E+00	2.1100E-04	2.5913E-01	1.1760E-02	1.9297E-01
1985		6.8925E+00	5.3000E-05	2.5298E-01	1.3890E-02	2.0207E-01
1986		6.7275E+00	1.0330E-05	2.4693E-01	1.1300E-02	2.0839E-01
1987		6.5664E+00		2.4101E-01	8.0660E-03	2.1137E-01
1988		6.4091E+00		2.3524E-01	1.3080E-02	2.1923E-01
TOTAL	1.1401E+01		4.5244E-01		2.8408E-01	

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	<u>F Area</u>		<u>F-Area Migration</u>		<u>H Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Seepage Basins to Stream</u>		<u>Liquid to Stream</u>	
	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>
1954						
1955	2.1000E-01	2.0747E-01				
1956	6.8400E+00	6.9601E+00				
1957	5.8900E+00	1.2612E+01				
1958	2.6000E+00	1.4879E+01				
1959	2.3000E+00	1.6795E+01				
1960	4.4000E+00	2.0740E+01				
1961	1.9300E+00	2.2150E+01				
1962	2.5800E+00	2.4168E+01				
1963	3.0600E+00	2.6613E+01				
1964	1.6900E+00	2.7645E+01				
1965	1.8600E+00	2.8820E+01				
1966	9.6000E-01	2.9079E+01				
1967	7.3000E-01	2.9104E+01				
1968	1.0300E+00	2.9424E+01	3.9300E-01	3.8827E-01		
1969	9.9000E-01	2.9698E+01	4.4000E-01	8.1367E-01		
1970	1.9900E+00	3.0952E+01	4.4500E-01	1.2338E+00	3.8000E-02	3.7542E-02
1971	8.1000E-01	3.1011E+01	1.5920E+00	2.7771E+00	2.6000E-02	6.2330E-02
1972	4.4000E-01	3.0703E+01	1.1250E+00	3.8220E+00	3.4000E-02	9.4428E-02
1973	9.0000E-02	3.0057E+01	1.6060E+00	5.3171E+00	3.1110E-02	1.2290E-01
1974	6.0000E-02	2.9396E+01	1.1980E+00	6.3734E+00	1.3410E-02	1.3321E-01
1975	1.1500E-01	2.8806E+01	1.0600E+00	7.2680E+00	7.5400E-03	1.3747E-01
1976	2.2000E-02	2.8138E+01	8.9000E-01	7.9732E+00	8.1700E-03	1.4224E-01
1977	6.5000E-02	2.7528E+01	6.5000E-01	8.4244E+00	7.3900E-03	1.4614E-01
1978	5.2000E-02	2.6920E+01	4.5000E-01	8.6672E+00	1.0770E-02	1.5328E-01
1979	6.0000E-02	2.6335E+01	4.4000E-01	8.8944E+00	7.9400E-03	1.5745E-01
1980	3.2000E-02	2.5736E+01	3.8000E-01	9.0568E+00	2.3000E-03	1.5595E-01
1981	2.5800E-01	2.5374E+01	2.4790E-01	9.0848E+00	1.1500E-03	1.5336E-01
1982	8.1000E-02	2.4847E+01	2.1000E-01	9.0747E+00	3.7500E-03	1.5339E-01
1983	2.3000E-02	2.4274E+01	2.4370E-01	9.0981E+00	4.1500E-03	1.5381E-01
1984	5.8000E-02	2.3750E+01	2.0000E-01	9.0778E+00	9.0200E-04	1.5102E-01
1985	1.0500E-01	2.3285E+01	1.1000E-01	8.9691E+00	2.3140E-03	1.4969E-01
1986	7.0000E-02	2.2797E+01	1.6000E-01	8.9124E+00	2.6000E-03	1.4868E-01
1987	2.6000E-02	2.2276E+01	1.9100E-01	8.8877E+00	1.8010E-03	1.4689E-01
1988	8.0000E-03	2.1751E+01	1.1900E-01	8.7924E+00	1.0380E-03	1.4440E-01
TOTAL	4.1435E+01		1.2151E+01		2.0433E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
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	<u>H Area</u>		<u>H-Area Migration</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Seepage Basins to Stream</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	4.6000E-01	4.5446E-01			1.4300E-02	1.4128E-02
1956	3.2000E+00	3.6050E+00			3.1200E-02	4.4614E-02
1957	3.9100E+00	7.3816E+00			8.4500E-02	1.2703E-01
1958	4.2000E-01	7.6197E+00			4.0030E-02	1.6353E-01
1959	4.0000E-01	7.8324E+00			2.4960E-01	4.0621E-01
1960	5.0000E-01	8.1388E+00			2.6500E+00	3.0146E+00
1961	3.5800E+00	1.1481E+01			6.7000E-01	3.6043E+00
1962	1.2400E+00	1.2431E+01			1.2200E+00	4.7233E+00
1963	6.9300E+00	1.8980E+01			1.1900E+00	5.7858E+00
1964	9.8000E-01	1.9493E+01			7.0000E-01	6.3388E+00
1965	4.7000E+00	2.3670E+01			6.9000E-01	6.8687E+00
1966	7.9000E-01	2.3884E+01			5.4000E-01	7.2377E+00
1967	1.1600E+00	2.4458E+01			1.0100E+00	8.0622E+00
1968	1.3800E+00	2.5235E+01	4.7000E-02	4.6434E-02	1.3000E+00	9.1535E+00
1969	2.2900E+00	2.6893E+01	2.7000E-02	7.1996E-02	4.2000E-01	9.3492E+00
1970	6.7000E-01	2.6911E+01	3.7000E-02	1.0683E-01	1.5000E-01	9.2735E+00
1971	9.1000E-01	2.7166E+01	9.2000E-02	1.9516E-01	1.1000E-01	9.1601E+00
1972	5.2000E-01	2.7029E+01	3.9000E-02	2.2902E-01	9.0000E-02	9.0296E+00
1973	7.3000E-01	2.7103E+01		2.2353E-01	3.0000E-03	8.8163E+00
1974	2.4000E-01	2.6691E+01	1.0000E-02	2.2806E-01		8.6052E+00
1975	6.7600E-01	2.3719E+01	1.0000E-02	2.3248E-01	1.0600E-01	8.5038E+00
1976	4.2900E-01	2.6503E+01	2.0000E-02	2.4667E-01		8.3002E+00
1977	4.5200E-01	2.6315E+01	1.0000E-02	2.5064E-01	2.5040E-02	8.1261E+00
1978	1.9940E+00	2.7655E+01	2.1000E-02	2.6538E-01	1.0620E-06	7.9315E+00
1979	2.6120E+00	2.9573E+01	3.0000E-02	2.8867E-01		7.7416E+00
1980	1.1300E-01	2.8977E+01	1.0000E-02	2.9163E-01	1.4100E-03	7.5576E+00
1981	7.3300E-01	2.9007E+01	4.7200E-02	3.3128E-01		7.3766E+00
1982	5.9000E-01	2.8895E+01	7.4000E-02	3.9646E-01		7.1999E+00
1983	1.9900E-01	2.8400E+01	5.1810E-02	4.3815E-01		7.0275E+00
1984	2.2000E-02	2.7741E+01	1.2000E-01	5.4621E-01		6.8592E+00
1985	4.8000E-02	2.7124E+01	5.0100E-02	5.8262E-01		6.6949E+00
1986	3.8000E-02	2.6512E+01	8.0000E-02	6.4771E-01	5.4600E-03	6.5400E+00
1987	1.9000E-02	2.5896E+01	8.3500E-02	7.1469E-01		6.3834E+00
1988	2.0000E-02	2.5296E+01	7.3000E-02	7.6969E-01		6.2305E+00
TOTAL	4.2955E+01		9.3261E-01		1.1301E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
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	<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>K-Area Migration</u> <u>Seepage Basins to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959	2.6000E-02	2.5687E-02				
1960	4.0300E-03	2.9053E-02				
1961		2.8357E-02				
1962		2.7678E-02				
1963		2.7015E-02				
1964		2.6368E-02				
1965	1.2000E-01	1.4429E-01				
1966		1.4084E-01				
1967		1.3746E-01				
1968		1.3417E-01	1.2700E+00	1.2547E+00		
1969		1.3096E-01	3.6100E+00	4.7912E+00		
1970		1.2782E-01	1.6300E+00	6.2868E+00		
1971		1.2476E-01	1.5000E-01	6.2844E+00		
1972		1.2177E-01	3.0000E-02	6.1636E+00		
1973		1.1886E-01	5.0000E-03	6.0209E+00		
1974		1.1601E-01	1.0000E-03	5.8777E+00		
1975		1.1323E-01		5.7369E+00		
1976		1.1052E-01	7.0000E-03	5.6064E+00		
1977		1.0787E-01	2.1700E-04	5.4724E+00		
1978		1.0529E-01	1.9520E-04	5.3415E+00		
1979		1.0277E-01	1.7000E-04	5.2138E+00		
1980		1.0031E-01		5.0889E+00		
1981		9.7904E-02		4.9670E+00		
1982		9.5559E-02	9.3600E-04	4.8490E+00		
1983		9.3271E-02	1.0130E-05	4.7329E+00		
1984		9.1037E-02	8.2000E-05	4.6196E+00		
1985		8.8857E-02	4.5700E-04	4.5094E+00		
1986		8.6729E-02		4.4014E+00		
1987		8.4652E-02	1.4340E-03	4.2975E+00		
1988		8.2625E-02	1.8710E-03	4.1964E+00	1.1000E-05	1.0867E-05
TOTAL	1.5003E-01		6.7084E+00		1.1000E-05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
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	<u>L Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	3.6400E-02	3.5961E-02				
1956	6.5000E-02	9.9317E-02				
1957	1.5470E-01	2.4977E-01				
1958	1.3780E-01	3.7993E-01	4.0300E-02	3.9815E-02		
1959	3.4580E-01	7.1247E-01	5.2000E-03	4.3998E-02		
1960	8.7400E+00	9.3301E+00	7.1500E-03	5.0009E-02		
1961	9.0000E-01	9.9958E+00	2.6000E-05	4.8837E-02	3.4190E-02	3.3778E-02
1962	8.8000E-01	1.0626E+01	3.9000E-05	4.7706E-02	2.7430E-02	6.0069E-02
1963	1.2900E+00	1.1646E+01	1.8590E-01	2.3022E-01	2.0020E-01	2.5642E-01
1964	3.0300E+00	1.4360E+01	1.2400E+00	1.4498E+00	4.0000E-02	2.8980E-01
1965	1.7300E+00	1.5726E+01	1.0000E-03	1.4160E+00	4.0000E-02	3.2237E-01
1966	1.8200E+00	1.7147E+01		1.3821E+00	2.0000E-02	3.3441E-01
1967	1.5200E+00	1.8238E+01	2.2000E-01	1.5664E+00	6.0000E-03	3.3233E-01
1968	6.9000E-01	1.8483E+01	9.0000E-02	1.6178E+00	1.0000E-03	3.2536E-01
1969	5.9000E-01	1.8623E+01		1.5790E+00		3.1757E-01
1970	7.0000E-02	1.8246E+01		1.5412E+00		3.0996E-01
1971		1.7809E+01		1.5043E+00	3.0000E-04	3.0284E-01
1972		1.7383E+01		1.4683E+00		2.9558E-01
1973		1.6967E+01		1.4331E+00		2.8850E-01
1974		1.6560E+01		1.3988E+00		2.8160E-01
1975		1.6164E+01		1.3653E+00	1.0000E-03	2.7584E-01
1976		1.5777E+01		1.3326E+00		2.6923E-01
1977		1.5399E+01		1.3007E+00	2.4000E-04	2.6302E-01
1978		1.5030E+01		1.2695E+00	1.5210E-05	2.5674E-01
1979		1.4670E+01		1.2391E+00	1.3000E-05	2.5060E-01
1980		1.4319E+01		1.2095E+00		2.4460E-01
1981	1.2360E-02	1.3988E+01		1.1805E+00		2.3874E-01
1982	2.1300E-04	1.3653E+01		1.1522E+00		2.3303E-01
1983	4.2000E-05	1.3326E+01		1.1246E+00		2.2745E-01
1984	1.0000E-06	1.3007E+01		1.0977E+00		2.2200E-01
1985	1.8000E-05	1.2696E+01		1.0714E+00		2.1668E-01
1986		1.2392E+01		1.0457E+00		2.1149E-01
1987		1.2095E+01		1.0207E+00		2.0643E-01
1988		1.1805E+01		9.9625E-01		2.0148E-01
TOTAL	2.2012E+01		1.7896E+00		3.7039E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
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	<u>L Area</u> <u>L-Lake Overflow to Stream</u>		<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955			3.6400E-02	3.5961E-02		
1956			8.4500E-02	1.1858E-01		
1957			2.4440E-01	3.5720E-01	4.1600E-02	4.1099E-02
1958			1.1570E-01	4.6295E-01	1.3000E-03	4.1399E-02
1959			1.5600E-01	6.0598E-01	4.2000E+00	4.1898E+00
1960			1.1200E+00	1.6980E+00	2.0040E-01	4.2875E+00
1961			9.1000E-01	2.5564E+00	4.3030E-02	4.2273E+00
1962			2.0700E+00	4.5402E+00	1.9370E-02	4.1452E+00
1963			1.2200E+00	5.6368E+00	3.9000E-02	4.0844E+00
1964			2.0900E+00	7.5666E+00	3.0000E-02	4.0163E+00
1965			2.2700E+00	9.6280E+00	3.0000E-03	3.9230E+00
1966			1.6700E+00	1.1047E+01		3.8291E+00
1967			1.4900E+00	1.2255E+01		3.7374E+00
1968			2.3400E+00	1.4273E+01	1.6000E-01	3.8060E+00
1969			1.5200E+00	1.5433E+01		3.7148E+00
1970			1.1600E+00	1.6209E+01		3.6258E+00
1971			2.6000E-01	1.6078E+01		3.5390E+00
1972			9.0000E-02	1.5782E+01		3.4543E+00
1973			7.0000E-03	1.5411E+01		3.3715E+00
1974			2.4000E-02	1.5066E+01		3.2908E+00
1975				1.4705E+01		3.2120E+00
1976				1.4353E+01		3.1351E+00
1977			1.5000E-05	1.4009E+01		3.0600E+00
1978				1.3673E+01		2.9867E+00
1979				1.3346E+01		2.9152E+00
1980				1.3026E+01		2.8454E+00
1981				1.2714E+01	6.3000E-05	2.7773E+00
1982				1.2410E+01		2.7108E+00
1983				1.2113E+01	1.1150E-04	2.6460E+00
1984				1.1823E+01	1.4420E-03	2.5840E+00
1985				1.1539E+01	1.0600E-04	2.5222E+00
1986				1.1263E+01	6.9180E-04	2.4625E+00
1987				1.0993E+01	5.8960E-04	2.4041E+00
1988	1.2600E-01	1.2448E-01		1.0730E+01	9.1110E-06	2.3466E+00
TOTAL	1.2600E-01		1.8878E+01		4.7407E+00	

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	<u>P-Area Migration</u> <u>Seepage Basins to Stream</u>		<u>P Area</u> <u>Par Pond Overflow to Stream</u>		<u>R Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954					3.9000E-02	3.3530E-02
1955					4.1600E-02	7.8706E-02
1956					1.9760E-01	2.7204E-01
1957					1.0410E+01	1.0550E+01
1958					3.5100E-01	1.0644E+01
1959					3.6790E-01	1.0753E+01
1960					2.7900E+00	1.3252E+01
1961					1.1300E+00	1.4051E+01
1962					1.8500E+00	1.5542E+01
1963					5.9900E+00	2.1088E+01
1964					3.4000E+00	2.3942E+01
1965						2.3368E+01
1966						2.2809E+01
1967						2.2262E+01
1968						2.1729E+01
1969						2.1209E+01
1970						2.0701E+01
1971						2.0205E+01
1972						1.9721E+01
1973						1.9249E+01
1974						1.8788E+01
1975						1.8338E+01
1976						1.7899E+01
1977						1.7470E+01
1978						1.7052E+01
1979						1.6643E+01
1980						1.6245E+01
1981						1.5856E+01
1982						1.5476E+01
1983						1.5105E+01
1984						1.4744E+01
1985						1.4391E+01
1986						1.4046E+01
1987	1.5100E-04	1.4918E-04				1.3710E+01
1988	1.1000E-04	2.5428E-04	1.2000E-02	1.1855E-02		1.3381E+01
TOTAL	2.6100E-04		1.2000E-02		2.6567E+01	

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	<u>R Area</u>		<u>Central Shops</u>	
	<u>Purges to Seepage Basins</u>		<u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957	1.7500E+02	1.7289E+02		
1958	1.2000E+01	1.8061E+02		
1959	1.3000E+01	1.8912E+02		
1960		1.8460E+02		
1961		1.8017E+02		
1962	1.0400E-03	1.7586E+02		
1963	1.3000E-03	1.7165E+02		
1964	5.4000E-01	1.6807E+02		
1965		1.6405E+02		
1966		1.6012E+02		
1967		1.5628E+02		
1968		1.5254E+02		
1969		1.4889E+02		
1970		1.4532E+02		
1971		1.4184E+02		
1972		1.3845E+02		
1973		1.3513E+02		
1974		1.3189E+02		
1975		1.2874E+02		
1976		1.2565E+02		
1977		1.2264E+02		
1978		1.1971E+02		
1979		1.1684E+02		
1980		1.1404E+02		
1981		1.1131E+02		
1982		1.0864E+02	4.0000E-05	3.9518E-05
1983		1.0604E+02	3.4000E-05	7.2162E-05
1984		1.0350E+02		7.0434E-05
1985		1.0102E+02		6.8747E-05
1986		9.8605E+01		6.7101E-05
1987		9.6243E+01		6.5494E-05
1988		9.3938E+01		6.3925E-05
TOTAL	2.0054E+02		7.4000E-05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Y-91

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>D Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965	5.0200E+00	5.7691E-01				
1966	1.8600E+00	2.2137E-01				
1967	2.2800E+00	2.6495E-01				
1968	7.6200E+00	8.7921E-01				
1969	1.4700E+00	1.8055E-01				
1970	3.5200E+00	4.0691E-01				
1971	2.0300E+00	2.3867E-01				
1972	8.0000E-02	1.2346E-02				
1973	4.6000E-02	5.4495E-03			2.6400E-03	3.0339E-04
1974	6.8000E-02	7.8867E-03				4.0070E-06
1975	5.0000E-03	6.7877E-04				
1976	4.0000E-02	4.6058E-03				
1977	2.5940E-03	3.5894E-04				
1978	1.1130E-03	1.3265E-04	3.1630E-04	3.6350E-05		
1979		1.7519E-06	1.7900E-03	2.0619E-04		
1980			2.9000E-04	3.6051E-05		
1981			2.9800E-04	3.4723E-05		
1982			2.6950E-03	3.1017E-04		
1983				4.0965E-06		
1984			4.2490E-03	4.8836E-04		
1985				6.4498E-06		
1986						
1987						
1988						
TOTAL	2.4043E+01		9.6383E-03		2.6400E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Y-91

	<u>K Area</u>		<u>K Area</u>		<u>L Area</u>	
	<u>Liquid to Stream</u>		<u>Purges to Containment Basin</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965	5.8200E+00	6.6885E-01			1.3070E+01	1.5020E+00
1966	1.2900E+00	1.5708E-01			1.0420E+01	1.2173E+00
1967	3.7400E+00	4.3188E-01			6.1300E+00	7.2055E-01
1968	1.2640E+01	1.4583E+00			3.5300E+00	4.1519E-01
1969	1.3800E+00	1.7785E-01				5.4835E-03
1970	1.2000E+00	1.4026E-01			6.4000E-01	7.3623E-02
1971	1.3000E-01	1.6792E-02				9.7234E-04
1972	4.0000E-02	4.8187E-03	1.3000E-01	1.4940E-02		1.2842E-05
1973	7.3000E-02	8.4530E-03	9.7000E-02	1.1345E-02		1.6960E-07
1974	1.1000E-02	1.3758E-03	1.7400E-01	2.0146E-02		
1975	1.0000E-03	1.3309E-04	2.0000E-03	4.9592E-04		
1976	7.0000E-03	8.0621E-04	5.1000E-02	5.8676E-03		
1977	7.7000E-02	8.8597E-03	1.9490E-02	2.3173E-03		
1978		1.1701E-04	1.7160E-02	2.0027E-03		
1979		1.5454E-06	4.3580E-03	5.2728E-04		
1980			5.3500E-04	6.8447E-05		
1981			2.7400E-04	3.2393E-05		
1982			2.0140E-03	2.3188E-04		
1983			2.3760E-05	5.7930E-06		
1984			5.9500E-04	6.8455E-05		
1985				9.0410E-07		
1986						
1987						
1988						
TOTAL	2.6409E+01		4.9845E-01		3.3790E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Y-91

	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965					3.8300E+00	4.4015E-01
1966					3.7300E+00	4.3447E-01
1967					6.4500E+00	7.4699E-01
1968					7.1300E+00	8.2926E-01
1969					5.9100E+00	6.9014E-01
1970					4.4200E+00	5.1707E-01
1971					1.3000E-01	2.1769E-02
1972					9.0000E-02	1.0630E-02
1973					5.6000E-03	7.8396E-04
1974					4.9000E-02	5.6415E-03
1975			1.0000E-03	1.1492E-04	8.0000E-03	9.9389E-04
1976				1.5178E-06	2.8000E-02	3.2309E-03
1977					1.8930E-03	2.6022E-04
1978					2.5940E-03	3.0154E-04
1979						3.9825E-06
1980						
1981						
1982						
1983						
1984						
1985	2.1000E-05	2.4134E-06				
1986						
1987						
1988						
TOTAL	2.1000E-05		1.0000E-03		3.1785E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Y-91

P Area
Purges to Seepage Basins

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978	8.8510E-04	1.0172E-04
1979	2.0510E-03	2.3705E-04
1980		3.1307E-06
1981	9.4000E-05	1.0844E-05
1982	3.6330E-03	4.1766E-04
1983		5.5160E-06
1984	4.4100E-04	5.0754E-05
1985	2.2390E-03	2.5798E-04
1986		3.4072E-06
1987		
1988		
TOTAL	9.3431E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Nb-95

	F Area <u>Atmospheric</u>		F Area <u>Liquid to Seepage Basins</u>		H Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971	2.3330E-01	6.3080E-03	3.2900E+00	8.8956E-02	1.1250E-01	3.0418E-03
1972	3.3160E-02	9.0120E-04	3.6900E+00	9.9836E-02	1.6910E-01	4.5744E-03
1973	3.9530E-02	1.0695E-03	1.0340E+01	2.7965E-01	3.5990E-02	9.7645E-04
1974	1.0880E-01	2.9426E-03	3.5700E+00	9.6731E-02	1.3700E-02	3.7114E-04
1975	1.3680E-02	3.7204E-04	4.3300E-01	1.1778E-02	1.0530E-02	2.8498E-04
1976	2.2450E-02	6.0728E-04	3.0380E+00	8.2151E-02	4.4940E-03	1.2172E-04
1977	3.3000E-02	8.9271E-04	1.1700E+00	3.1695E-02	4.4110E-03	1.1936E-04
1978	1.6330E-02	4.4219E-04	8.7790E-01	2.3760E-02	3.3330E-03	9.0206E-05
1979	2.4830E-02	6.7168E-04	1.1800E+00	3.1923E-02	1.6370E-03	4.4328E-05
1980	1.7430E-02	4.7177E-04	1.8950E+00	5.1261E-02	4.8700E-04	1.3200E-05
1981	6.0830E-02	1.6451E-03	3.9770E+00	1.0757E-01	2.8110E-03	7.6014E-05
1982	1.3910E-02	3.7731E-04	3.8580E+00	1.0439E-01	1.9680E-03	5.3267E-05
1983	1.4690E-02	3.9747E-04	2.9850E+00	8.0786E-02	3.2980E-03	8.9211E-05
1984	1.3770E-02	3.7261E-04	4.7450E+00	1.2836E-01	5.3340E-03	1.4429E-04
1985	3.2950E-02	8.9119E-04	8.4420E+00	2.2835E-01	1.5740E-02	4.2569E-04
1986	6.8810E-03	1.8670E-04	9.3270E-01	2.5386E-02	2.3030E-03	6.2580E-05
1987	2.0590E-03	5.5808E-05	1.7880E-01	4.8530E-03	1.2330E-03	3.3384E-05
1988	1.4420E-03	3.9030E-05	2.2690E-02	6.1705E-04	7.7800E-04	2.1060E-05
TOTAL	6.8904E-01		5.4625E+01		3.8965E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Nb-95

H Area
Liquid to Seepage Basins

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	8.9000E-01	2.4064E-02
1972	4.9800E+00	1.3467E-01
1973	3.0100E+00	8.1484E-02
1974	1.0400E+00	2.8179E-02
1975	4.6300E-01	1.2539E-02
1976	3.6000E-01	9.7430E-03
1977	2.5700E-01	6.9560E-03
1978	5.9860E-01	1.6190E-02
1979	2.1100E-01	5.7169E-03
1980	2.6000E-02	7.0718E-04
1981	1.1840E-01	3.2019E-03
1982	2.0690E-01	5.5966E-03
1983	2.4710E-01	6.6853E-03
1984	7.7000E-02	2.0868E-03
1985	1.5300E-01	4.1384E-03
1986	2.3630E-02	6.4194E-04
1987	6.3680E-03	1.7265E-04
1988	1.7310E-03	4.6930E-05
TOTAL	1.2670E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr, Nb-95

	<u>C Area</u>		<u>C Area</u>		<u>D Area</u>	
	<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	8.5000E-01	1.1765E-01				
1961	1.2700E+00	1.7804E-01				
1962	9.8000E-01	1.3906E-01				
1963	7.0000E-01	9.9555E-02				
1964	1.0600E+00	1.4863E-01	1.4000E+00	1.9378E-01		
1965	4.5000E-01	6.5134E-02	1.1800E+00	1.6704E-01		
1966	1.3800E+00	1.9226E-01	1.4200E+00	1.9975E-01		
1967	5.8200E+00	8.0926E-01	2.5100E+00	3.5125E-01	3.7600E+00	5.2044E-01
1968	2.0400E+00	2.9787E-01	4.0000E-03	7.2831E-03		9.9709E-03
1969	4.1000E-01	6.2457E-02		1.3953E-04		1.9103E-04
1970	2.1600E+00	3.0017E-01	1.0000E-02	1.3868E-03	8.0000E-03	1.1110E-03
1971	8.0080E-01	1.1659E-01		2.6570E-05	9.1000E-02	1.2617E-02
1972	2.0000E-02	5.0021E-03		5.0904E-07	5.9000E-02	8.4082E-03
1973	4.6000E-02	6.4629E-03			6.8470E-02	9.6384E-03
1974	1.5200E-01	2.1163E-02				1.8466E-04
1975	1.2000E-02	2.0664E-03				3.5378E-06
1976	1.7000E-02	2.3926E-03				
1977	1.5100E-04	6.6740E-05				
1978	3.4670E-04	4.9267E-05				
1979		9.4389E-07				
1980			4.1560E-03	5.7525E-04		
1981			1.7100E-04	3.4690E-05		
1982			6.6290E-04	9.2420E-05		
1983			2.4260E-03	3.3756E-04		
1984			2.0730E-03	2.9340E-04		
1985			1.3310E-03	1.8985E-04		
1986			4.2600E-05	9.5338E-06		
1987				1.8265E-07		
1988						
TOTAL	1.8168E+01		6.5349E+00		3.9865E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr, Nb-95

	<u>F Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>		<u>H Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.6000E-01	2.2146E-02	1.4870E+02	2.0582E+01	5.2000E-02	7.1976E-03
1961	2.5100E-01	3.5166E-02	3.0000E+01	4.5468E+00	4.8000E-02	6.7818E-03
1962	1.2220E-01	1.7588E-02	1.8730E+01	2.6796E+00	5.2000E-02	7.3275E-03
1963	1.0090E-01	1.4303E-02	2.9810E+01	4.1775E+00	4.9200E-02	6.9504E-03
1964	1.4580E-01	2.0455E-02	1.0430E+02	1.4517E+01	7.6800E-02	1.0763E-02
1965	1.4740E-01	2.0794E-02	2.4910E+01	3.7260E+00	6.8800E-02	9.7291E-03
1966	9.4600E-02	1.3492E-02	2.4190E+01	3.4196E+00	1.1100E-01	1.5550E-02
1967	1.5680E-01	2.1962E-02	1.9990E+01	2.8324E+00	5.3300E-02	7.6754E-03
1968	9.6600E-02	1.3792E-02	1.0360E+01	1.4882E+00	2.1430E-01	2.9809E-02
1969	6.0000E-02	8.5691E-03	1.2150E+01	1.7103E+00	2.2500E-01	3.1714E-02
1970	3.5000E-02	5.0087E-03	1.9380E+01	2.7152E+00	2.3900E-01	3.3689E-02
1971		9.5960E-05		5.2020E-02		6.4543E-04
1972		1.8385E-06		9.9664E-04		1.2366E-05
1973				1.9094E-05		2.3691E-07
1974				3.6582E-07		
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	1.3703E+00		4.4252E+02		1.1894E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr, Nb-95

	<u>H Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	3.5700E+01	4.9414E+00	2.9800E+00	4.1248E-01		
1961	3.3900E+01	4.7869E+00	1.4300E+00	2.0584E-01		
1962	1.0750E+01	1.5797E+00	1.9100E+00	2.6832E-01		
1963	3.8950E+01	5.4215E+00	1.3400E+00	1.9062E-01		
1964	4.0530E+01	5.7138E+00	4.2000E-01	6.1786E-02		
1965	7.6500E+00	1.1683E+00	7.7000E-01	1.0776E-01		
1966	6.4400E+00	9.1378E-01	1.2000E-01	1.8674E-02		
1967	1.0290E+01	1.4418E+00	1.4700E+00	2.0383E-01		
1968	6.4000E+00	9.1348E-01	5.2000E+00	7.2366E-01	2.1500E+00	2.9759E-01
1969	3.2500E+00	4.6735E-01		1.3864E-02	1.3300E+00	1.8979E-01
1970	5.2400E+00	7.3425E-01		2.6562E-04	7.4200E+00	1.0307E+00
1971		1.4067E-02	4.0000E-04	6.0455E-05	3.4000E-01	6.6807E-02
1972		2.6951E-04		1.1582E-06	9.7000E-01	1.3554E-01
1973		5.1634E-06	1.6000E-02	2.2147E-03	4.7200E-01	6.7929E-02
1974				4.2430E-05	3.3700E-01	4.7947E-02
1975				8.1290E-07	3.0000E-03	1.3338E-03
1976					1.1500E-01	1.5943E-02
1977			9.3060E-02	1.2881E-02	8.9340E-02	1.2671E-02
1978				2.4678E-04	4.8390E-02	6.9407E-03
1979				4.7280E-06	5.7930E-03	9.3481E-04
1980					1.0630E-02	1.4893E-03
1981					5.0450E-03	7.2683E-04
1982					1.4100E-04	3.3442E-05
1983					5.7160E-03	7.9182E-04
1984					2.1190E-03	3.0847E-04
1985					2.9380E-02	4.0725E-03
1986					1.4510E-03	2.7886E-04
1987					1.3520E-03	1.9248E-04
1988						3.6877E-06
TOTAL	1.9910E+02		1.5749E+01		1.3336E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr, Nb-95

	<u>L Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.3700E+00	1.8963E-01				
1961	2.1100E+00	2.9569E-01				
1962	2.4200E+00	3.4063E-01				
1963	1.0500E+00	1.5186E-01				
1964	1.2860E+01	1.7829E+00	3.8000E-01	5.2598E-02	1.0090E+01	1.3966E+00
1965	4.2600E+00	6.2381E-01	1.0000E-03	1.1461E-03	5.9300E+00	8.4756E-01
1966	5.7900E+00	8.1337E-01		2.1958E-05	6.4200E+00	9.0486E-01
1967	2.2600E+00	3.2840E-01	1.0000E-03	1.3884E-04	5.1500E+00	7.3017E-01
1968	3.3000E-01	5.1969E-02	8.8000E-01	1.2181E-01	1.1400E+00	1.7178E-01
1969		9.9565E-04	3.0000E-03	2.7489E-03	5.0000E-03	3.9832E-03
1970		1.9075E-05		5.2666E-05	4.0000E-03	6.2997E-04
1971		3.6546E-07		1.0090E-06	2.0000E-03	2.8890E-04
1972					2.2000E-01	3.0457E-02
1973						5.8351E-04
1974						1.1179E-05
1975					4.0000E-03	5.5387E-04
1976						1.0611E-05
1977						2.0330E-07
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985			6.6000E-05	9.1354E-06		
1986				1.7502E-07		
1987						
1988						
TOTAL	3.2450E+01		1.2651E+00		2.8965E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr, Nb-95

	<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>		<u>R Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	7.5000E-01	1.0381E-01			1.4800E+00	2.0485E-01
1961	6.9000E-01	9.7495E-02			1.4800E+00	2.0878E-01
1962	9.4800E+00	1.3140E+00			2.3600E+00	3.3066E-01
1963	2.5100E+00	3.7260E-01			2.6530E+01	3.6785E+00
1964	1.4700E+00	2.1061E-01	9.0000E-02	1.2457E-02	3.9100E+00	6.1168E-01
1965	6.5000E-01	9.4005E-02		2.3867E-04		1.1719E-02
1966	6.5000E-01	9.1771E-02		4.5725E-06		2.2452E-04
1967	4.4000E-01	6.2661E-02				4.3015E-06
1968	5.4000E-01	7.5944E-02				
1969	3.1700E+00	4.4023E-01				
1970	6.4000E-01	9.7020E-02				
1971	6.6000E-04	1.9501E-03				
1972	2.0000E-02	2.8057E-03				
1973	6.2000E-02	8.6355E-03				
1974	8.4000E-02	1.1792E-02				
1975	2.7000E-02	3.9631E-03				
1976		7.5928E-05				
1977	6.1000E-04	8.5888E-05				
1978		1.6455E-06				
1979			1.3300E-04	1.8409E-05		
1980			3.9370E-03	5.4529E-04		
1981				1.0447E-05		
1982			1.0540E-02	1.4591E-03		
1983			1.2080E-02	1.7000E-03		
1984			1.0960E-02	1.5496E-03		
1985			9.9960E-02	1.3866E-02		
1986			1.4100E-02	2.2173E-03		
1987			4.7950E-04	1.0885E-04		
1988			7.5000E-07	2.1892E-06		
TOTAL	2.1184E+01		2.4219E-01		3.5760E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr-95

	<u>F Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>		<u>H Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971	2.3760E-02	3.2887E-03	3.6200E+00	5.0106E-01	1.1140E-01	1.5419E-02
1972	1.3060E-02	1.8707E-03	4.0200E+00	5.6603E-01	1.3790E-01	1.9383E-02
1973	1.7420E-02	2.4470E-03	9.7500E+00	1.3604E+00	5.1840E-02	7.5468E-03
1974	1.7990E-02	2.5370E-03	3.4000E+00	4.9667E-01	1.5440E-02	2.2817E-03
1975	3.7020E-03	5.6102E-04	7.3300E-01	1.1097E-01	9.8010E-03	1.4003E-03
1976	7.7190E-03	1.0792E-03	5.2450E+00	7.2811E-01	6.5520E-03	9.3372E-04
1977	7.6480E-03	1.0793E-03	1.9720E+00	2.8690E-01	6.7790E-03	9.5620E-04
1978	5.3680E-03	7.6369E-04	1.5720E+00	2.2308E-01	1.9640E-03	2.9017E-04
1979	1.1860E-02	1.6562E-03	1.8340E+00	2.5813E-01	1.3160E-03	1.8771E-04
1980	1.2770E-02	1.7993E-03	3.0820E+00	4.3154E-01	7.4000E-04	1.0602E-04
1981	1.3170E-02	1.8574E-03	5.5360E+00	7.7453E-01	3.9230E-03	5.4503E-04
1982	1.2280E-02	1.7353E-03	6.1850E+00	8.7093E-01	2.1000E-03	3.0111E-04
1983	8.9840E-03	1.2768E-03	3.6310E+00	5.1927E-01	2.2080E-03	3.1139E-04
1984	7.2470E-03	1.0276E-03	6.9380E+00	9.7027E-01	6.5410E-03	9.1134E-04
1985	1.3120E-02	1.8357E-03	1.0170E+01	1.4263E+00	1.6060E-02	2.2404E-03
1986	2.2150E-03	3.4176E-04	8.3000E-01	1.4221E-01	2.1600E-03	3.4190E-04
1987	1.1000E-03	1.5880E-04	1.2740E-01	2.0359E-02	5.7200E-04	8.5724E-05
1988	3.4500E-04	5.0796E-05	1.7940E-02	2.8732E-03	4.1500E-04	5.9084E-05
TOTAL	1.7976E-01		6.8663E+01		3.7771E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Zr-95

H Area
Liquid to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	6.5000E-01	8.9970E-02
1972	3.0300E+00	4.2112E-01
1973	1.6000E+00	2.2953E-01
1974	7.2000E-01	1.0406E-01
1975	2.3900E-01	3.5075E-02
1976	4.5300E-01	6.3374E-02
1977	2.3000E-01	3.3050E-02
1978	5.0100E-01	6.9979E-02
1979	5.4500E-01	7.6777E-02
1980	1.1000E-02	2.9935E-03
1981	1.0530E-01	1.4632E-02
1982	1.3370E-01	1.8786E-02
1983	1.1472E-01	2.0735E-02
1984	7.7000E-02	1.1055E-02
1985	9.1000E-02	1.2808E-02
1986	1.5810E-02	2.4337E-03
1987	5.8570E-03	8.5732E-04
1988	6.4970E-04	1.0635E-04
TOTAL	8.5555E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Mo-99

	<u>C Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.7200E+00		6.4400E+00		2.1500E+00	
1961	1.2000E-01		1.8000E+00		6.5000E+00	
1962	2.7000E-01		9.8000E-01		1.4400E+00	
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972						
1973						
1974						
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	2.1100E+00		9.2200E+00		1.0090E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Mo-99

	P Area <u>Liquid to Stream</u>		R Area <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960				
1961	7.4000E-01		1.5000E-01	
1962	4.1000E-01		1.6000E-01	
1963				
1964				
1965				
1966				
1967				
1968				
1969				
1970				
1971				
1972				
1973				
1974				
1975				
1976				
1977				
1978				
1979				
1980				
1981				
1982				
1983				
1984				
1985				
1986				
1987				
1988				
TOTAL	1.1500E+00		3.1000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103

	F Area Atmospheric		F Area Liquid to Seepage Basins		H Area Atmospheric	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969	1.0760E-01	4.3121E-03			9.5080E+00	3.8103E-01
1970		6.9253E-06				6.1195E-04
1971	1.2950E-02	5.1898E-04	1.8500E+00	7.4139E-02	2.7210E+00	1.0905E-01
1972	6.8200E-03	2.7415E-04	2.0400E+00	8.1872E-02	3.8420E+00	1.5414E-01
1973	3.6000E-03	1.4471E-04	2.1500E+00	8.6293E-02	1.8760E+00	7.5428E-02
1974	3.4400E-03	1.3809E-04	1.3800E+00	5.5442E-02	5.3800E-03	3.3674E-04
1975	7.1200E-04	2.8755E-05	8.2000E-02	3.3752E-03	1.1030E-03	4.4744E-05
1976	1.2840E-03	5.1503E-05	1.0410E+00	4.1724E-02	1.9640E-02	7.8715E-04
1977	1.5330E-03	6.1518E-05	1.1540E+00	4.6314E-02	2.3110E-02	9.2740E-04
1978	8.0070E-01	3.2088E-02	6.5510E-01	2.6328E-02	1.7430E-03	7.1340E-05
1979	1.1880E-03	9.9143E-05	7.2600E-01	2.9137E-02	3.6330E-03	1.4571E-04
1980	1.2500E-03	5.0253E-05	1.2340E+00	4.9499E-02	4.0500E-04	1.6464E-05
1981	2.7950E-03	1.1209E-04	2.0150E+00	8.0831E-02	1.0180E-02	4.0799E-04
1982	9.5170E-03	3.8157E-04	2.0770E+00	8.3366E-02	4.4890E-02	1.7996E-03
1983	2.2190E-03	8.9539E-05	3.0900E-01	1.2517E-02	1.8110E-02	7.2865E-04
1984	7.0570E-03	2.8295E-04	3.1700E-01	1.2724E-02	1.1910E-02	4.7846E-04
1985	8.9260E-03	3.5816E-04	7.6400E-01	3.0638E-02	2.1090E-03	8.5287E-05
1986	7.4900E-04	3.0591E-05	4.0270E-01	1.6187E-02	2.7510E-03	1.1038E-04
1987	6.8500E-04	2.7501E-05	2.2310E-03	1.1540E-04	6.8400E-04	2.7589E-05
1988	4.7000E-05	1.9277E-06		1.8534E-07	4.1400E-04	1.6635E-05
TOTAL	9.7307E-01		1.8199E+01		1.8093E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103

H Area
Liquid to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	5.1700E+00	2.0719E-01
1972	4.3700E+00	1.7546E-01
1973	1.9900E+00	8.0031E-02
1974	2.1000E-01	8.5443E-03
1975	1.9800E-01	7.9486E-03
1976	8.1000E-01	3.2474E-02
1977	1.1400E-01	4.6207E-03
1978	6.4280E-01	2.5768E-02
1979	8.2200E-01	3.2983E-02
1980	2.0000E-02	8.5447E-04
1981	3.0860E-02	1.2381E-03
1982	1.9690E-01	7.8928E-03
1983	1.2220E-01	4.9099E-03
1984	6.6000E-02	2.6528E-03
1985	4.0000E-03	1.6456E-04
1986	2.4610E-03	9.8889E-05
1987	9.4140E-04	3.7886E-05
1988		
TOTAL	1.4770E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103, 106

	<u>C Area</u>		<u>C Area</u>		<u>D Area</u>	
	<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	1.9500E-02	1.3827E-02				
1956	1.8000E-02	1.9715E-02				
1957	3.3000E-02	3.3312E-02				
1958	6.1500E-02	6.0356E-02				
1959	6.9300E-01	5.2173E-01	2.2050E-01	1.5635E-01		
1960	4.9000E-01	6.0976E-01	9.5530E-02	1.4635E-01		
1961	9.0000E-01	9.4474E-01	3.0000E-02	9.4853E-02		
1962	3.3000E-01	7.0899E-01	5.8500E-03	5.1838E-02		
1963	3.3000E-01	5.9046E-01	7.3500E-02	7.8180E-02		
1964	5.1000E-01	6.5850E-01	1.1700E+00	8.6892E-01		
1965	7.9000E-01	8.9125E-01	7.9000E-01	9.9704E-01		
1966	2.9000E-01	6.5373E-01	4.2000E-01	7.9910E-01		
1967	3.3000E-01	5.6268E-01	2.0000E-01	5.4359E-01	2.9000E-01	2.0563E-01
1968	5.7000E-01	6.8707E-01	3.0000E-03	2.7543E-01	2.0000E-02	1.1757E-01
1969	1.0000E-01	4.1636E-01		1.3848E-01	2.0000E-02	7.3293E-02
1970	6.0000E-02	2.5188E-01		6.9626E-02	1.0000E-03	3.7559E-02
1971	1.0000E-02	1.3373E-01		3.5007E-02	2.4000E-02	3.5902E-02
1972		6.7237E-02		1.7601E-02	3.9000E-02	4.5704E-02
1973	2.4000E-02	5.0823E-02		8.8493E-03	1.8420E-02	3.6040E-02
1974	3.0000E-03	2.7680E-02		4.4493E-03		1.8120E-02
1975		1.3917E-02		2.2370E-03		9.1106E-03
1976	1.0000E-03	7.7063E-03		1.1247E-03		4.5807E-03
1977	8.6600E-04	4.4887E-03		5.6549E-04		2.3031E-03
1978		2.2568E-03		2.8432E-04		1.1579E-03
1979		1.1347E-03		1.4295E-04		5.8219E-04
1980		5.7050E-04	7.2600E-04	5.8666E-04		2.9271E-04
1981		2.8684E-04		2.9496E-04		1.4717E-04
1982		1.4422E-04	1.7470E-04	2.7218E-04		7.3995E-05
1983		7.2509E-05	5.3820E-04	5.1847E-04		3.7203E-05
1984		3.6456E-05	9.0000E-05	3.2449E-04		1.8705E-05
1985		1.8329E-05		1.6315E-04		9.4046E-06
1986		9.2157E-06		8.2028E-05		4.7284E-06
1987		4.6335E-06		4.1242E-05		2.3774E-06
1988		2.3296E-06		2.0736E-05		1.1953E-06
TOTAL	5.5639E+00		3.0099E+00		4.1242E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103, 106

	<u>F Area</u>		<u>H Area</u>		<u>K Area</u>	
	<u>Atmospheric</u>		<u>Atmospheric</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	7.2770E+00	5.1599E+00	1.7790E+01	1.2614E+01	1.6500E-02	1.1700E-02
1956	4.0290E+00	5.4511E+00	2.3110E+00	7.9809E+00	3.6000E-02	3.1409E-02
1957	4.4430E-01	3.0558E+00	7.9460E-01	4.5761E+00	9.7500E-02	8.4926E-02
1958	2.3060E-01	1.6999E+00	3.8600E-01	2.5745E+00	4.6500E-02	7.5671E-02
1959	8.0340E+00	6.5514E+00	1.9540E+00	2.6799E+00	2.8800E-01	2.4226E-01
1960	8.6950E+00	9.4593E+00	1.5900E-01	1.4602E+00	1.3500E+00	1.0790E+00
1961	6.7400E-01	5.2339E+00	3.2390E+00	3.0308E+00	2.4200E+00	2.2585E+00
1962	2.5290E+00	4.4247E+00	2.4600E-01	1.6983E+00	7.7000E-01	1.6815E+00
1963	1.1540E+00	3.0429E+00	2.7350E+00	2.7932E+00	5.9000E-01	1.2638E+00
1964	1.5920E+00	2.6588E+00	1.0230E+00	2.1297E+00	8.0000E-01	1.2027E+00
1965	2.5650E+00	3.1555E+00	1.9500E-01	1.2091E+00	1.8900E+00	1.9448E+00
1966	1.0580E+00	2.3367E+00	3.5320E+00	3.1123E+00	3.3000E-01	1.2118E+00
1967	1.2160E-01	1.2611E+00	2.9680E-01	1.7753E+00	6.1000E-01	1.0418E+00
1968	1.4240E-01	7.3503E-01	1.9910E+01	1.5010E+01	1.2700E+00	1.4243E+00
1969		3.6956E-01		7.5468E+00		7.1612E-01
1970		1.8581E-01		3.7944E+00		3.6005E-01
1971		9.3420E-02		1.9078E+00		1.8103E-01
1972		4.6970E-02		9.5918E-01		9.1017E-02
1973		2.3616E-02		4.8226E-01	2.0000E-03	4.7180E-02
1974		1.1873E-02		2.4247E-01		2.3721E-02
1975		5.9697E-03		1.2191E-01	5.2000E-02	4.8798E-02
1976		3.0015E-03		6.1294E-02		2.4535E-02
1977		1.5091E-03		3.0817E-02	1.5600E-04	1.2446E-02
1978		7.5874E-04		1.5494E-02		6.2578E-03
1979		3.8148E-04		7.7903E-03		3.1463E-03
1980		1.9180E-04		3.9168E-03		1.5819E-03
1981		9.6434E-05		1.9693E-03		7.9534E-04
1982		4.8485E-05		9.9013E-04		3.9988E-04
1983		2.4377E-05		4.9782E-04		2.0105E-04
1984		1.2257E-05		2.5029E-04		1.0109E-04
1985		6.1624E-06		1.2584E-04		5.0824E-05
1986		3.0983E-06		6.3272E-05		2.5553E-05
1987		1.5578E-06		3.1812E-05		1.2848E-05
1988		7.8322E-07		1.5994E-05		6.4596E-06
TOTAL	3.8546E+01		5.4571E+01		1.0569E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103, 106

	<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955					4.2000E-02	2.9781E-02
1956					7.5000E-02	6.8154E-02
1957					1.7850E-01	1.6084E-01
1958					1.5900E-01	1.9361E-01
1959	3.0000E-02	2.1272E-02			3.9900E-01	3.8026E-01
1960	4.6500E-03	1.3992E-02			3.7600E+00	2.8573E+00
1961		7.0351E-03			2.3600E+00	3.1100E+00
1962		3.5371E-03			5.0000E-01	1.9182E+00
1963		1.7784E-03			8.7000E-01	1.5813E+00
1964		8.9415E-04			4.9900E+00	4.3333E+00
1965	1.0000E-03	1.1586E-03			1.0800E+00	2.9445E+00
1966		5.8254E-04			6.5000E-01	1.9413E+00
1967		2.9289E-04			7.1000E-01	1.4795E+00
1968		1.4726E-04	1.9600E+00	1.3898E+00		7.4387E-01
1969		7.4039E-05	1.2900E+00	1.6135E+00		3.7400E-01
1970		3.7225E-05	1.6900E+00	2.0095E+00		1.8804E-01
1971		1.8716E-05	2.0000E-02	1.0245E+00		9.4544E-02
1972		9.4102E-06	2.0000E-02	5.2930E-01		4.7535E-02
1973		4.7313E-06	1.0000E-03	2.6683E-01		2.3900E-02
1974		2.3788E-06	1.0000E-03	1.3487E-01		1.2016E-02
1975		1.1960E-06		6.7809E-02		6.0416E-03
1976		6.0133E-07	2.3000E-02	5.0402E-02		3.0376E-03
1977		3.0234E-07	3.4470E-03	2.7785E-02		1.5272E-03
1978		1.5201E-07	7.2990E-04	1.4487E-02		7.6787E-04
1979			1.8600E-04	7.4159E-03		3.8607E-04
1980			1.2900E-04	3.8200E-03		1.9411E-04
1981			3.4200E-04	2.1631E-03		9.7594E-05
1982			2.2500E-04	1.2471E-03		4.9068E-05
1983				6.2703E-04		2.4671E-05
1984			1.3800E-04	4.1311E-04		1.2404E-05
1985			1.0140E-03	9.2670E-04		6.2365E-06
1986			4.9140E-04	8.1437E-04		3.1356E-06
1987			4.7520E-05	4.4314E-04		1.5765E-06
1988				2.2280E-04		7.92C4E-07
TOTAL	3.5650E-02		5.0117E+00		1.5773E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103, 106

	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954					4.2000E-02	2.9781E-02
1955					9.7500E-02	8.4108E-02
1956					2.8200E-01	2.4225E-01
1957					1.3350E-01	2.1646E-01
1958	4.6500E-02	3.2972E-02			1.8000E-01	2.3646E-01
1959	6.0000E-03	2.0832E-02			1.1200E+00	9.1305E-01
1960	8.2500E-03	1.6324E-02			5.8000E-01	8.7032E-01
1961	3.0000E-05	8.2286E-03	3.9450E-02	2.7973E-02	4.3800E+00	3.5433E+00
1962	4.5000E-05	4.1691E-03	3.1650E-02	3.6506E-02	1.4500E+00	2.8097E+00
1963	2.1450E-01	1.5419E-01	2.3100E-01	1.8215E-01	6.3000E-01	1.8594E+00
1964	7.0000E-02	1.2716E-01	3.7800E+00	2.7719E+00	8.0000E-02	9.9158E-01
1965		6.3933E-02	2.9360E+01	2.2212E+01		4.9855E-01
1966		3.2145E-02	1.6500E+00	1.2338E+01		2.5066E-01
1967		1.6162E-02	8.1000E-01	6.7775E+00		1.3312E-01
1968	1.1000E-01	8.6124E-02	1.0000E-02	3.4147E+00	1.0000E-02	1.3312E-01
1969		4.3301E-02	1.0000E-03	1.7176E+00	4.0000E-01	3.5056E-01
1970		2.1771E-02	1.0000E-03	8.6426E-01		1.7625E-01
1971		1.0946E-02	1.0000E-03	4.3524E-01	4.6000E-04	8.8943E-02
1972		5.5035E-03	2.0000E-02	2.3301E-01		4.4719E-02
1973		2.7670E-03		1.1716E-01	4.0000E-03	2.5320E-02
1974		1.3912E-03		5.8903E-02	1.0000E-03	1.3440E-02
1975		6.9948E-04	2.0000E-03	3.1034E-02	2.0000E-03	8.1753E-03
1976		3.5169E-04		1.5603E-02		4.1104E-03
1977		1.7682E-04	3.2700E-04	8.0768E-03		2.0666E-03
1978		8.8902E-05		4.0609E-03		1.0391E-03
1979		4.4698E-05		2.0417E-03		5.2242E-04
1980		2.2473E-05		1.0265E-03		2.6266E-04
1981		1.1299E-05		5.1613E-04		1.3206E-04
1982		5.6810E-06		2.5950E-04		6.6398E-05
1983		2.8563E-06		1.3047E-04		3.3384E-05
1984		1.4361E-06		6.5599E-05		1.6785E-05
1985	1.6200E-04	1.1559E-04		3.2982E-05		8.4391E-06
1986	2.9170E-06	6.0186E-05		1.6583E-05		4.2430E-06
1987		3.0260E-05		8.3374E-06		2.1333E-06
1988		1.5214E-05		4.1919E-06		1.0726E-06
TOTAL	4.5549E-01		3.5937E+01		9.3925E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-103, 106

	<u>P Area</u>		<u>R Area</u>		<u>R Area</u>	
	<u>Purges to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954			4.5000E-02	3.1908E-02		
1955			4.8000E-02	5.0078E-02		
1956			2.2800E-01	1.8685E-01		
1957	4.8000E-02	3.4035E-02	1.5590E+00	1.1994E+00	1.7040E+01	1.2083E+01
1958	1.5000E-03	1.8176E-02	4.0500E-01	8.9020E-01	6.3300E-01	6.5237E+00
1959	8.5500E-02	6.9764E-02	4.2450E-01	7.4858E-01	1.3500E-02	3.2896E+00
1960	9.1500E-02	9.9956E-02	2.3200E+00	2.0214E+00		1.6539E+00
1961	4.9650E-02	8.5461E-02	7.5000E-01	1.5481E+00		8.3157E-01
1962	2.2350E-02	5.8816E-02	9.2000E-01	1.4307E+00	1.2000E-03	4.1895E-01
1963	4.5000E-02	6.1480E-02	9.2900E+00	7.3066E+00	1.5000E-03	2.1170E-01
1964		3.0911E-02	9.3000E-01	4.3331E+00		1.0644E-01
1965		1.5541E-02		2.1786E+00		5.3516E-02
1966		7.8139E-03		1.0953E+00		2.6907E-02
1967		3.9287E-03		5.5072E-01		1.3528E-02
1968		1.9753E-03		2.7689E-01		6.8018E-03
1969		9.9313E-04		1.3922E-01		3.4198E-03
1970		4.9933E-04		6.9995E-02		1.7194E-03
1971		2.5105E-04		3.5192E-02		8.6449E-04
1972		1.2622E-04		1.7694E-02		4.3465E-04
1973		6.3463E-05		8.8962E-03		2.1853E-04
1974		3.1908E-05		4.4729E-03		1.0987E-04
1975		1.6043E-05		2.2489E-03		5.5243E-05
1976		8.0660E-06		1.1307E-03		2.7775E-05
1977		4.0554E-06		5.6849E-04		1.3965E-05
1978		2.0390E-06		2.8583E-04		7.0212E-06
1979		1.0252E-06		1.4371E-04		3.5301E-06
1980	1.0300E-04	7.3550E-05		7.2254E-05		1.7749E-06
1981		3.6979E-05		3.6328E-05		8.9238E-07
1982	1.8870E-03	1.3566E-03		1.8265E-05		4.4867E-07
1983		6.8208E-04		9.1832E-06		2.2558E-07
1984	2.1750E-03	1.8852E-03		4.6172E-06		1.1342E-07
1985	3.1470E-03	3.1793E-03		2.3214E-06		
1986	1.4220E-03	2.6068E-03		1.1672E-06		
1987	9.5950E-06	1.3174E-03		5.8683E-07		
1988		6.6238E-04		2.9505E-07		
TOTAL	3.5224E-01		1.6919E+01		1.7689E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-106

	<u>F Area</u>		<u>F Area</u>		<u>H Area</u>	
	<u>Atmospheric</u>		<u>Liquid to Seepage Basins</u>		<u>Atmospheric</u>	
	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>
1954						
1955			4.9560E+00	3.5142E+00		
1956			9.2400E+00	8.3187E+00		
1957			2.3050E+01	2.0527E+01		
1958			1.0800E+01	1.7978E+01		
1959			4.8400E+01	4.3358E+01		
1960			1.4000E+02	1.2107E+02		
1961			3.6400E+01	8.6682E+01		
1962			8.0940E+01	1.0097E+02		
1963			7.0040E+01	1.0043E+02		
1964			2.0340E+02	1.9472E+02		
1965			8.8890E+01	1.6093E+02		
1966			6.2590E+01	1.2529E+02		
1967			4.7170E+01	9.6442E+01		
1968			4.4490E+01	8.0036E+01		
1969	1.1280E-01	7.9983E-02	1.4020E+01	5.0182E+01	4.0000E+00	2.8363E+00
1970	3.1100E-01	2.6073E-01	3.9190E+01	5.3019E+01	3.6720E-01	1.6864E+00
1971	1.0900E-01	2.0838E-01	1.1930E+01	3.5116E+01	2.8440E+00	2.8645E+00
1972	2.6700E-02	1.2370E-01	1.5910E+01	2.8937E+01	3.4400E+00	3.8794E+00
1973	3.2650E-02	8.5346E-02	2.7500E+01	3.4048E+01	1.2750E+00	2.8546E+00
1974	2.7490E-02	6.2403E-02	1.2580E+01	2.6039E+01	1.1490E-01	1.5167E+00
1975	1.0000E-02	3.8466E-02	3.9750E+00	1.5910E+01	2.6560E-02	7.8140E-01
1976	1.2800E-02	2.8416E-02	7.3720E+00	1.3227E+01	2.5110E-01	5.7092E-01
1977	1.0340E-02	2.1619E-02	6.0390E+00	1.0932E+01	1.2930E-01	3.7873E-01
1978	3.2010E+01	2.2708E+01	1.2580E+01	1.4417E+01	6.0710E-02	2.3347E-01
1979	3.1620E-02	1.1440E+01	1.1220E+01	1.5204E+01	2.2950E-02	1.3366E-01
1980	2.6910E-02	5.7707E+00	1.8450E+01	2.0727E+01	3.2930E-02	9.0549E-02
1981	2.2520E-02	2.9174E+00	1.8420E+01	2.3482E+01	5.5780E-02	8.5078E-02
1982	2.3850E-02	1.4837E+00	4.6620E+00	1.5112E+01	1.6420E-01	1.5921E-01
1983	5.8660E-03	7.5015E-01	7.7680E-01	8.1489E+00	7.5350E-02	1.3347E-01
1984	1.2900E-02	3.8631E-01	6.6300E-01	4.5672E+00	1.3510E-01	1.6290E-01
1985	1.6730E-02	2.0609E-01	2.2200E+00	3.8704E+00	2.6570E-02	1.0074E-01
1986	7.6190E-03	1.0902E-01	1.9190E+00	3.3007E+00	5.1360E-02	8.7070E-02
1987	3.3950E-02	7.8886E-02	4.1740E-01	1.9585E+00	1.1350E-02	5.1825E-02
1988	1.1440E-02	4.7774E-02	1.3150E-01	1.0779E+00	1.8750E-02	3.9352E-02
TOTAL	3.2856E+01		1.0803E+03		1.3103E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ru-106

H Area
Liquid to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955	9.0000E+00	6.3816E+00
1956	1.4000E+01	1.3136E+01
1957	2.5800E+01	2.4898E+01
1958	1.7400E+01	2.4856E+01
1959	8.8900E+01	7.5534E+01
1960	1.7000E+01	5.0031E+01
1961	1.6800E+01	3.7067E+01
1962	3.5440E+01	4.3766E+01
1963	5.2480E+01	5.9217E+01
1964	3.0300E+01	5.1258E+01
1965	1.4590E+01	3.6117E+01
1966	3.2530E+01	4.1225E+01
1967	1.3160E+01	3.0058E+01
1968	5.3100E+01	5.2764E+01
1969	3.9130E+01	5.4275E+01
1970	1.2150E+01	3.5904E+01
1971	2.0360E+01	3.2488E+01
1972	1.2930E+01	2.5503E+01
1973	7.2200E+00	1.7942E+01
1974	1.1370E+01	1.7083E+01
1975	2.2570E+00	1.0189E+01
1976	5.7690E+00	9.2136E+00
1977	1.7250E+00	5.8556E+00
1978	6.3940E+00	7.4779E+00
1979	4.6580E+00	7.0626E+00
1980	1.3430E+00	4.5032E+00
1981	3.1270E+00	4.4814E+00
1982	1.9480E+00	3.6344E+00
1983	1.9020E+00	3.1760E+00
1984	6.1800E-01	2.0350E+00
1985	5.7420E+00	5.0947E+00
1986	6.1600E+00	6.9294E+00
1987	5.5950E-01	3.8807E+00
1988	5.1190E-02	1.9874E+00

TOTAL 5.6591E+02

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sb-124

	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970			1.6000E+00	1.9534E-01		
1971	4.0000E-02	4.8836E-03	8.0500E+00	9.8573E-01	8.0000E-04	9.7672E-05
1972		7.2794E-05		1.4693E-02		1.4559E-06
1973		1.0851E-06		2.1901E-04		
1974				3.2646E-06		
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	4.0000E-02		9.6500E+00		8.0000E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sb-124

R Area
Liquid to Stream

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964	7.5000E+00	9.1567E-01
1965		1.3649E-02
1966		2.0345E-04
1967		3.0326E-06
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
TOTAL	7.5000E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sb-124, 125

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972						
1973	1.0000E-02	8.8241E-03			5.0000E-02	4.4120E-02
1974		6.8708E-03			3.0000E-02	6.0826E-02
1975	1.0000E-03	6.2323E-03				4.7362E-02
1976		4.8528E-03				3.6878E-02
1977		3.7786E-03				2.8715E-02
1978		2.9422E-03				2.2359E-02
1979		2.2909E-03				1.7410E-02
1980		1.7838E-03				1.3556E-02
1981		1.3890E-03	8.1300E-04	7.1740E-04		1.0555E-02
1982		1.0815E-03	5.6340E-03	5.5301E-03		8.2188E-03
1983		8.4211E-04	1.5290E-03	5.6552E-03		6.3995E-03
1984		6.5570E-04		4.4034E-03		4.9830E-03
1985		5.1056E-04		3.4287E-03		3.8800E-03
1986		3.9754E-04		2.6697E-03		3.0211E-03
1987		3.0955E-04		2.0788E-03		2.3524E-03
1988		2.4103E-04		1.6186E-03		1.8317E-03
TOTAL	1.1000E-02		7.9760E-03		8.0000E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Sb-124, 125

	<u>H Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972					7.1000E-01	6.2651E-01
1973	3.1000E-01	2.7355E-01			1.9300E-01	6.5813E-01
1974	1.4000E-01	3.3653E-01			2.4800E-01	7.3129E-01
1975	7.1000E-02	3.2469E-01			3.7000E-02	6.0206E-01
1976	9.8000E-02	3.3929E-01			1.2400E-01	5.7821E-01
1977	2.5000E-02	2.8625E-01	4.8000E-05	4.2356E-05	3.7680E-02	4.8347E-01
1978	4.1650E-02	2.5964E-01		3.2980E-05	2.0820E-02	3.9482E-01
1979	5.5000E-02	2.5070E-01		2.5680E-05	1.4520E-02	3.2024E-01
1980	3.0000E-03	1.9785E-01		1.9995E-05	1.3590E-02	2.6135E-01
1981	1.2000E-01	2.5995E-01		1.5569E-05	7.8820E-03	2.1045E-01
1982	5.6130E-02	2.5194E-01		1.2123E-05	6.2480E-03	1.6938E-01
1983	6.4580E-02	2.5315E-01		9.4395E-06	4.4170E-03	1.3578E-01
1984	1.3000E-02	2.0859E-01		7.3500E-06	3.2230E-03	1.0857E-01
1985	9.0000E-03	1.7036E-01		5.7230E-06	1.6110E-03	8.5960E-02
1986	5.9640E-03	1.3791E-01		4.4562E-06	2.2540E-03	6.8922E-02
1987		1.0738E-01		3.4698E-06	1.1290E-04	5.3765E-02
1988		8.3614E-02		2.7017E-06		4.1864E-02
TOTAL	1.0123E+00		4.8000E-05		1.4244E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960				
1961				
1962				
1963				
1964				
1965				
1966				
1967				
1968				
1969				
1970				
1971				
1972				
1973	1.1000E-02	9.7065E-03		
1974		7.5579E-03		
1975		5.8849E-03		
1976		4.5823E-03		
1977	8.3400E-04	4.3039E-03		
1978		3.3512E-03		
1979		2.6094E-03		
1980		2.0318E-03	2.1500E-04	1.8972E-04
1981		1.5820E-03		1.4772E-04
1982		1.2319E-03	2.9860E-03	2.7409E-03
1983		9.5918E-04	2.0030E-03	3.9087E-03
1984		7.4686E-04	1.2220E-02	1.3826E-02
1985		5.8154E-04	6.6000E-05	1.0824E-02
1986		4.5281E-04	9.9100E-04	9.3026E-03
1987		3.5258E-04	6.5230E-05	7.3010E-03
1988		2.7453E-04		5.6849E-03
TOTAL	1.1834E-02		1.8546E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

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	<u>H Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Containment Basin</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963	1.0000E-01	8.8241E-02				
1964	1.0000E-01	1.5895E-01				
1965		1.2221E-01				
1966		9.5156E-02				
1967		7.4093E-02				
1968		5.7692E-02				
1969		4.4922E-02				
1970		3.4978E-02				
1971		2.7235E-02	4.1000E-04	3.6179E-04	1.1100E+00	9.7947E-01
1972	8.6000E-01	7.8008E-01		2.8170E-04		7.6266E-01
1973		6.0740E-01		2.1935E-04		5.9384E-01
1974		4.7295E-01		1.7079E-04		4.6239E-01
1975		3.6826E-01		1.3299E-04		3.6004E-01
1976		2.8675E-01		1.0355E-04		2.8034E-01
1977		2.2327E-01		8.0629E-05		2.1829E-01
1978		1.7385E-01		6.2781E-05		1.6997E-01
1979		1.3537E-01		4.8884E-05		1.3235E-01
1980		1.0540E-01		3.8064E-05		1.0305E-01
1981		8.2072E-02		2.9638E-05	1.6000E+00	1.4921E+00
1982		6.3905E-02		2.3077E-05		1.1618E+00
1983		4.9759E-02		1.7969E-05		9.0464E-01
1984		3.8745E-02		1.3992E-05		7.0439E-01
1985		3.0168E-02		1.0894E-05		5.4847E-01
1986		2.3490E-02		8.4829E-06		4.2706E-01
1987		1.8291E-02		6.6052E-06		3.3253E-01
1988		1.4242E-02		5.1431E-06		2.5892E-01
TOTAL	1.0600E+00		4.1000E-04		2.7100E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

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	<u>F-Area Migration</u> <u>Seepage Basins to Stream</u>		<u>Combined F & H Area</u> <u>Atmospheric</u>		<u>H-Area Migration</u> <u>Seepage Basins to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955			2.1150E-01	2.1150E-01		
1956			2.1150E-01	4.2300E-01		
1957			2.1150E-01	6.3450E-01		
1958			2.1150E-01	8.4600E-01		
1959			2.1150E-01	1.0575E+00		
1960			2.1150E-01	1.2690E+00		
1961			2.1150E-01	1.4805E+00		
1962			2.1150E-01	1.6920E+00		
1963			2.1150E-01	1.9035E+00		
1964			2.1150E-01	2.1150E+00		
1965			2.1150E-01	2.3265E+00		
1966			2.1150E-01	2.5380E+00		
1967			2.1150E-01	2.7495E+00		
1968			2.1150E-01	2.9610E+00		
1969			2.1160E-01	3.1726E+00		
1970			2.1150E-01	3.3841E+00		
1971			2.1150E-01	3.5956E+00		
1972			2.1150E-01	3.8071E+00		
1973			2.1150E-01	4.0186E+00		
1974			1.7000E-01	4.1886E+00		
1975			1.4000E-01	4.3286E+00		
1976			1.5000E-01	4.4786E+00		
1977			1.4000E-01	4.6186E+00		
1978			1.3000E-01	4.7486E+00		
1979			1.3000E-01	4.8786E+00		
1980	1.0000E-02	1.0000E-02	1.6000E-01	5.0386E+00	1.0000E-02	1.0000E-02
1981	1.1000E-02	2.1000E-02	1.6000E-01	5.1986E+00	1.1000E-02	2.1000E-02
1982	1.1000E-02	3.2000E-02	5.9000E-02	5.2576E+00	1.1000E-02	3.2000E-02
1983	1.1000E-02	4.3000E-02	4.1000E-02	5.2986E+00	1.1000E-02	4.3000E-02
1984	1.1000E-02	5.4000E-02	3.5400E-02	5.3340E+00	1.1000E-02	5.4000E-02
1985	1.1000E-02	6.5000E-02	6.5000E-02	5.3990E+00	1.1000E-02	6.5000E-02
1986	1.1000E-02	7.6000E-02	8.7000E-02	5.4860E+00	1.1000E-02	7.6000E-02
1987	1.1000E-02	8.7000E-02	7.2000E-02	5.5580E+00	1.1000E-02	8.7000E-02
1988	1.1000E-02	9.8000E-02	6.3000E-02	5.6210E+00	1.1000E-02	9.8000E-02
TOTAL	9.8000E-02		5.6210E+00		9.8000E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	A Area Atmospheric		C Area Atmospheric		C Area Liquid to Stream	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955						
1956						
1957						
1958	2.9300E+00	4.2550E-07				
1959	1.0000E-01					
1960	1.8000E-02				2.3200E+00	3.3691E-07
1961	3.4500E-01				4.3100E+00	6.2591E-07
1962	1.1500E-01				2.2900E+00	3.3256E-07
1963	9.0000E-03				3.9900E+00	5.7944E-07
1964	1.6470E+00	2.3918E-07			4.1000E-01	
1965	7.3000E-01	1.0601E-07			3.9000E-01	
1966	1.7700E-02				1.5200E+00	2.2074E-07
1967	1.7200E-01				1.1800E+00	1.7136E-07
1968	1.9200E-02				6.2000E-01	
1969	3.7500E-03				5.0000E-01	
1970	8.7500E-02				2.0200E+00	2.9335E-07
1971	1.8060E-02				1.3200E+00	1.9169E-07
1972	2.4840E-02				8.0000E-01	1.1618E-07
1973	3.1150E-02		9.2900E-03		5.6000E-02	
1974	2.5580E-02		9.1000E-04		1.4000E-02	
1975	7.7320E-03		8.1900E-04			
1976	1.3130E-02		2.4090E-03		2.0000E-03	
1977	5.0370E-03		4.9360E-03		5.1860E-03	
1978	8.7000E-03		1.3070E-03			
1979	3.2090E-03		2.3600E-03			
1980	4.1860E-03		6.8750E-03			
1981	3.2180E-03		2.0699E-03			
1982	1.9670E-03		6.3670E-03			
1983	2.6950E-03		2.8000E-03			
1984	2.1040E-03		1.7850E-03			
1985	1.1330E-03		9.4000E-05			
1986	2.4700E-03					
1987	4.3210E-03					
1988	2.1290E-03					
TOTAL	6.3558E+00		4.2012E-02		2.1747E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>F Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955			3.1200E+01	4.5309E-06	2.0300E+02	2.9480E-05
1956			6.8800E+02	9.9913E-05	4.0300E+02	5.8524E-05
1957			4.6000E+01	6.6802E-06	7.2000E+01	1.0456E-05
1958					1.8000E+00	2.6140E-07
1959			1.2800E+02	1.8588E-05	2.3100E+01	3.3546E-06
1960			7.2850E+00	1.0579E-06	5.1000E+00	7.4063E-07
1961			1.6100E+02	2.3381E-05	1.5730E+02	2.2843E-05
1962			6.4290E+00	9.3363E-07	6.9100E+00	1.0035E-06
1963			1.0260E+00	1.4900E-07	1.5900E+00	2.3090E-07
1964			3.5520E+00	5.1583E-07	1.0590E+01	1.5379E-06
1965			1.4960E+00	2.1725E-07	2.6400E+00	3.8339E-07
1966			1.3210E+01	1.9184E-06	4.0900E+00	5.9396E-07
1967			1.3240E+01	1.9227E-06	4.4400E+00	6.4479E-07
1968	2.4000E-01		6.5200E-01		1.6000E-01	
1969			2.6170E+00	3.8005E-07	1.5300E+00	2.2219E-07
1970	7.7000E-01	1.1182E-07	1.3200E+00	1.9169E-07	8.1000E-01	1.1763E-07
1971			2.1500E+00	3.1223E-07	1.8500E+00	2.6866E-07
1972			1.9300E+00	2.8028E-07	1.2800E+00	1.8588E-07
1973			7.7600E-01	1.1269E-07	1.7900E+00	2.5995E-07
1974			1.8770E+00	2.7258E-07	1.7000E-01	
1975			1.3840E-02		2.4000E-02	
1976			2.0070E-02		4.0000E-03	
1977			3.7750E-02		1.5000E-02	
1978	3.3920E-04		1.5030E-02		4.1580E-04	
1979	1.7680E-03		1.0220E-02			
1980	1.4100E-03		1.9340E-03			
1981	7.1210E-03		3.2640E-02		2.3470E-03	
1982	6.4790E-03		8.4790E-02		1.0130E-02	
1983	5.3100E-03		6.9300E-02		1.7750E-02	
1984	4.9400E-04		2.7190E-01		7.4000E-02	
1985			5.5050E-02		3.0000E-03	
1986			7.7660E-03		2.6560E-04	
1987						
1988						
TOTAL	1.0329E+00		1.1124E+03		9.0330E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>H Area Atmospheric</u>		<u>H Area Liquid to Seepage Basins</u>		<u>K Area Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	3.9000E+01	5.5184E-06	2.8600E+02	4.1533E-05		
1956	8.8800E+02	1.2896E-04	5.3600E+02	7.7839E-05		
1957	2.4600E+02	3.5725E-05	7.9800E+02	1.1589E-04		
1958	1.7000E+01	2.4688E-06	2.3000E+01	3.3401E-06		
1959	3.4000E+01	4.9375E-06	3.7000E+01	5.3732E-06		
1960			3.1600E-01			
1961	5.8700E-01		2.8000E-01			
1962	1.0120E+01	1.4696E-06	2.7000E-01			
1963	3.7860E+00	5.4981E-07	1.3200E+00	1.9169E-07		
1964	6.4090E+00	9.3073E-07	1.1000E+00	1.5974E-07		
1965	1.5840E+01	2.3003E-06	5.9200E+00	8.5971E-07		
1966	1.8390E+01	2.6706E-06	1.2980E+01	1.8850E-06		
1967	6.6880E+00	9.7124E-07	3.5000E-01			
1968	2.1450E+01	3.1150E-06	6.0000E-02			
1969	3.3330E+01	4.8402E-06	1.0000E-02			
1970	3.2960E+01	4.7865E-06	4.4100E+00	6.1043E-07		
1971	2.4450E+01	3.5507E-06	9.7000E-01	1.4097E-07		
1972	7.8000E-01	1.1327E-07	1.6300E+00	2.3671E-07	7.3900E-03	
1973	1.0230E+00	1.4856E-07	1.1200E+00	1.6265E-07	9.5400E-03	
1974	8.0000E-03		1.8000E-01		9.4000E-04	
1975	9.9360E-02		1.9900E-01		7.0700E-04	
1976	1.1720E-01		1.1300E-01		4.9200E-04	
1977	1.1650E-02		1.4000E-02		3.2900E-04	
1978	3.8530E-02		3.5010E-02		9.1000E-04	
1979	6.2000E-02		4.4000E-02		1.0080E-03	
1980	3.2870E-03				3.6940E-03	
1981	4.1770E-03				1.5170E-03	
1982	1.1380E-02		2.3620E-02		6.0300E-04	
1983	5.3240E-03		1.4400E-03		2.6000E-03	
1984	2.8060E-03		3.0000E-03		6.3000E-05	
1985	1.6400E-04				4.9100E-04	
1986	1.6000E-05				5.1280E-03	
1987	2.4000E-05				5.2300E-04	
1988					1.8900E-04	
TOTAL	1.3992E+03		1.7113E+03		3.6124E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	6.0200E+00	8.7424E-07				
1961	5.9400E+00	8.6262E-07				
1962	2.5400E+00	3.6886E-07				
1963	8.5000E-01	1.2344E-07				
1964	1.5000E-01					
1965	8.4000E-01	1.2199E-07	2.0000E-03			
1966	2.7000E-01					
1967	7.0700E+00	1.0267E-06				
1968	6.0100E+00	8.7278E-07			3.6800E+00	5.3442E-07
1969	4.0000E-01				1.4410E+01	2.0926E-06
1970					3.2300E+00	4.6907E-07
1971						
1972					1.3000E-01	
1973	9.0000E-03				1.4100E-01	
1974					1.0000E-03	
1975					3.0000E-03	
1976						
1977					1.4400E-04	
1978					1.4450E-03	
1979					3.2300E-04	
1980					8.2800E-04	
1981					3.4000E-05	
1982					3.2270E-03	
1983						
1984					1.0250E-03	
1985					1.7490E-03	
1986					4.4730E-03	
1987					1.4240E-03	
1988						
TOTAL	3.0099E+01		2.0000E-03		2.1610E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>L Area Atmospheric</u>		<u>L Area Liquid to Stream</u>		<u>L Area Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			3.3000E+00	4.7923E-07		
1961			7.0300E+00	1.0209E-06		
1962			1.8500E+00	2.6866E-07		
1963			3.7200E+00	5.4023E-07		
1964			7.7700E+00	1.1284E-06		
1965			4.0900E+00	5.9396E-07		
1966			1.2100E+00	1.7572E-07		
1967			5.2900E+00	7.6822E-07	9.9000E-01	1.4377E-07
1968			4.0000E-01			
1969						
1970						
1971						
1972						
1973						
1974						
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985					1.9000E-05	
1986	8.4000E-05					
1987	3.3000E-04				1.2530E-03	
1988	3.0700E-04				2.1560E-03	
TOTAL	7.2100E-04		3.4660E+01		9.9343E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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	<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Atmospheric</u>		<u>P Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957					6.5000E+01	9.4394E-06
1958						
1959						
1960					4.4500E+00	6.4624E-07
1961					2.5900E+00	3.7612E-07
1962					7.6930E+01	1.1172E-05
1963					2.5500E+00	3.7032E-07
1964	7.6000E-01	1.1037E-07			1.0000E-01	
1965					7.0000E-02	
1966					2.0000E-02	
1967					8.0000E-02	
1968					2.4600E+00	3.5725E-07
1969					4.1200E+00	5.9831E-07
1970					1.5000E-01	
1971	4.0000E-04				2.1000E-01	
1972					1.3000E-01	
1973			6.7100E-03		9.0000E-02	
1974			1.4600E-03			
1975			1.0290E-03			
1976			2.1570E-03			
1977			1.1660E-03		7.2200E-03	
1978			9.5100E-04		7.2560E-04	
1979			5.5460E-03			
1980			5.1440E-03			
1981			3.4080E-03			
1982			9.2300E-04			
1983			1.3360E-03			
1984			3.7480E-03			
1985			3.5300E-03			
1986			1.0870E-02			
1987			7.3870E-03			
1988						
TOTAL	7.6040E-01		5.5365E-02		1.5896E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

I-131

	<u>P Area</u>		<u>R Area</u>	
	<u>Purges to Seepage Basins</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960			8.2500E+00	1.1981E-06
1961			8.9000E+00	1.2925E-06
1962			3.4900E+00	5.0682E-07
1963			3.5340E+01	5.1321E-06
1964			2.7000E-01	
1965				
1966				
1967				
1968				
1969				
1970				
1971				
1972				
1973				
1974				
1975				
1976				
1977				
1978				
1979	1.8750E-02			
1980	1.5040E-02			
1981	1.1170E-02			
1982	3.7890E-02			
1983	1.6420E-02			
1984	4.1060E-02			
1985	2.7600E-02			
1986	2.8570E-03			
1987	3.0010E-02			
1988				
TOTAL	2.0080E-01		5.6250E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

I-133

A Area
Atmospheric

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973	1.0210E-02	
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		

TOTAL 1.0210E-02

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Xe-131m

Combined F & H Area
Atmospheric

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960	6.9000E+02	1.5712E-02
1961	5.0000E+02	1.1386E-02
1962	2.9000E+02	6.6037E-03
1963	1.4000E+02	3.1880E-03
1964	1.7000E+02	3.8711E-03
1965	6.1000E+02	1.3891E-02
1966	2.6000E+02	5.9206E-03
1967	1.8900E+03	4.3038E-02
1968	9.3000E+02	2.1177E-02
1969	8.5000E+02	1.9356E-02
1970	1.0000E+03	2.2771E-02
1971	1.0870E+03	2.4753E-02
1972	2.9240E+02	6.6584E-03
1973	5.1070E+02	1.1629E-02
1974	1.3500E+02	3.0741E-03
1975	5.8000E+00	1.3207E-04
1976	6.3080E+02	1.4364E-02
1977	1.2120E+01	2.7599E-04
1978	7.0840E+00	1.6131E-04
1979	9.1130E+00	2.0752E-04
1980	1.9300E-01	4.3949E-06
1981	6.4170E+00	1.4162E-04
1982	5.8600E+01	1.3344E-03
1983	1.9580E+01	4.4587E-04
1984	1.8400E+01	4.1899E-04
1985	5.0000E+00	1.1386E-04
1986	3.0000E-01	
1987		
1988		
TOTAL	1.1028E+04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Xe-133

	<u>C Area Atmospheric</u>		<u>Combined F & H Area Atmospheric</u>		<u>K Area Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954			6.0000E+00			
1955	3.6000E+01		2.0000E+01		3.6000E+01	
1956	7.2000E+01		4.0000E+01		7.2000E+01	
1957	1.8000E+01		1.0000E+01		1.8000E+01	
1958	4.6800E+02		2.6000E+02		4.6800E+02	
1959	9.0000E+02		5.0000E+02		9.0000E+02	
1960	1.4000E+03		4.1000E+02		1.4000E+03	
1961	7.2000E+02		4.2000E+02		7.2000E+02	
1962	4.6800E+02		2.6000E+02		4.6800E+02	
1963	1.5100E+03		8.5000E+02		1.5100E+03	
1964	3.6000E+02		2.0000E+02		3.6000E+02	
1965	9.5000E+02		4.2000E+02		9.5000E+02	
1966	1.0000E+04	3.2984E-07	4.3000E+03	1.4183E-07	1.0000E+04	3.2984E-07
1967	3.3500E+04	1.1050E-06	1.4000E+04	4.6178E-07	3.3500E+04	1.1050E-06
1968	1.1000E+04	3.6283E-07	5.2000E+03	1.7152E-07	1.1000E+04	3.6283E-07
1969	6.6000E+03	2.1770E-07	2.2000E+03		6.6000E+03	2.1770E-07
1970	5.4000E+03	1.7811E-07	1.8000E+03		5.4000E+03	1.7811E-07
1971	5.0000E+03	1.6492E-07	2.7480E+03		3.5000E+03	1.1544E-07
1972	8.3000E+03	2.7377E-07	7.7300E+00		1.8470E+04	6.0922E-07
1973	7.0230E+03	2.3165E-07	3.7030E+01		9.7870E+03	3.2282E-07
1974	2.0430E+03		1.2900E+02		3.3030E+03	1.0895E-07
1975	1.7700E+02				6.8000E+02	
1976	7.2100E+02		9.0190E+02		4.1700E+02	
1977	1.1610E+03		1.3000E-02		2.3800E+02	
1978	7.7400E+02		6.4400E-01		5.1200E+02	
1979	1.0100E+03		2.9000E-01		7.0200E+02	
1980	2.8580E+03				1.0210E+03	
1981	3.8600E+02				1.1100E+03	
1982	8.7800E+02				8.4000E+02	
1983	8.8400E+02		3.2200E-03		5.0400E+02	
1984	4.1100E+02				1.1600E+02	
1985	2.2000E+02				1.1460E+03	
1986					5.7100E+03	1.8834E-07
1987					1.8120E+03	
1988					1.4850E+03	
TOTAL	1.0525E+05		3.4721E+04		1.2476E+05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Xe-133

	<u>L Area</u> <u>Atmospheric</u>		<u>P Area</u> <u>Atmospheric</u>		<u>R Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954			2.7000E+01		2.7000E+01	
1955	3.6000E+01		3.6000E+01		3.6000E+01	
1956	7.2000E+01		7.2000E+01		7.2000E+01	
1957	1.8000E+01		1.8000E+01		1.8000E+01	
1958	4.6800E+02		4.6800E+02		4.6800E+02	
1959	9.0000E+02		9.0000E+02		9.0000E+02	
1960	1.4000E+03		1.4000E+03		1.4000E+03	
1961	7.2000E+02		7.2000E+02		7.2000E+02	
1962	4.6800E+02		4.6800E+02		4.6800E+02	
1963	1.5100E+03		1.5100E+03		1.5100E+03	
1964	3.6000E+02		3.6000E+02		3.6000E+02	
1965	9.5000E+02		9.5000E+02			
1966	1.0000E+04	3.2984E-07	1.0000E+04	3.2984E-07		
1967	3.3500E+04	1.1050E-06	3.3500E+04	1.1050E-06		
1968	1.1000E+04	3.6283E-07	1.1000E+04	3.6283E-07		
1969	6.6000E+03		6.6000E+03	2.1770E-07		
1970	5.4000E+03		5.4000E+03	1.7811E-07		
1971	5.0000E+03		1.4000E+04	4.6178E-07		
1972	8.3000E+03		1.2330E+04	4.0669E-07		
1973	7.0230E+03		5.5960E+03	1.8458E-07		
1974	2.0430E+03		3.2000E+01			
1975	1.7700E+02		2.1500E+02			
1976	7.2100E+02		4.3800E+02			
1977	1.1610E+03		9.0300E+02			
1978	7.7400E+02		9.0300E+02			
1979	1.0100E+03		3.6250E+03	1.1957E-07		
1980	2.8580E+03		3.8780E+03	1.2791E-07		
1981	3.8600E+02		2.4310E+03			
1982	8.7800E+02		2.5300E+03			
1983	8.8400E+02		2.0120E+03			
1984	4.1100E+02		3.1660E+03	1.0443E-07		
1985	2.2000E+02		3.2650E+03	1.0769E-07		
1986			4.5000E+03	1.4843E-07		
1987			3.0540E+03	1.0073E-07		
1988			2.0000E+03			
TOTAL	1.0525E+05		1.3831E+05		5.9790E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Xe-135

	<u>C Area</u> <u>Atmospheric</u>		<u>K Area</u> <u>Atmospheric</u>		<u>L Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	6.0000E+01		6.0000E+01		6.0000E+01	
1956	1.0000E+02		1.0000E+02		1.0000E+02	
1957	2.0000E+01		2.0000E+01		2.0000E+01	
1958	8.0000E+02		8.0000E+02		8.0000E+02	
1959	1.3000E+03		1.3000E+03		1.3000E+03	
1960	1.9200E+03		1.9200E+03		1.9200E+03	
1961	9.4000E+02		9.4000E+02		9.4000E+02	
1962	6.8000E+02		6.8000E+02		6.8000E+02	
1963	2.4000E+03		2.4000E+03		2.4000E+03	
1964	1.6000E+02		1.6000E+02		1.6000E+02	
1965	4.5000E+02		4.5000E+02		4.5000E+02	
1966	5.2500E+02		5.2500E+02		5.2500E+02	
1967	7.4000E+03		7.4000E+03		7.4000E+03	
1968	3.1000E+03		3.1000E+03		3.1000E+03	
1969	1.8000E+03		1.8000E+03			
1970	8.6600E+02		8.6700E+02			
1971	1.1000E+03		7.1000E+02			
1972	2.2800E+03		7.2200E+03			
1973	2.1240E+03		4.5070E+03			
1974	7.0600E+02		1.4440E+03			
1975	2.2200E+02		3.8900E+02			
1976	4.2100E+02		1.4900E+02			
1977	7.7900E+02		1.0800E+02			
1978	6.3000E+02		2.7000E+02			
1979	7.0500E+02		2.7600E+02			
1980	2.3320E+03		4.8900E+02			
1981	3.7000E+02		9.1100E+02			
1982	3.2800E+02		7.5500E+02			
1983	3.2700E+02		3.9700E+02			
1984	1.0400E+02		1.2500E+02			
1985	6.4000E+01		1.3600E+02			
1986			1.6800E+02		2.9000E+02	
1987			2.3000E+01		1.4000E+02	
1988			5.4000E+01		2.3600E+02	
TOTAL	3.5013E+04		4.0653E+04		2.0521E+04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Xe-135

	P Area <u>Atmospheric</u>		R Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954	4.0000E+01		4.0000E+01	
1955	6.0000E+01		6.0000E+01	
1956	1.0000E+02		1.0000E+02	
1957	2.0000E+01		2.0000E+01	
1958	8.0000E+02		8.0000E+02	
1959	1.3000E+03		1.3000E+03	
1960	1.9200E+03		1.9200E+03	
1961	9.4000E+02		9.4000E+02	
1962	6.8000E+02		6.8000E+02	
1963	2.4000E+03		2.4000E+03	
1964	1.6000E+02		1.6000E+02	
1965	4.5000E+02			
1966	5.2500E+02			
1967	7.4000E+03			
1968	3.1000E+03			
1969	1.8000E+03			
1970	8.6700E+02			
1971	2.9000E+03			
1972	2.3000E+03			
1973	2.7480E+03			
1974	2.6000E+01			
1975	1.1600E+02			
1976	1.6300E+02			
1977	6.5500E+02			
1978	7.8500E+02			
1979	3.4820E+03			
1980	3.5500E+03			
1981	1.2510E+03			
1982	1.3400E+03			
1983	1.6350E+03			
1984	2.2460E+03			
1985	1.5950E+03			
1986	2.1430E+03			
1987	3.3180E+03			
1988	2.6860E+03			
TOTAL	5.5501E+04		8.4200E+03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-134

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>F Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971					3.2000E-04	2.7049E-04
1972						1.9326E-04
1973						1.3808E-04
1974	3.8000E-02	3.2120E-02				9.8654E-05
1975	6.0000E-03	2.8021E-02			7.0000E-06	7.6403E-05
1976	1.3000E-02	3.1009E-02				5.4589E-05
1977	5.6730E-03	2.6950E-02			2.0000E-06	4.0693E-05
1978	3.4800E-04	1.9550E-02	8.4800E-04	7.1679E-04	1.9000E-05	4.5134E-05
1979		1.3968E-02	1.5150E-03	1.7927E-03	1.1700E-04	1.3114E-04
1980		9.9798E-03	7.1300E-04	1.8835E-03	1.8100E-04	2.4669E-04
1981		7.1303E-03	6.2630E-03	6.6397E-03	2.3000E-05	1.9570E-04
1982		5.0945E-03	3.1560E-03	7.4116E-03		1.3982E-04
1983		3.6399E-03	1.9420E-03	6.9369E-03	4.0000E-06	1.0328E-04
1984		2.6006E-03	2.4800E-04	5.1659E-03	5.0000E-06	7.8019E-05
1985		1.8581E-03	1.3150E-02	1.4806E-02		5.5743E-05
1986		1.3276E-03	4.2670E-04	1.0939E-02	2.6000E-05	6.1804E-05
1987		9.4853E-04		7.8160E-03	1.8000E-05	5.9373E-05
1988		6.7771E-04		5.5844E-03	3.8000E-05	7.4541E-05
TOTAL	6.3021E-02		2.8262E-02		7.6000E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-134

	F Area <u>Liquid to Seepage Basins</u>		H Area <u>Atmospheric</u>		H Area <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965					2.6400E+00	2.2315E+00
1966					8.5000E-01	2.3128E+00
1967					1.4100E+00	2.8443E+00
1968						2.0322E+00
1969						1.4520E+00
1970						1.0374E+00
1971	1.6000E-01	1.3524E-01	4.7600E-03	4.0235E-03	1.4300E+00	1.9499E+00
1972		9.6628E-02	1.5500E-03	4.1849E-03	9.1000E-01	2.1624E+00
1973		6.9039E-02		2.9900E-03	6.0000E-01	2.0521E+00
1974	3.7000E-01	3.6208E-01	3.0000E-05	2.1617E-03	2.5000E-01	1.6775E+00
1975	7.3000E-02	3.2040E-01	1.9300E-04	1.7076E-03	4.1200E-01	1.5468E+00
1976		2.2892E-01	1.7000E-04	1.3637E-03	4.4000E-01	1.4771E+00
1977	1.4000E-02	1.7539E-01	4.3100E-04	1.3387E-03	2.0600E-01	1.2295E+00
1978	2.7480E-02	1.4854E-01	1.0600E-04	1.0461E-03	6.8500E-01	1.4574E+00
1979	2.8000E-02	1.2980E-01	1.5100E-04	8.7502E-04	1.1120E+00	1.9813E+00
1980	2.0000E-03	9.4429E-02	1.9900E-04	7.9339E-04	6.5000E-02	1.4705E+00
1981	1.3700E-02	7.9048E-02	6.1800E-04	1.0892E-03	5.2410E-02	1.0949E+00
1982	1.7560E-03	5.7962E-02	3.8000E-05	8.1036E-04	4.5510E-02	8.2079E-01
1983	6.2940E-04	4.1945E-02	5.2000E-05	6.2294E-04	8.3420E-02	6.5695E-01
1984	1.0000E-03	3.0814E-02	3.3000E-05	4.7297E-04	1.5700E-01	6.0208E-01
1985		2.2016E-02	3.0000E-05	3.6329E-04	5.3000E-02	4.7498E-01
1986	1.9590E-03	1.7386E-02	6.6820E-04	8.2437E-04	1.2440E-01	4.4451E-01
1987	2.5280E-03	1.4559E-02	3.5500E-02	3.0596E-02	1.1690E-01	4.1641E-01
1988	5.9060E-05	1.0452E-02	6.2000E-04	2.2384E-02	7.9300E-02	3.6454E-01
TOTAL	6.9611E-01		4.5149E-02		1.1722E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-134

	<u>K Area</u>		<u>K Area</u>		<u>L Area</u>	
	<u>Liquid to Stream</u>		<u>Purges to Containment Basin</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972			3.1000E-01	2.6203E-01		
1973			2.3000E-02	2.0666E-01		
1974			2.1000E-02	1.6540E-01		
1975	1.6300E-01	1.3778E-01	7.0000E-03	1.2409E-01		
1976		9.8440E-02	4.3000E-02	1.2501E-01		
1977	2.7030E-02	9.3181E-02	1.5180E-02	1.0215E-01		
1978		6.6576E-02	4.8260E-03	7.7062E-02		
1979		4.7567E-02	2.4420E-03	5.7124E-02		
1980		3.3986E-02	3.0580E-03	4.3398E-02		
1981		2.4282E-02	1.4300E-04	3.1128E-02		
1982		1.7349E-02	2.1400E-04	2.2421E-02		
1983		1.2396E-02	1.0220E-05	1.6028E-02		
1984		8.8564E-03	4.8500E-03	1.5551E-02		
1985		6.3277E-03	4.5900E-04	1.1499E-02	1.7000E-05	1.4370E-05
1986		4.5210E-03	2.6150E-04	8.4370E-03	6.7970E-06	1.6012E-05
1987		3.2302E-03	1.3660E-03	7.1827E-03	4.5590E-04	3.9680E-04
1988		2.3079E-03	4.4750E-04	5.5101E-03	1.5840E-04	4.1740E-04
TOTAL	1.9003E-01		4.3726E-01		6.3810E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-134

	<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972			4.0000E-02	3.3811E-02		
1973			2.0600E-01	1.9828E-01		
1974			2.0000E-02	1.5857E-01		
1975	1.0000E-03	8.4527E-04	6.0000E-03	1.1837E-01		
1976		6.0393E-04	4.0000E-03	8.7954E-02		
1977	3.9000E-05	4.8137E-04	1.4560E-02	7.5148E-02		
1978		3.4393E-04	3.1910E-03	5.6389E-02	3.7500E-03	3.1698E-03
1979		0.00024573		4.0289E-02	9.6490E-03	1.0421E-02
1980		0.00017557		2.8786E-02	1.1650E-03	8.4301E-03
1981		0.00012544		2.0567E-02	4.5860E-03	9.8996E-03
1982		8.9624E-05		1.4695E-02	1.4600E-04	7.1965E-03
1983		6.4035E-05		1.0499E-02	2.5700E-03	7.3141E-03
1984		4.5752E-05		7.5013E-03	7.0260E-03	1.1165E-02
1985		3.2689E-05		5.3595E-03	1.0790E-03	8.8889E-03
1986		2.3355E-05		3.8293E-03	3.9750E-04	6.6870E-03
1987		1.6687E-05		2.7359E-03	1.2210E-03	5.8098E-03
1988		1.1922E-05		1.9548E-03	1.4360E-05	4.1631E-03
TOTAL	1.0590E-03		2.9375E-01		3.1604E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-134, 137

D Area
Liquid to Stream

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974	1.1000E-04	1.0874E-04
1975	2.5290E-03	2.6064E-03
1976	9.8700E-04	3.5229E-03
1977	1.7500E-04	3.6159E-03
1978	1.6400E-04	3.6960E-03
1979	2.7800E-04	3.8869E-03
1980	3.1100E-04	4.1060E-03
1981		4.0128E-03
1982		3.9217E-03
1983	1.0860E-03	4.9062E-03
1984	1.2810E-03	6.0612E-03
1985		5.9235E-03
1986	1.5000E-04	5.9373E-03
1987		5.8025E-03
1988		5.6707E-03
TOTAL	7.0710E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	A Area <u>Atmospheric</u>		A Area <u>Liquid to Seepage Basins</u>		C Area <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954					7.8000E-02	7.7109E-02
1955					7.2000E-02	1.4654E-01
1956					1.3200E-01	2.7370E-01
1957					2.4600E-01	5.1068E-01
1958					2.7720E+00	3.2394E+00
1959					4.7830E+00	7.8942E+00
1960					1.6800E+00	9.3758E+00
1961					4.8400E+00	1.3948E+01
1962					6.9000E-01	1.4313E+01
1963					2.4400E+00	1.6400E+01
1964					2.6000E-01	1.6285E+01
1965						1.5915E+01
1966					6.6000E-01	1.6206E+01
1967					5.0000E-02	1.5887E+01
1968					3.5400E+00	1.9026E+01
1969					9.7300E+00	2.8213E+01
1970					2.2010E-01	2.7790E+01
1971						2.7159E+01
1972					1.3900E-01	2.6680E+01
1973					3.7700E-01	2.6446E+01
1974			9.6000E-04	9.4904E-04	5.8000E-02	2.5903E+01
1975				9.2749E-04	5.7000E-02	2.5371E+01
1976				9.0642E-04	4.2100E-02	2.4837E+01
1977			1.5900E-03	2.4577E-03	5.8180E-03	2.4279E+01
1978			1.8940E-03	4.2742E-03	1.0000E-05	2.3727E+01
1979	2.6350E-03	2.6049E-03	2.6350E-03	6.7821E-03		2.3188E+01
1980		2.5458E-03	2.0590E-03	8.6636E-03	2.2000E-05	2.2662E+01
1981		2.4879E-03	1.0950E-03	9.5493E-03		2.2147E+01
1982		2.4315E-03	7.4700E-04	1.0071E-02		2.1644E+01
1983		2.3762E-03		9.8423E-03		2.1153E+01
1984		2.3223E-03		9.6187E-03		2.0672E+01
1985		2.2695E-03		9.4003E-03		2.0203E+01
1986		2.2180E-03		9.1869E-03		1.9744E+01
1987		2.1676E-03		8.9782E-03		1.9296E+01
1988		2.1184E-03		8.7744E-03		
TOTAL	2.6350E-03		1.0980E-02		3.2872E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	<u>C Area</u>		<u>F Area</u>		<u>F Area</u>	
	<u>Purges to Seepage Basins</u>		<u>Atmospheric</u>		<u>Liquid to Stream</u>	
	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>
1954						
1955			1.5200E-01	1.5026E-01		
1956			8.4160E-02	2.3005E-01		
1957			9.2800E-03	2.3400E-01		
1958			8.1000E-03	2.3669E-01		
1959	8.8200E-01	8.7193E-01	6.1000E-02	2.9162E-01		
1960	3.8100E-01	1.2288E+00	1.1600E-01	3.9968E-01		
1961	1.2000E-01	1.3195E+00	2.3000E-02	4.1334E-01		
1962	2.3400E-02	1.3127E+00	9.0000E-03	4.1285E-01		
1963	2.9400E-01	1.5735E+00	9.9000E-03	4.1326E-01		
1964	2.0000E-02	1.5575E+00	5.1000E-02	4.5429E-01		
1965	8.0000E-03	1.5301E+00	9.8000E-03	4.5367E-01		
1966		1.4953E+00	7.8000E-03	4.5107E-01		
1967		1.4614E+00	6.0000E-03	4.4676E-01		
1968		1.4282E+00	7.0000E-03	4.4354E-01		
1969	6.5000E-02	1.4600E+00	8.7000E-03	4.4207E-01		
1970	1.0000E-02	1.4368E+00	9.8000E-03	4.4172E-01	1.1400E-01	1.1270E-01
1971		1.4041E+00	2.4800E-03	4.3414E-01	2.5200E-01	3.5926E-01
1972		1.3722E+00	4.6000E-04	4.2473E-01	7.1000E-02	4.2129E-01
1973		1.3411E+00	7.5000E-04	4.1583E-01	4.1900E-02	4.5315E-01
1974		1.3106E+00	9.2000E-04	4.0730E-01	3.4760E-02	4.7722E-01
1975		1.2809E+00	5.8600E-04	3.9863E-01	1.1640E-02	4.7789E-01
1976		1.2518E+00	7.0100E-04	3.9027E-01	1.4750E-02	4.8162E-01
1977		1.2234E+00	5.6100E-04	3.8196E-01	9.5700E-03	4.8014E-01
1978	2.0830E-03	1.1976E+00	1.5120E-03	3.7478E-01	2.2450E-02	4.9143E-01
1979	2.2100E-02	1.1923E+00	1.9930E-03	3.6824E-01	3.4910E-02	5.1479E-01
1980	7.8710E-03	1.1730E+00	1.9320E-03	3.6179E-01	2.4880E-02	5.2769E-01
1981	5.9300E-02	1.2050E+00	1.2920E-03	3.5485E-01	9.2020E-02	6.0668E-01
1982	3.8240E-02	1.2154E+00	6.9300E-04	3.4748E-01	1.6200E-02	6.0892E-01
1983	3.0960E-02	1.2184E+00	7.5800E-04	3.4034E-01	1.2500E-02	6.0745E-01
1984	1.1420E-03	1.1919E+00	1.6080E-03	3.3420E-01	9.9160E-03	6.0346E-01
1985	5.1060E-02	1.2153E+00	4.6340E-03	3.3119E-01	1.9510E-02	6.0904E-01
1986	1.9750E-03	1.1896E+00	4.4000E-04	3.2410E-01	2.1500E-02	6.1646E-01
1987		1.1626E+00	5.6100E-04	3.1730E-01	4.8620E-02	6.5053E-01
1988		1.1362E+00	9.2300E-04	3.1101E-01	7.5490E-02	7.1038E-01
TOTAL	2.0181E+00		5.9534E-01		9.2762E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	<u>F Area</u>		<u>H Area</u>		<u>H Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Atmospheric</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	1.8200E-01	1.7992E-01	1.1950E+00	1.1814E+00		
1956	5.7200E-01	7.4130E-01	1.5530E-01	1.3081E+00		
1957	8.4620E-01	1.5610E+00	5.3410E-02	1.3311E+00		
1958	6.7000E-01	2.1879E+00	1.7800E-02	1.3185E+00		
1959	1.0000E+00	3.1268E+00	7.7000E-02	1.3647E+00		
1960	7.0000E+00	9.9759E+00	8.0000E-03	1.3416E+00		
1961	1.7740E+01	2.7287E+01	2.5000E-02	1.3359E+00		
1962	5.7080E+01	8.3095E+01	2.8000E-02	1.3332E+00		
1963	1.5380E+01	9.6413E+01	1.5300E-02	1.3181E+00		
1964	1.5480E+01	1.0953E+02	1.5700E-02	1.3036E+00		
1965	4.3800E+00	1.1137E+02	7.9000E-03	1.2819E+00		
1966	3.9500E+00	1.1275E+02	4.0400E-02	1.2927E+00		
1967	7.2300E+00	1.1733E+02	1.2100E-02	1.2753E+00		
1968	1.8980E+01	1.3343E+02	3.3300E-02	1.2793E+00		
1969	2.2510E+01	1.5265E+02	7.6600E-02	1.3259E+00		
1970	1.2900E+01	1.6194E+02	3.1700E-02	1.3272E+00	3.7000E-02	3.6577E-02
1971	4.8100E+00	1.6302E+02	6.8500E-03	1.3038E+00	4.4000E-02	7.9244E-02
1972	2.7200E+00	1.6201E+02	2.3970E-02	1.2979E+00	3.2000E-02	1.0908E-01
1973	4.1300E+00	1.6241E+02	1.8300E-03	1.2702E+00	1.7460E-02	1.2386E-01
1974	4.7200E+00	1.6339E+02	4.0000E-04	1.2418E+00	1.5890E-02	1.3676E-01
1975	9.7500E-01	1.6064E+02	4.7000E-04	1.2140E+00	7.9900E-03	1.4155E-01
1976	3.1000E-01	1.5730E+02	6.1500E-04	1.1871E+00	7.2100E-03	1.4547E-01
1977	6.1400E-01	1.5433E+02	1.3010E-03	1.1614E+00	8.0500E-03	1.5012E-01
1978	1.0320E+00	1.5185E+02	5.3200E-04	1.1356E+00	1.6080E-02	1.6261E-01
1979	6.0500E-01	1.4900E+02	7.4300E-04	1.1105E+00	1.5210E-02	1.7395E-01
1980	2.7500E-01	1.4589E+02	7.0000E-04	1.0860E+00	5.4000E-03	1.7534E-01
1981	6.3920E-01	1.4321E+02	1.7730E-03	1.0631E+00	8.9700E-03	1.8023E-01
1982	9.2230E-01	1.4087E+02	2.6800E-04	1.0392E+00	8.7800E-03	1.8481E-01
1983	7.3090E-01	1.3839E+02	2.3600E-04	1.0158E+00	1.1690E-01	2.9618E-01
1984	5.4900E-01	1.3579E+02	3.3600E-04	9.9309E-01	2.1160E-01	4.9864E-01
1985	2.8020E+00	1.3548E+02	5.4100E-04	9.7107E-01	9.5190E-03	4.9673E-01
1986	2.9990E+00	1.3537E+02	2.5050E-03	9.5150E-01	1.1830E-02	4.9714E-01
1987	3.8990E+00	1.3615E+02	1.0730E+00	1.9906E+00	7.4570E-03	4.9322E-01
1988	1.4940E+00	1.3453E+02	8.6100E-04	1.9463E+00	4.0140E-02	5.2170E-01
TOTAL	2.2013E+02		2.9094E+00		6.2149E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	<u>H Area</u>		<u>Desorption</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Four Mile Creek Bed to Stream</u>		<u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	5.2000E-01	5.1406E-01			6.6000E-02	6.5246E-02
1956	1.0400E+00	1.5305E+00			1.4400E-01	2.0612E-01
1957	1.2740E+00	2.7552E+00			3.9000E-01	5.8699E-01
1958	5.6000E-01	3.2462E+00			1.8600E-01	7.5753E-01
1959	5.0000E-01	3.6668E+00			1.1520E+00	1.8792E+00
1960	1.0000E+00	4.5721E+00			3.5300E+00	5.3262E+00
1961	3.4500E+00	7.8789E+00			1.8000E+00	6.9847E+00
1962	7.7200E+00	1.5332E+01			4.5700E+00	1.1344E+01
1963	8.2300E+00	2.3120E+01			3.3100E+00	1.4358E+01
1964	4.9100E+00	2.7449E+01			5.6200E+00	1.9588E+01
1965	1.7060E+01	4.3690E+01			2.5000E+00	2.1615E+01
1966	1.2920E+01	5.5471E+01			2.0000E-02	2.1144E+01
1967	1.4590E+01	6.8635E+01	3.2000E+01	3.1635E+01	4.8000E-01	2.1138E+01
1968	1.0030E+01	7.6991E+01	2.0000E+00	3.2893E+01	8.0000E-02	2.0737E+01
1969	6.1200E+00	8.1293E+01	1.9000E+00	3.4025E+01		2.0266E+01
1970	2.4300E+00	8.1849E+01	5.0000E-01	3.3746E+01		1.9806E+01
1971	3.2400E+00	8.3194E+01	1.2000E+00	3.4166E+01	4.5100E-03	1.9361E+01
1972	5.5800E+00	8.6821E+01	1.0000E+00	3.4379E+01	3.0000E-02	1.8951E+01
1973	2.8000E+00	8.7617E+01	5.0000E-01	3.4093E+01	2.9000E-02	1.8549E+01
1974	2.7900E+00	8.8386E+01	1.0000E+00	3.4307E+01		1.8128E+01
1975	6.2250E+00	9.2533E+01	3.0000E-01	3.3825E+01	3.4200E-01	1.8054E+01
1976	8.0610E+00	9.8400E+01	1.5000E-01	3.3205E+01		1.7644E+01
1977	5.5460E+00	1.0165E+02	1.7000E-01	3.2619E+01	1.8640E-01	1.7428E+01
1978	9.2020E+00	1.0844E+02	1.5000E-01	3.2026E+01	2.9220E-06	1.7032E+01
1979	5.5570E+00	1.1147E+02	1.6200E-01	3.1459E+01	5.9000E-05	1.6645E+01
1980	1.4410E+00	1.1036E+02	1.2800E-01	3.0871E+01	2.4500E-03	1.6270E+01
1981	1.8550E+00	1.0969E+02	6.6530E-02	3.0236E+01		1.5900E+01
1982	1.7900E+00	1.0897E+02	1.3500E-01	2.9683E+01		1.5539E+01
1983	2.4760E+00	1.0894E+02	1.8170E-02	2.9027E+01		1.5186E+01
1984	5.2030E+00	1.1161E+02	1.7000E-02	2.8384E+01		1.4842E+01
1985	3.2830E+00	1.1232E+02	7.0000E-02	2.7809E+01		1.4505E+01
1986	8.2550E+00	1.1793E+02	7.2000E-02	2.7249E+01		1.4175E+01
1987	1.1370E+01	1.2649E+02	1.6900E-02	2.6647E+01		1.3853E+01
1988	4.7610E+00	1.2833E+02	4.6000E-03	2.6046E+01		1.3539E+01
TOTAL	1.8179E+02		4.1560E+01		2.4442E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	<u>K Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956					1.6800E-01	1.6608E-01
1957					3.0000E-01	4.5888E-01
1958					7.1400E-01	1.1543E+00
1959	1.2000E-01	1.1863E-01			6.3600E-01	1.7568E+00
1960	1.8600E-02	1.3432E-01			1.5960E+00	3.2947E+00
1961		1.3127E-01			5.2100E+00	8.3704E+00
1962		1.2829E-01			9.6000E-01	9.1294E+00
1963		1.2538E-01			1.3400E+00	1.0247E+01
1964		1.2253E-01			8.9000E-01	1.0894E+01
1965		1.1975E-01			7.7400E+00	1.8298E+01
1966		1.1703E-01			1.3300E+00	1.9197E+01
1967		1.1437E-01			9.3000E-01	1.9681E+01
1968		1.1177E-01	1.0000E-02	9.8858E-03	6.8000E-01	1.9906E+01
1969		1.0924E-01	2.6700E+00	2.6492E+00	2.2000E-01	1.9672E+01
1970		1.0676E-01	8.1200E+00	1.0616E+01	3.4400E+00	2.2626E+01
1971		1.0433E-01	5.8000E-01	1.0949E+01	3.1800E+00	2.5256E+01
1972		1.0196E-01	5.4000E-01	1.1234E+01		2.4682E+01
1973		9.9647E-02	1.3400E-01	1.1111E+01		2.4122E+01
1974		9.7384E-02	8.1000E-02	1.0939E+01		2.3574E+01
1975		9.5173E-02	8.4000E-02	1.0774E+01		2.3038E+01
1976		9.3012E-02	4.2000E-01	1.0944E+01		2.2515E+01
1977		9.0900E-02	8.2330E-02	1.0777E+01		2.2004E+01
1978		8.8835E-02	2.9560E-02	1.0561E+01		2.1504E+01
1979		8.6818E-02	2.1030E-02	1.0342E+01		2.1016E+01
1980		8.4847E-02	5.3050E-02	1.0160E+01		2.0539E+01
1981		8.2920E-02	2.1900E-02	9.9510E+00	5.5210E-02	2.0072E+01
1982		8.1037E-02	1.4170E-02	9.7390E+00	5.5900E-04	1.9671E+01
1983		7.9197E-02	3.2130E-02	9.5496E+00	4.4600E-04	1.9225E+01
1984		7.7398E-02	2.2750E-02	9.3552E+00	1.0000E-06	1.8789E+01
1985		7.5641E-02	1.1770E-02	9.1544E+00		1.8362E+01
1986		7.3923E-02	1.0100E-02	8.9565E+00		1.7945E+01
1987		7.2244E-02	3.4920E-02	8.7877E+00		1.7538E+01
1988		7.0604E-02	2.0050E-02	8.6079E+00		1.7139E+01
TOTAL	1.3860E-01		1.2993E+01		2.9390E+01	1.6750E+01

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>L Area</u> <u>L-Lake Overflow to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958	1.8600E-01	1.8388E-01				
1959	2.4000E-02	2.0343E-01				
1960	3.3000E-02	2.3143E-01				
1961	1.2000E-04	2.2629E-01	1.5780E-01	1.5600E-01		
1962	1.8000E-04	2.2133E-01	1.2660E-01	2.7761E-01		
1963	8.5800E-01	1.0645E+00	9.2400E-01	1.1848E+00		
1964	2.0000E-02	1.0601E+00	6.0000E-02	1.2172E+00		
1965		1.0360E+00	3.4000E-01	1.5256E+00		
1966		1.0125E+00	5.0000E-03	1.4959E+00		
1967	4.0000E-03	9.9347E-01	4.0000E-03	1.4659E+00		
1968		9.7091E-01		1.4326E+00		
1969		9.4886E-01		1.4001E+00		
1970		9.2731E-01		1.3683E+00		
1971		9.0626E-01	3.0000E-04	1.3375E+00		
1972		8.8568E-01		1.3072E+00		
1973		8.6556E-01		1.2775E+00		
1974		8.4591E-01		1.2485E+00		
1975		8.2670E-01	2.0000E-03	1.2221E+00		
1976		8.0793E-01		1.1943E+00		
1977		7.8958E-01	4.0500E-04	1.1676E+00		
1978		7.7165E-01	4.3070E-05	1.1411E+00		
1979		7.5413E-01	8.6400E-04	1.1161E+00		
1980		7.3700E-01		1.0907E+00		
1981		7.2027E-01		1.0660E+00		
1982		7.0391E-01		1.0418E+00		
1983		6.8793E-01		1.0181E+00		
1984		6.7230E-01		9.9499E-01		
1985	1.5000E-04	6.5719E-01		9.7239E-01		
1986	3.9310E-04	6.4265E-01		9.5031E-01		
1987	1.5320E-03	6.2957E-01		9.2873E-01	6.5400E-02	6.4653E-02
1988	9.6250E-04	6.1623E-01		9.0764E-01	2.8000E-01	3.3999E-01
TOTAL	1.1283E+00		1.6210E+00		3.4540E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>		<u>P-Area Migration</u> <u>Seepage Basins to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	1.6800E-01	1.6608E-01				
1956	3.9000E-01	5.4786E-01				
1957	1.1280E+00	1.6505E+00	1.9200E-01	1.8981E-01		
1958	5.3400E-01	2.1410E+00	6.0000E-03	1.9143E-01		
1959	7.2000E-01	2.8041E+00	1.7940E+01	1.7922E+01		
1960	4.8100E+00	7.4955E+00	3.6600E-01	1.7877E+01		
1961	4.2100E+00	1.1487E+01	1.9860E-01	1.7667E+01		
1962	1.3680E+01	2.4750E+01	8.9400E-02	1.7355E+01		
1963	9.0300E+00	3.3115E+01		1.6960E+01		
1964	4.5600E+01	7.7442E+01	2.0000E-02	1.6595E+01		
1965	2.9760E+01	1.0510E+02	7.0000E-03	1.6225E+01		
1966	3.5730E+01	1.3804E+02	1.0000E-03	1.5858E+01		
1967	4.5090E+01	1.7948E+02		1.5498E+01		
1968	4.1110E+01	2.1604E+02	2.8000E-01	1.5423E+01		
1969	1.3070E+01	2.2406E+02		1.5072E+01		
1970	7.7000E+00	2.2658E+02	3.0000E-02	1.4760E+01		
1971	1.3400E+00	2.2276E+02		1.4425E+01		
1972	1.7000E-01	2.1787E+02		1.4097E+01		
1973	1.9000E-01	2.1311E+02		1.3777E+01		
1974	7.2000E-02	2.0834E+02		1.3464E+01		
1975	4.0000E-02	2.0365E+02		1.3158E+01		
1976	7.4000E-02	1.9910E+02		1.2859E+01		
1977	9.3900E-02	1.9467E+02		1.2567E+01		
1978	1.9900E-02	1.9027E+02	2.4730E-02	1.2307E+01		
1979		1.8595E+02	7.2570E-03	1.2034E+01		
1980		1.8173E+02	1.4850E-02	1.1776E+01		
1981		1.7760E+02	7.3280E-02	1.1581E+01		
1982		1.7357E+02	5.5330E-02	1.1372E+01		
1983		1.6963E+02	2.5790E-02	1.1140E+01		
1984		1.6578E+02	1.2820E-01	1.1013E+01		
1985		1.6201E+02	5.0180E-02	1.0813E+01		
1986		1.5833E+02	8.6320E-03	1.0576E+01		
1987		1.5474E+02	2.7940E-02	1.0363E+01	2.9200E-02	2.8867E-02
1988		1.5122E+02	4.6040E-04	1.0128E+01	2.7600E-03	3.0940E-02
TOTAL	2.5473E+02		1.9547E+01		3.1960E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cs-137

	P Area <u>Par Pond Overflow to Stream</u>		R Area <u>Liquid to Stream</u>		R Area <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954			1.8000E-01	1.7794E-01		
1955			1.9200E-01	3.6371E-01		
1956			9.1200E-01	1.2570E+00		
1957			4.6950E+01	4.7642E+01	7.8800E+02	7.7900E+02
1958			1.6200E+00	4.8162E+01	9.9000E+01	8.5918E+02
1959			1.6980E+00	4.8747E+01	1.3000E+01	8.5252E+02
1960			1.6470E+01	6.3922E+01		8.3316E+02
1961			1.0300E+01	7.2653E+01		8.1424E+02
1962			1.3160E+01	8.4013E+01	4.8000E-03	7.9576E+02
1963			8.3440E+01	1.6459E+02	6.0000E-03	7.7769E+02
1964			4.7140E+01	2.0746E+02	8.1000E-01	7.6083E+02
1965				2.0275E+02		7.4356E+02
1966				1.9814E+02		7.2667E+02
1967				1.9364E+02		7.1017E+02
1968				1.8924E+02		6.9404E+02
1969				1.8495E+02		6.7828E+02
1970				1.8075E+02		6.6288E+02
1971				1.7664E+02		6.4783E+02
1972				1.7263E+02		6.3312E+02
1973				1.6871E+02		6.1874E+02
1974				1.6488E+02		6.0469E+02
1975				1.6114E+02		5.9096E+02
1976				1.5748E+02		5.7754E+02
1977				1.5390E+02		5.6442E+02
1978				1.5041E+02		5.5161E+02
1979				1.4699E+02		5.3908E+02
1980				1.4365E+02		5.2684E+02
1981				1.4039E+02		5.1487E+02
1982				1.3720E+02		5.0318E+02
1983				1.3409E+02		4.9176E+02
1984				1.3104E+02		4.8059E+02
1985				1.2807E+02		4.6968E+02
1986				1.2516E+02		4.5901E+02
1987	2.1300E-01	2.1057E-01		1.2232E+02		4.4859E+02
1988	1.6100E-01	3.6495E-01		1.1954E+02		4.3840E+02
TOTAL	3.7400E-01		2.2206E+02		9.0082E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

Cs-137

Central Shops
Liquid to Seepage Basins

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980	3.0000E-06	2.9657E-06
1981	1.4000E-05	1.6739E-05
1982	4.5000E-05	6.0845E-05
1983	1.1300E-04	1.7117E-04
1984	7.0000E-05	2.3649E-04
1985		2.3112E-04
1986		2.2587E-04
1987		2.2074E-04
1988		2.1573E-04
TOTAL	2.4500E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

Ba, La-140

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	3.2300E+00	1.6206E-04			7.7400E+00	3.8835E-04
1961	4.2400E+00	2.1274E-04			2.7200E+00	1.3647E-04
1962	6.3000E-01	3.1610E-05			2.9200E+00	1.4651E-04
1963	1.4600E+00	7.3255E-05			1.4600E+00	7.3255E-05
1964	3.0000E-01	1.5052E-05			1.8000E-01	9.0314E-06
1965	9.2000E-01	4.6161E-05			4.8100E+00	2.4134E-04
1966	9.8000E-01	4.9171E-05	1.4000E-01	7.0244E-06		
1967	1.9500E+00	9.7840E-05			1.4400E+00	7.2251E-05
1968	4.7000E-01	2.3582E-05	3.0000E-02	1.5052E-06	6.7300E+00	3.3767E-04
1969	2.5000E-01	1.2544E-05				
1970	3.2000E-01	1.6056E-05	1.3000E-01	6.5227E-06		
1971	1.3000E-01	6.5227E-06				
1972						
1973						
1974						
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	1.4880E+01		3.0000E-01		2.8000E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ba, La-140

	<u>K Area</u>		<u>L Area</u>		<u>L Area</u>	
	<u>Purges to Containment Basin</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			3.5600E+00	1.7862E-04		
1961			6.7800E+00	3.4018E-04		
1962			7.8100E+00	3.9186E-04		
1963			6.9000E+00	3.4620E-04		
1964			3.4290E+01	1.7205E-03	3.2000E-01	1.6056E-05
1965			4.4100E+00	2.2127E-04		
1966			5.8000E-01	2.9101E-05		
1967			3.2000E-01	1.6056E-05	6.7000E-01	3.3617E-05
1968	3.2030E+01	1.6071E-03				
1969	1.7790E+01	8.9261E-04				
1970	1.1210E+01	5.6246E-04				
1971	1.0000E-02	5.0175E-07				
1972						
1973						
1974						
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	6.1040E+01		6.4650E+01		9.9000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ba, La-140

	<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>		<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			3.7200E+00	1.8665E-04		
1961			2.6200E+00	1.3146E-04		
1962			5.4490E+01	2.7340E-03		
1963			9.1400E+00	4.5860E-04		
1964	8.0000E-02	4.0140E-06	1.0000E-02	5.0175E-07		
1965						
1966						
1967			5.4000E-01	2.7094E-05	1.0000E-03	
1968			1.7500E+00	8.7806E-05	2.3000E-01	1.1540E-05
1969	1.0000E-03		1.0500E+00	5.2683E-05		
1970						
1971	3.0000E-04					
1972						
1973						
1974						
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	8.1300E-02		7.3320E+01		2.3100E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ba, La-140

R Area
Liquid to Stream

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960	2.5100E+00	1.2594E-04
1961	1.6900E+00	8.4795E-05
1962	2.0600E+00	1.0336E-04
1963	3.3120E+01	1.6618E-03
1964	1.5200E+00	7.6265E-05
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
TOTAL	4.0900E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141

	<u>F Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>		<u>H Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971	1.8300E-03	3.7228E-05	2.0000E-02	4.0687E-04	1.8980E-02	3.8612E-04
1972	4.0000E-04	8.1528E-06	4.0000E-02	8.1390E-04	1.3030E-02	2.6523E-04
1973	4.5000E-04	9.1579E-06		3.3684E-07	3.4000E-03	6.9277E-05
1974	9.3000E-04	1.8923E-05			5.0000E-05	1.0458E-06
1975	1.8500E-04	3.7714E-06	1.0000E-03	2.0343E-05	9.8000E-05	1.9941E-06
1976	1.6500E-04	3.3582E-06			3.2000E-05	6.5181E-07
1977	2.0800E-04	4.2328E-06			1.4200E-04	2.8890E-06
1978	8.4000E-05	1.7106E-06	1.7680E-04	3.5967E-06	4.5000E-05	9.1665E-07
1979	1.6200E-04	3.2963E-06	2.0000E-03	4.0688E-05	3.0000E-06	
1980	1.1100E-04	2.2595E-06				
1981	2.5600E-04	5.2088E-06			5.9000E-05	1.2003E-06
1982	3.8000E-04	7.7326E-06	4.0890E-03	8.3184E-05	4.0000E-05	8.1423E-07
1983	4.2500E-04	8.6491E-06			4.5000E-05	9.1579E-07
1984	8.3200E-04	1.6929E-05	3.0000E-03	6.1030E-05	6.0000E-06	1.2244E-07
1985	3.6490E-03	7.4240E-05			4.0000E-06	
1986	1.5000E-05	3.3588E-07			4.0000E-06	
1987	4.0000E-06		4.1140E-04	8.3693E-06	2.0000E-06	
1988	1.6000E-05	3.2549E-07				
TOTAL	1.0102E-02		7.0677E-02		3.5940E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141

H Area
Liquid to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	3.8000E-01	7.7305E-03
1972	8.8000E-01	1.7905E-02
1973	1.1500E+00	2.3402E-02
1974	1.1000E-01	2.2475E-03
1975	1.5000E-02	3.0608E-04
1976	2.4000E-02	4.9837E-04
1977	1.8000E-02	3.6638E-04
1978	2.6120E-02	5.3152E-04
1979	1.2000E-02	2.4434E-04
1980		1.0112E-07
1981		
1982	2.4940E-03	5.0736E-05
1983	5.9030E-03	1.2011E-04
1984		
1985		
1986		
1987	1.2500E-03	2.5429E-05
1988		
TOTAL	2.6248E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141, 144

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>D Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	3.4900E+00	2.2359E+00				
1961	5.9300E+00	4.7169E+00				
1962	3.9000E-01	2.1859E+00				
1963	2.5200E+00	2.5117E+00				
1964	2.4700E+00	2.6134E+00	2.5000E-01	1.6017E-01		
1965	1.1900E+00	1.8350E+00	2.0000E-02	7.8553E-02		
1966	7.8000E-01	1.2529E+00	4.0000E-03	3.4805E-02		
1967	2.6300E+00	2.1992E+00		1.4286E-02	1.7000E-01	1.0891E-01
1968	1.4190E+01	9.9937E+00	2.0000E-02	1.8677E-02		4.4703E-02
1969	1.6600E+00	5.1654E+00		7.6659E-03		1.8349E-02
1970	2.3300E+00	3.6129E+00	6.0000E-02	4.1586E-02	6.0000E-03	1.1375E-02
1971	2.4310E+00	3.0404E+00		1.7069E-02	2.8000E-02	2.2608E-02
1972	1.0000E-02	1.2543E+00		7.0060E-03	3.2000E-02	2.9781E-02
1973	4.2000E-02	5.4175E-01		2.8756E-03	3.0940E-02	3.2046E-02
1974	1.3000E-01	3.0565E-01		1.1803E-03		1.3153E-02
1975	3.0000E-03	1.2737E-01		4.8446E-04		5.3987E-03
1976	7.0000E-03	5.6766E-02		1.9884E-04		2.2159E-03
1977	1.2800E-04	2.3381E-02		8.1616E-05		9.0952E-04
1978	2.1450E-04	9.7344E-03	9.0450E-04	6.1298E-04		3.7331E-04
1979		3.9955E-03	1.0300E-04	3.1759E-04		1.5323E-04
1980		1.6399E-03	1.1770E-02	7.6710E-03		6.2892E-05
1981		6.7312E-04	2.5870E-03	4.8059E-03		2.5814E-05
1982		2.7628E-04	6.7800E-04	2.4070E-03		1.0595E-05
1983		1.1340E-04	1.1110E-02	8.1057E-03		4.3489E-06
1984		4.6545E-05	7.6730E-03	8.2428E-03		1.7850E-06
1985		1.9104E-05	1.2410E-02	1.1334E-02		7.3265E-07
1986		7.8414E-06	2.8560E-04	4.8350E-03		3.0072E-07
1987		3.2185E-06		1.9845E-03		1.2343E-07
1988		1.3210E-06		8.1455E-04		
TOTAL	4.0203E+01		4.0152E-01		2.6694E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141, 144

	F Area <u>Atmospheric</u>		F Area <u>Liquid to Seepage Basins</u>		H Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.5900E-01	1.0187E-01	7.7800E+01	4.9844E+01	8.4000E-02	5.3816E-02
1961	1.7400E-01	1.5329E-01	3.3000E+01	4.1600E+01	1.1000E-01	9.2562E-02
1962	5.5600E-02	9.8537E-02	9.4600E+00	2.3136E+01	1.5690E-01	1.3851E-01
1963	9.5900E-02	1.0188E-01	2.2520E+01	2.3924E+01	1.4340E-01	1.4872E-01
1964	1.8130E-01	1.5797E-01	1.9120E+01	2.2069E+01	1.3890E-01	1.5003E-01
1965	1.5250E-01	1.6254E-01	2.8480E+01	2.7304E+01	8.8300E-02	1.1815E-01
1966	6.6000E-02	1.0900E-01	2.4200E+00	1.2757E+01	1.0870E-01	1.1814E-01
1967	2.8900E-02	6.3254E-02	1.3300E+00	6.0884E+00	6.4200E-02	8.9619E-02
1968	3.2300E-02	4.6656E-02	2.0200E+00	3.7931E+00	5.1800E-01	3.6865E-01
1969	2.9400E-02	3.7985E-02	2.1900E+00	2.9599E+00	7.8170E-01	6.5212E-01
1970	4.1400E-02	4.2115E-02	3.4700E+00	3.4380E+00	1.8740E-01	3.8772E-01
1971		1.7286E-02		1.4111E+00		1.5914E-01
1972		7.0950E-03		5.7920E-01		6.5319E-02
1973		2.9122E-03		2.3773E-01		2.6810E-02
1974		1.1953E-03		9.7578E-02		1.1004E-02
1975		4.9061E-04		4.0051E-02		4.5167E-03
1976		2.0137E-04		1.6439E-02		1.8539E-03
1977		8.2653E-05		6.7473E-03		7.6093E-04
1978		3.3925E-05		2.7694E-03		3.1232E-04
1979		1.3924E-05		1.1367E-03		1.2819E-04
1980		5.7153E-06		4.6657E-04		5.2617E-05
1981		2.3459E-06		1.9150E-04		2.1597E-05
1982		9.6286E-07		7.8602E-05		8.8644E-06
1983		3.9520E-07		3.2262E-05		3.6384E-06
1984		1.6221E-07		1.3242E-05		1.4934E-06
1985				5.4352E-06		6.1296E-07
1986				2.2309E-06		2.5159E-07
1987				9.1567E-07		1.0326E-07
1988				3.7584E-07		
TOTAL	1.0163E+00		2.0181E+02		2.3815E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141, 144

	<u>H Area</u>		<u>K Area</u>		<u>K Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	5.4000E+00	3.4596E+00	2.2340E+01	1.4312E+01		
1961	6.6700E+00	5.6932E+00	7.6500E+00	1.0776E+01		
1962	2.6500E+00	4.0345E+00	4.4500E+00	7.2738E+00		
1963	8.0900E+00	6.8390E+00	1.8000E+00	4.1387E+00		
1964	7.7900E+00	7.7978E+00	2.6100E+00	3.3709E+00		
1965	1.2390E+01	1.1138E+01	1.0150E+01	7.8863E+00	1.6000E-01	1.0251E-01
1966	1.8000E-01	4.6871E+00	4.0000E-01	3.4932E+00		4.2074E-02
1967	1.0600E+00	2.6029E+00	3.2600E+00	3.5224E+00		1.7269E-02
1968	1.1800E+00	1.8244E+00	1.3340E+01	9.9922E+00		7.0881E-03
1969	2.6500E+00	2.4466E+00	2.0000E-02	4.1141E+00		2.9093E-03
1970	3.1500E+00	3.0223E+00		1.6886E+00		1.1941E-03
1971		1.2405E+00	9.2000E-04	6.9369E-01		4.9013E-04
1972		5.0916E-01		2.8473E-01		2.0118E-04
1973		2.0899E-01	9.0000E-03	1.2263E-01		8.2573E-05
1974		8.5778E-02		5.0334E-02		3.3892E-05
1975		3.5208E-02	2.3000E-02	3.5395E-02		1.3911E-05
1976		1.4451E-02		1.4528E-02		5.7098E-06
1977		5.9314E-03	1.4320E-01	9.7706E-02		2.3436E-06
1978		2.4346E-03		4.0103E-02		9.6192E-07
1979		9.9927E-04		1.6460E-02		3.9482E-07
1980		4.1015E-04		6.7562E-03		1.6205E-07
1981		1.6835E-04		2.7731E-03		
1982		6.9098E-05		1.1382E-03		
1983		2.8361E-05		4.6718E-04		
1984		1.1641E-05		1.9175E-04		
1985		4.7780E-06		7.8706E-05		
1986		1.9611E-06		3.2305E-05		
1987		8.0495E-07		1.3260E-05		
1988		3.3039E-07		5.4424E-06		
TOTAL	5.1210E+01		6.6196E+01		1.6000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141, 144

	<u>K Area</u>		<u>L Area</u>		<u>L Area</u>	
	<u>Purges to Containment Basin</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			9.0300E+00	5.7852E+00		
1961			1.8990E+01	1.4541E+01		
1962			3.2500E+00	8.0504E+00		
1963			6.4600E+00	7.4430E+00		
1964			7.1820E+01	4.9067E+01	2.0400E+00	1.3070E+00
1965			1.9050E+01	3.2344E+01		5.3644E-01
1966			1.8250E+01	2.4968E+01		2.2018E-01
1967			1.0230E+01	1.6802E+01	8.8000E-01	6.5416E-01
1968	3.2960E+01	2.1116E+01	3.5800E+00	9.1900E+00	3.1000E-01	4.6711E-01
1969	7.8000E+00	1.3664E+01	2.7000E-01	3.9450E+00	4.0000E-03	1.9429E-01
1970	4.2600E+00	8.3378E+00		1.6192E+00		7.9745E-02
1971	8.0000E-02	3.4735E+00		6.6461E-01		3.2731E-02
1972	2.1000E-01	1.5602E+00		2.7279E-01		1.3435E-02
1973	1.8300E-01	7.5764E-01		1.1197E-01		5.5142E-03
1974	2.4400E-01	4.6730E-01		4.5957E-02		2.2633E-03
1975	4.0000E-03	1.9436E-01		1.8863E-02		9.2898E-04
1976	6.9000E-02	1.2398E-01		7.7424E-03		3.8130E-04
1977	5.7840E-02	8.7945E-02		3.1779E-03		1.5650E-04
1978	4.5540E-02	6.5273E-02		1.3044E-03		6.4237E-05
1979	2.8280E-02	4.4909E-02		5.3537E-04		2.6366E-05
1980	1.4770E-02	2.7896E-02		2.1974E-04		1.0822E-05
1981	5.4000E-03	1.4909E-02		9.0194E-05		4.4419E-06
1982	8.1500E-04	6.6417E-03		3.7020E-05		1.8232E-06
1983	2.1570E-03	4.1080E-03		1.5195E-05		7.4833E-07
1984	8.6900E-04	2.2429E-03		6.2368E-06		3.0715E-07
1985	2.4560E-02	1.6655E-02		2.5599E-06	2.7000E-05	1.7424E-05
1986	6.5330E-03	1.1022E-02		1.0507E-06		7.1517E-06
1987	1.1900E-03	5.2862E-03		4.3126E-07		2.9354E-06
1988		2.1697E-03		1.7701E-07		1.2048E-06
TOTAL	4.5998E+01				3.2340E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141, 144

	<u>L Area</u>		<u>P Area</u>		<u>P Area</u>	
	<u>Purges to Oil & Chemical Basin</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			2.5100E+00	1.6081E+00		
1961			1.2200E+00	1.4416E+00		
1962			1.1850E+01	8.1836E+00		
1963			5.9900E+00	7.1965E+00		
1964	1.1400E+00	7.3036E-01	2.0600E+00	4.2736E+00	2.0000E-02	1.2813E-02
1965	2.0500E+00	1.6131E+00	8.8800E-01	2.3230E+00		5.2592E-03
1966	2.8000E-01	8.4150E-01	1.7000E-01	1.0624E+00		2.1586E-03
1967	2.0000E-02	3.5821E-01	5.9000E-01	8.1405E-01		8.8602E-04
1968	1.4000E-01	2.3672E-01	3.5300E+00	2.5957E+00	1.2000E-01	7.7243E-02
1969	7.0000E-03	1.0165E-01	3.5000E+00	3.3077E+00		3.1705E-02
1970	2.0000E-03	4.3002E-02	3.8000E-01	1.6011E+00		1.3013E-02
1971	4.0000E-03	2.0213E-02	8.5000E-04	6.5772E-01		5.3413E-03
1972	9.0000E-02	6.5956E-02		2.6996E-01		2.1923E-03
1973		2.7072E-02	6.5000E-02	1.5245E-01		8.9984E-04
1974		1.1112E-02	2.3000E-02	7.7308E-02		3.6934E-04
1975	1.0000E-03	5.2014E-03	1.3000E-02	4.0060E-02		1.5160E-04
1976		2.1349E-03	2.0000E-03	1.7724E-02		6.2222E-05
1977	2.3200E-04	1.0249E-03	5.8700E-04	7.6508E-03		2.5539E-05
1978		4.2068E-04	7.4710E-04	3.6189E-03	6.9890E-04	4.5824E-04
1979		1.7267E-04		1.4854E-03	6.6600E-04	6.1477E-04
1980		7.0871E-05		6.0968E-04	1.0540E-02	7.0049E-03
1981		2.9089E-05		2.5024E-04	2.6800E-04	3.0469E-03
1982		1.1940E-05		1.0271E-04	6.6990E-03	5.5424E-03
1983		4.9006E-06		4.2158E-05	8.9570E-03	8.0133E-03
1984		2.0115E-06		1.7304E-05	5.6220E-03	6.8909E-03
1985		8.2561E-07		7.1024E-06	5.6590E-02	3.9084E-02
1986		3.3887E-07		2.9152E-06	8.9850E-03	2.1798E-02
1987		1.3909E-07		1.1965E-06	8.6380E-04	9.5005E-03
1988				4.9112E-07	2.1600E-05	3.9133E-03
TOTAL	3.7342E+00		3.2793E+01		2.3991E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-141, 144

	R Area <u>Liquid to Stream</u>		R Area <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960	3.3600E+00	2.1526E+00		
1961	2.0300E+00	2.1841E+00		
1962	2.6800E+00	2.6134E+00		
1963	3.3540E+01	2.2561E+01		
1964	8.4300E+00	1.4661E+01	1.0000E-02	6.4066E-03
1965		6.0175E+00		2.6296E-03
1966		2.4699E+00		1.0793E-03
1967		1.0138E+00		4.4301E-04
1968		4.1610E-01		1.8183E-04
1969		1.7079E-01		7.4633E-05
1970		7.0100E-02		3.0633E-05
1971		2.8773E-02		1.2573E-05
1972		1.1810E-02		5.1608E-06
1973		4.8473E-03		2.1182E-06
1974		1.9896E-03		8.6943E-07
1975		8.1663E-04		3.5686E-07
1976		3.3519E-04		1.4647E-07
1977		1.3758E-04		
1978		5.6468E-05		
1979		2.3178E-05		
1980		9.5132E-06		
1981		3.9047E-06		
1982		1.6027E-06		
1983		6.5782E-07		
1984		2.7000E-07		
1985		1.1082E-07		
1986				
1987				
1988				
TOTAL	5.0040E+01		1.0000E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-144

	F Area Atmospheric		F Area Liquid to Seepage Basins		H Area Atmospheric	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971	1.7310E-02	1.1090E-02	1.5600E+00	9.9944E-01	1.1530E-01	7.3869E-02
1972	4.1500E-03	7.2106E-03	3.5000E-01	6.3445E-01	3.2500E-01	2.3854E-01
1973	8.9000E-03	8.6615E-03	3.1000E-01	4.5902E-01	3.0060E-02	1.1717E-01
1974	1.7570E-02	1.4812E-02	1.9000E-01	3.1013E-01	4.3000E-03	5.0845E-02
1975	8.4320E-03	1.1481E-02	1.8900E-01	2.4838E-01	7.6980E-03	2.5801E-02
1976	6.5560E-03	8.9128E-03	9.0000E-03	1.0771E-01	4.7850E-03	1.3656E-02
1977	4.7580E-03	6.7065E-03	3.7000E-02	6.7915E-02	1.0070E-02	1.2056E-02
1978	1.0290E-02	9.3451E-03	4.8030E-02	5.8647E-02	3.8760E-03	7.4318E-03
1979	1.5370E-02	1.3683E-02	2.2900E-01	1.7078E-01	2.3650E-03	4.5656E-03
1980	1.1480E-02	1.2971E-02	1.5000E-02	7.9708E-02	4.0570E-03	4.4731E-03
1981	1.2620E-02	1.3409E-02	6.6740E-01	4.6030E-01	1.3810E-02	1.0684E-02
1982	4.7040E-03	8.5174E-03	6.8330E-02	2.3270E-01	3.1450E-03	6.4000E-03
1983	6.2660E-03	7.5104E-03	1.2500E-02	1.0352E-01	2.6140E-03	4.3016E-03
1984	1.1310E-02	1.0329E-02	6.4000E-02	8.3493E-02	1.9390E-03	3.0078E-03
1985	4.7660E-02	3.4773E-02	1.7100E-01	1.4382E-01	3.3900E-03	3.4064E-03
1986	2.3910E-03	1.5805E-02	3.4610E-01	2.8077E-01	8.6170E-03	6.9188E-03
1987	2.8270E-03	8.2982E-03	1.2950E-01	1.9821E-01	2.8630E-02	2.1182E-02
1988	2.8340E-03	5.2216E-03	5.6090E-02	1.1729E-01	1.7280E-03	9.8012E-03
TOTAL	1.9543E-01		4.4519E+00		5.7138E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Ce-144

H Area
Liquid to Stream

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971	1.5400E+00	9.8662E-01
1972	1.3900E+00	1.2955E+00
1973	3.3900E+00	2.7036E+00
1974	1.9100E+00	2.3334E+00
1975	1.2560E+00	1.7624E+00
1976	4.6700E-01	1.0226E+00
1977	2.6900E-01	5.9205E-01
1978	2.1120E+00	1.5961E+00
1979	2.4520E+01	1.6364E+01
1980	3.6700E-01	6.9518E+00
1981	2.1900E+00	4.2564E+00
1982	5.8780E-01	2.1236E+00
1983	3.4200E-01	1.0908E+00
1984	1.3000E-02	4.5603E-01
1985	1.7000E-02	1.9807E-01
1986	5.4120E-02	1.1597E-01
1987	3.1460E-02	6.7755E-02
1988	2.4950E-02	4.3795E-02
TOTAL	4.0481E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pm-147

	C Area <u>Liquid to Stream</u>		C Area <u>Purges to Seepage Basins</u>		D Area <u>Liquid to Stream</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	2.6000E-02	2.2783E-02				
1956	2.4000E-02	3.8523E-02				
1957	4.4000E-02	6.8134E-02				
1958	8.2000E-02	1.2417E-01				
1959	9.2400E-01	9.0500E-01	2.9400E-01	2.5762E-01		
1960	5.2000E-01	1.1505E+00	1.2700E-01	3.0909E-01		
1961	1.1000E+00	1.8473E+00	4.0000E-02	2.7237E-01		
1962	1.5500E+00	2.7766E+00	7.8000E-03	2.1597E-01		
1963	6.2000E-01	2.6752E+00	9.8000E-02	2.5170E-01		
1964	1.8000E-01	2.2118E+00	2.0000E-01	3.6851E-01		
1965	2.5400E+00	3.9239E+00		2.8295E-01		
1966	1.4900E+00	4.3185E+00		2.1725E-01		
1967	3.3900E+00	6.2863E+00		1.6681E-01		
1968	5.4600E+00	9.6111E+00		1.2808E-01		
1969	4.1100E+00	1.0981E+01		9.8343E-02		
1970	1.2800E+00	9.5530E+00		7.5510E-02		
1971	7.5000E-01	7.9922E+00		5.7978E-02		
1972		6.1366E+00		4.4517E-02		
1973	5.2000E-02	4.7573E+00		3.4181E-02	7.2000E-04	6.3090E-04
1974	2.8000E-02	3.6773E+00		2.6245E-02		4.8442E-04
1975	1.6000E-02	2.8375E+00		2.0151E-02		3.7195E-04
1976	3.3000E-02	2.2076E+00		1.5473E-02		2.8559E-04
1977	2.3770E-03	1.6971E+00		1.1880E-02		2.1928E-04
1978	8.3830E-04	1.3038E+00	2.7470E-04	9.3625E-03		1.6837E-04
1979		1.0011E+00	1.2060E-03	8.2455E-03		1.2928E-04
1980		7.6868E-01	4.4500E-04	6.7210E-03		9.9261E-05
1981		5.9020E-01	1.4600E-03	6.4398E-03		7.6214E-05
1982		4.5317E-01	3.5940E-03	8.0939E-03		5.8519E-05
1983		3.4795E-01		6.2146E-03		4.4932E-05
1984		2.6717E-01	1.1070E-03	5.7417E-03		3.4500E-05
1985		2.0514E-01	6.4400E-04	4.9729E-03		2.6490E-05
1986		1.5751E-01	3.1490E-05	3.8459E-03		2.0339E-05
1987		1.2094E-01		2.9530E-03		1.5617E-05
1988		9.2858E-02		2.2673E-03		1.1991E-05
TOTAL	2.4222E+01		7.7556E-01		7.2000E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pm-147

	<u>F Area</u> <u>Liquid to Stream</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>		<u>H Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955			7.0000E-01	6.1338E-01	6.8000E-01	5.9585E-01
1956			2.2000E+00	2.3987E+00	1.3600E+00	1.6492E+00
1957			1.2500E+00	2.9371E+00	1.2000E+00	2.3178E+00
1958			1.6300E+00	3.6835E+00	1.5440E+00	3.1326E+00
1959			6.8240E+00	8.8078E+00	6.7560E+00	8.3252E+00
1960			1.9740E+01	2.4060E+01	1.2920E+00	7.5244E+00
1961			5.1320E+00	2.2971E+01	1.2770E+00	6.8964E+00
1962			1.1410E+01	2.7635E+01	2.6930E+00	7.6549E+00
1963			9.8760E+00	2.9873E+01	3.9880E+00	9.3721E+00
1964			2.8680E+01	4.8068E+01	2.3030E+00	9.2141E+00
1965			1.0560E+01	4.6161E+01	2.5700E+00	9.3267E+00
1966			3.3500E+00	3.8379E+01	1.5500E+00	8.5194E+00
1967			1.4200E+00	3.0712E+01	9.7000E-01	7.3914E+00
1968			2.5400E+00	2.5807E+01	4.5400E+00	9.6534E+00
1969			2.7500E+00	2.2225E+01	3.8100E+00	1.0751E+01
1970			2.4600E+00	1.9220E+01	1.1300E+00	9.2447E+00
1971			1.1500E+00	1.5765E+01	1.0300E+00	8.0008E+00
1972			5.0000E-01	1.2543E+01	1.3000E+00	7.2823E+00
1973			5.9000E-01	1.0148E+01	1.4300E+00	6.8445E+00
1974			3.6000E-01	8.1072E+00	7.6000E-01	5.9213E+00
1975			1.8600E-01	6.3878E+00	1.1380E+00	5.5437E+00
1976			2.7100E-01	5.1422E+00	5.0700E-01	4.7008E+00
1977			1.3100E-01	4.0630E+00	1.5300E-01	3.7434E+00
1978			7.3000E-02	3.1837E+00	4.7300E-01	3.2888E+00
1979			6.6000E-02	2.5023E+00	2.2100E-01	2.7188E+00
1980			8.7000E-02	1.9976E+00	3.4000E-02	2.1174E+00
1981			3.1600E-01	1.8107E+00	2.4300E-01	1.8387E+00
1982			1.1900E-01	1.4945E+00	3.4800E-01	1.7123E+00
1983			9.0000E-03	1.1554E+00	5.5000E-02	1.3630E+00
1984			1.6000E-01	1.0326E+00	1.8500E-01	1.2086E+00
1985			1.4700E-01	9.2167E-01	2.6900E-01	1.1637E+00
1986			7.4500E-01	1.3605E+00	6.3900E-01	1.4534E+00
1987			1.7400E-01	1.1971E+00	3.2300E-01	1.3990E+00
1988	1.9520E-02	1.7104E-02	6.3000E-02	9.7434E-01	4.8000E-02	1.1119E+00
TOTAL	1.9520E-02		1.1567E+02		4.6809E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curles)

Pm-147

	<u>ETF</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955			2.2000E-02	1.9278E-02		
1956			4.8000E-02	5.6862E-02		
1957			1.3000E-01	1.5757E-01		
1958			6.2000E-02	1.7532E-01		
1959			3.8400E-01	4.7109E-01	4.0000E-02	3.5050E-02
1960			2.7200E+00	2.7451E+00	6.2000E-03	3.2345E-02
1961			1.0500E+00	3.0278E+00		2.4835E-02
1962			1.7900E+00	3.8933E+00		1.9069E-02
1963			6.7000E-01	3.5765E+00		1.4641E-02
1964			1.4000E-01	2.8687E+00		1.1242E-02
1965			3.0100E+00	4.8402E+00		8.6318E-03
1966			1.2300E+00	4.7942E+00		6.6277E-03
1967			5.1400E+00	8.1850E+00		5.0889E-03
1968			2.7000E+00	8.6505E+00		3.9073E-03
1969			2.1600E+00	8.5347E+00		3.0001E-03
1970			6.8000E-01	7.1490E+00		2.3036E-03
1971			3.0000E-02	5.5154E+00		1.7687E-03
1972			2.0000E-02	4.2524E+00		1.3581E-03
1973			4.0000E-03	3.2686E+00		1.0427E-03
1974				2.5097E+00		8.0064E-04
1975			1.4000E-02	1.9392E+00		6.1475E-04
1976			3.6000E-02	1.5205E+00		4.7202E-04
1977			2.2000E-02	1.1868E+00		3.6242E-04
1978				9.1123E-01		2.7828E-04
1979				6.9966E-01		2.1367E-04
1980				5.3721E-01		1.6406E-04
1981				4.1248E-01		1.2597E-04
1982				3.1671E-01		9.6719E-05
1983				2.4318E-01		7.4263E-05
1984				1.8672E-01		5.7020E-05
1985				1.4336E-01		4.3781E-05
1986				1.1008E-01		3.3616E-05
1987				8.4520E-02		2.5811E-05
1988	2.0500E-04	1.7963E-04		6.4896E-02		1.9818E-05
TOTAL	2.0500E-04		2.2062E+01		4.6200E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pm-147

	<u>K Area</u>		<u>L Area</u>		<u>L Area</u>	
	<u>Purges to Containment Basin</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955			5.6000E-02	4.9070E-02		
1956			1.0000E-01	1.2530E-01		
1957			2.3800E-01	3.0476E-01		
1958			2.1200E-01	4.1976E-01	6.2000E-02	5.4328E-02
1959			5.3200E-01	7.8847E-01	8.0000E-03	4.8724E-02
1960			2.5700E+00	2.8574E+00	1.1000E-02	4.7050E-02
1961			1.5100E+00	3.5171E+00	4.0000E-05	3.6161E-02
1962			1.3000E+00	3.8396E+00	6.0000E-05	2.7818E-02
1963			2.7000E-01	3.1847E+00	2.8600E-01	2.7197E-01
1964			1.1900E+00	3.4880E+00	1.0000E-02	2.1758E-01
1965			4.6300E+00	6.7352E+00		1.6707E-01
1966			4.6500E+00	9.2460E+00		1.2828E-01
1967			5.5700E+00	1.1980E+01		9.8493E-02
1968			1.6300E+00	1.0627E+01		7.5625E-02
1969			1.4000E-01	8.2821E+00		5.8066E-02
1970			3.1000E-01	6.6308E+00		4.4585E-02
1971				5.0913E+00		3.4233E-02
1972	1.0000E-01	8.7625E-02		3.9092E+00		2.6285E-02
1973	2.9000E-02	9.2692E-02		3.0016E+00		2.0182E-02
1974	3.0000E-02	9.7458E-01		2.3047E+00		1.5496E-02
1975	3.1000E-02	1.0199E-01		1.7696E+00		1.1898E-02
1976	6.5000E-02	1.3527E-01		1.3587E+00		9.1357E-03
1977	1.0800E-02	1.1333E-01		1.0432E+00		7.0146E-03
1978	7.4220E-03	9.3518E-02		8.0102E-01		5.3859E-03
1979	1.5010E-03	7.3120E-02		6.1504E-01		4.1354E-03
1980	1.3020E-03	5.7284E-02		4.7224E-01		3.1752E-03
1981	9.5300E-04	4.4819E-02		3.6259E-01		2.4380E-03
1982	2.7240E-03	3.6800E-02		2.7841E-01		1.8720E-03
1983	2.2990E-03	3.0270E-02		2.1377E-01		1.4373E-03
1984	1.0400E-03	2.4153E-02		1.6413E-01		1.1036E-03
1985	7.6060E-03	2.5210E-02		1.2603E-01		8.4737E-04
1986	9.6000E-04	2.0198E-02		9.6765E-02	2.8140E-03	3.1164E-03
1987	1.1270E-03	1.6496E-02		7.4298E-02	1.7290E-03	3.9079E-03
1988	1.3350E-04	1.2783E-02		5.7047E-02	9.4530E-05	3.0834E-03
TOTAL	2.9287E-01		2.4908E01		3.8174E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pm-147

	L Area <u>Purges to Oil & Chemical Basin</u>		P Area <u>Liquid to Stream</u>		P Area <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956			5.6000E-02	4.9070E-02		
1957			1.3000E-01	1.5159E-01		
1958			3.7600E-01	4.4586E-01	6.4000E-02	5.6080E-02
1959			1.7800E-01	4.9832E-01	2.0000E-03	4.4812E-02
1960			2.4000E-01	5.9292E-01	1.1400E-01	1.3430E-01
1961	5.2600E-02	4.6091E-02	1.0100E+00	1.3403E+00	1.2200E-01	2.1002E-01
1962	4.2200E-02	7.2367E-02	8.2000E-01	1.7476E+00	6.6200E-02	2.1927E-01
1963	3.0800E-01	3.2545E-01	6.0300E+00	6.6257E+00	2.9800E-02	1.9447E-01
1964	1.5800E+00	1.6344E+00	1.1300E+00	6.0775E+00	6.0000E-02	2.0189E-01
1965		1.2549E+00	7.5000E-01	5.3236E+00	8.8000E-01	9.2612E-01
1966		9.6354E-01	1.9000E+00	5.7524E+00		7.1109E-01
1967		7.3982E-01	1.0900E+00	5.3720E+00		5.4599E-01
1968		5.6805E-01	1.8300E+00	5.7282E+00		4.1922E-01
1969		4.3616E-01	1.6900E+00	5.8791E+00		3.2189E-01
1970		3.3489E-01	8.1500E+00	1.1656E+01		2.4715E-01
1971		2.5714E-01	2.2300E+00	1.0903E+01		1.8977E-01
1972		1.9744E-01	4.2000E-01	8.7399E+00		1.4571E-01
1973		1.5159E-01	5.0000E-02	6.7545E+00		1.1188E-01
1974		1.1640E-01	1.2000E-02	5.1967E+00		8.5902E-02
1975		8.9372E-02	2.5000E-02	4.0121E+00		6.5957E-02
1976		6.8622E-02	4.0000E-03	3.0840E+00		5.0643E-02
1977	3.2000E-05	5.2717E-02	2.5000E-02	2.3899E+00		3.8885E-02
1978		4.0477E-02	4.6390E-03	1.8391E+00		2.9857E-02
1979		3.1079E-02	2.3350E-03	1.4141E+00	1.2510E-03	2.4021E-02
1980		2.3863E-02		1.0858E+00	1.0760E-03	1.9386E-02
1981		1.8323E-02		8.3369E-01		1.4885E-02
1982		1.4069E-02		6.4013E-01	2.2840E-03	1.3431E-02
1983		1.0802E-02		4.9150E-01	7.2750E-03	1.6687E-02
1984		8.2941E-03		3.7739E-01	2.3100E-04	1.3015E-02
1985		6.3684E-03		2.8976E-01	1.2210E-03	1.1063E-02
1986		4.8897E-03		2.2249E-01	9.6050E-03	1.6911E-02
1987		3.7544E-03		1.7083E-01	1.3180E-03	1.4139E-02
1988		2.8827E-03		1.3117E-01	2.6060E-03	1.3140E-02
				1.0071E-01	2.4750E-06	1.0091E-02
TOTAL	1.9828E+00		2.8153E+01		1.3649E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pm-147

	<u>R Area</u> <u>Liquid to Stream</u>		<u>R Area</u> <u>Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954	6.0000E-02	5.2575E-02		
1955	6.4000E-02	9.6448E-02		
1956	3.0400E-01	3.4044E-01		
1957	8.5160E-01	1.0076E+00	2.3000E+00	2.0154E+00
1958	5.4000E-01	1.2468E+00	8.4400E-01	2.2870E+00
1959	5.6600E-01	1.4533E+00	1.8000E-02	1.7718E+00
1960	9.7000E-01	1.9658E+00		1.3604E+00
1961	1.8500E+00	3.1305E+00		1.0445E+00
1962	2.0200E+00	4.1737E+00	1.6000E-03	8.0349E-01
1963	2.3800E+00	5.2901E+00	2.0000E-03	6.1864E-01
1964	8.5000E-01	4.8067E+00	2.7200E-02	4.9884E-01
1965		3.6907E+00		3.8302E-01
1966		2.8338E+00		2.9409E-01
1967		2.1758E+00		2.2581E-01
1968		1.6706E+00		1.7338E-01
1969		1.2827E+00		1.3312E-01
1970		9.8492E-01		1.0222E-01
1971		7.5624E-01		7.8483E-02
1972		5.8066E-01		6.0261E-02
1973		4.4584E-01		4.6269E-02
1974		3.4232E-01		3.5527E-02
1975		2.6284E-01		2.7278E-02
1976		2.0182E-01		2.0945E-02
1977		1.5496E-01		1.6082E-02
1978		1.1898E-01		1.2348E-02
1979		9.1356E-02		9.4809E-03
1980		7.0145E-02		7.2796E-03
1981		5.3858E-02		5.5895E-03
1982		4.1354E-02		4.2917E-03
1983		3.1752E-02		3.2952E-03
1984		2.4380E-02		2.5302E-03
1985		1.8719E-02		1.9427E-03
1986		1.4373E-02		1.4916E-03
1987		1.1036E-02		1.1453E-03
1988		8.4736E-03		8.7940E-04
TOTAL	1.0456E+01		3.1928E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

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Combined F & H Area
Atmospheric

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983	5.5000E-04	1.4223E-04
1984	4.0000E-04	1.1295E-04
1985	5.8000E-04	1.5754E-04
1986	1.4000E-04	4.6738E-05
1987	7.0000E-05	2.1227E-05
1988	3.0000E-05	9.1772E-06
TOTAL	1.7700E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Th-232

CMX-TNX
Liquid to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968	1.6670E-01	1.6670E-01
1969		1.6670E-01
1970		1.6670E-01
1971		1.6670E-01
1972		1.6670E-01
1973		1.6670E-01
1974		1.6670E-01
1975		1.6670E-01
1976		1.6670E-01
1977		1.6670E-01
1978		1.6670E-01
1979		1.6670E-01
1980		1.6670E-01
1981		1.6670E-01
1982		1.6670E-01
1983		1.6670E-01
1984		1.6670E-01
1985		1.6670E-01
1986		1.6670E-01
1987		1.6670E-01
1988		1.6670E-01
TOTAL	1.6670E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

U-Nat

	<u>A Area</u>		<u>F Area</u>		<u>F Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Atmospheric</u>		<u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955			1.1700E-01	1.1700E-01	1.3740E-01	1.3740E-01
1956			1.1200E-01	2.2900E-01	5.3940E-01	6.7680E-01
1957			2.0000E-03	2.3100E-01	4.9380E-01	1.1706E+00
1958			1.0000E-03	2.3200E-01	4.3600E-01	1.6066E+00
1959			7.0000E-03	2.3900E-01	5.9200E-01	2.1986E+00
1960			1.9680E-02	2.5868E-01	8.1120E-01	3.0098E+00
1961			9.0000E-03	2.6768E-01	2.5140E-01	3.2612E+00
1962			7.8400E-03	2.7552E-01	5.7420E-01	3.8354E+00
1963			2.5740E-02	3.0126E-01	6.5830E-01	4.4937E+00
1964			4.2180E-02	3.4344E-01	1.7160E+00	6.2097E+00
1965			5.1100E-02	3.9454E-01	5.8820E-01	6.7979E+00
1966			1.9450E-02	4.1399E-01	4.9020E-01	7.2881E+00
1967			1.8280E-02	4.3227E-01	1.7630E-01	7.4644E+00
1968			9.5120E-03	4.4178E-01	2.5100E-01	7.7154E+00
1969			3.6200E-02	4.7798E-01	9.7290E-01	8.6883E+00
1970			1.3790E-02	4.9177E-01	1.3800E+00	1.0068E+01
1971			2.7200E-03	4.9449E-01	2.2000E-01	1.0288E+01
1972			5.1900E-03	4.9968E-01	2.3000E-01	1.0518E+01
1973	5.6000E-03	5.6000E-03	3.5800E-03	5.0326E-01	1.5780E-01	1.0676E+01
1974	5.4000E-04	6.1400E-03	8.6100E-03	5.1187E-01	9.7800E-02	1.0774E+01
1975	1.0780E-03	7.2180E-03	4.6940E-03	5.1657E-01	1.1510E-01	1.0889E+01
1976	2.1100E-03	9.3280E-03	4.8700E-03	5.2144E-01	2.3900E-01	1.1128E+01
1977	1.6900E-03	1.1018E-02	1.2310E-03	5.2267E-01	9.9000E-02	1.1227E+01
1978	1.5700E-03	1.2588E-02	2.5380E-03	5.2520E-01	1.1400E-01	1.1341E+01
1979	1.3070E-03	1.3895E-02	2.0500E-03	5.2725E-01	1.0700E-01	1.1448E+01
1980	1.7440E-03	1.5639E-02	3.4180E-03	5.3067E-01	1.8200E-01	1.1630E+01
1981	3.2630E-03	1.8902E-02	4.3030E-03	5.3498E-01	6.1330E-01	1.2243E+01
1982	3.0800E-03	2.1982E-02	8.4870E-03	5.4346E-01	1.4670E-01	1.2390E+01
1983		2.1982E-02	4.2430E-03	5.4771E-01	6.8210E-02	1.2458E+01
1984		2.1982E-02	1.7940E-03	5.4950E-01	4.2000E-02	1.2500E+01
1985		2.1982E-02	2.1260E-03	5.5163E-01	1.1500E-01	1.2615E+01
1986		2.1982E-02	1.2440E-03	5.5287E-01	1.1530E+00	1.3768E+01
1987		2.1982E-02	8.3820E-03	5.6125E-01	3.7540E-02	1.3806E+01
1988		2.1982E-02	1.3560E-03	5.6261E-01	2.1920E-02	1.3828E+01
TOTAL	2.1982E-02		5.6261E-01		1.3828E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

U-Nat

	H Area <u>Atmospheric</u>		H Area <u>Liquid to Seepage Basins</u>		M Area <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	1.8900E-01	1.8900E-01	2.8500E-02	2.8500E-02		
1956	7.0000E-03	1.9600E-01	1.8050E-01	2.0900E-01		
1957	2.5000E-04	1.9625E-01	2.8380E-01	4.9280E-01		
1958	6.0000E-04	1.9685E-01	7.6000E-02	5.6880E-01		
1959	1.5000E-04	1.9700E-01	1.0400E-01	6.7280E-01		
1960	3.0000E-04	1.9730E-01	2.4300E-02	6.9710E-01		
1961	1.2000E-03	1.9850E-01	1.1450E-01	8.1160E-01		
1962	1.0200E-03	1.9952E-01	8.4000E-02	8.9560E-01		
1963	5.7600E-03	2.0528E-01	4.7020E-02	9.4262E-01		
1964	1.3360E-02	2.1864E-01	1.0940E-01	1.0520E+00		
1965	7.0000E-04	2.1934E-01	7.2300E-02	1.1243E+00		
1966	1.1450E-03	2.2048E-01	2.2400E-02	1.1467E+00		
1967	8.7500E-04	2.2136E-01	1.4430E-02	1.1611E+00		
1968	1.7170E-02	2.3853E-01	7.7990E-02	1.2391E+00		
1969	3.2470E-02	2.7100E-01	2.7070E-02	1.2662E+00		
1970	2.8500E-03	2.7385E-01	3.0000E-02	1.2962E+00		
1971	2.4500E-03	2.7630E-01	2.0000E-02	1.3162E+00		
1972	2.5400E-03	2.7884E-01		1.3162E+00		
1973	1.5300E-03	2.8037E-01	1.5900E-02	1.3321E+00		
1974	6.0000E-05	2.8043E-01	5.3000E-03	1.3374E+00	2.2200E-03	2.2200E-03
1975	3.0000E-05	2.8046E-01	7.0000E-04	1.3381E+00	1.8860E-02	2.1080E-02
1976	1.0000E-04	2.8056E-01	1.2000E-02	1.3501E+00	8.8500E-03	2.9930E-02
1977	3.2000E-04	2.8088E-01	3.0000E-03	1.3531E+00	1.4330E-02	4.4260E-02
1978	5.2100E-04	2.8140E-01	8.0000E-03	1.3611E+00	5.8330E-02	1.0259E-01
1979	3.8600E-04	2.8179E-01	8.0000E-03	1.3691E+00	6.0450E-02	1.6304E-01
1980	5.9600E-04	2.8238E-01	9.0000E-03	1.3781E+00	9.6980E-02	2.6002E-01
1981	1.7680E-03	2.8415E-01	1.0540E-02	1.3886E+00	9.9810E-02	3.5983E-01
1982	6.5700E-04	2.8481E-01	6.1170E-03	1.3948E+00	2.0520E-01	5.6503E-01
1983	2.1800E-04	2.8503E-01	3.7600E-03	1.3985E+00	4.0900E-01	9.7403E-01
1984	3.9500E-04	2.8542E-01	3.0000E-03	1.4015E+00	1.2670E-01	1.1007E+00
1985	3.9900E-04	2.8582E-01	3.0000E-03	1.4045E+00	5.0530E-02	1.1513E+00
1986	2.2700E-04	2.8605E-01	2.0900E-03	1.4066E+00		1.1513E+00
1987	1.1600E-04	2.8616E-01	1.4350E-02	1.4210E+00		1.1513E+00
1988	1.0900E-04	2.8627E-01	1.5650E-04	1.4211E+00		1.1513E+00
TOTAL	2.8627E-01		1.4211E+00		1.1513E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

U-Nat

	M Area <u>Atmospheric</u>		M Area <u>Liquid to Stream</u>		CMX-TNX <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955			7.0000E-02	7.0000E-02		
1956			5.2000E-01	5.9000E-01		
1957			1.0500E-01	6.9500E-01		
1958			3.6000E-02	7.3100E-01		
1959			3.9000E-02	7.7000E-01		
1960			1.1000E-01	8.8000E-01		
1961			1.1000E-01	9.9000E-01		
1962			5.3000E-01	1.5200E+00		
1963			1.9530E+00	3.4730E+00		
1964			4.9600E-01	3.9690E+00		
1965			9.0000E-01	4.8690E+00		
1966			4.4390E+00	9.3080E+00		
1967			6.4230E+00	1.5731E+01		
1968			4.2140E+00	1.9945E+01	2.3140E-01	2.3140E-01
1969			1.2620E+00	2.1207E+01	1.0740E-01	3.3880E-01
1970			6.8200E-01	2.1889E+01		3.3880E-01
1971			3.4800E-01	2.2237E+01		3.3880E-01
1972			3.9000E-01	2.2627E+01		3.3880E-01
1973			2.1900E-01	2.2846E+01		3.3880E-01
1974			3.4900E-01	2.3195E+01		3.3880E-01
1975	3.3590E-06	3.3590E-06	4.4100E-01	2.3636E+01		3.3880E-01
1976	2.4490E-06	5.8080E-06	3.6300E-01	2.3999E+01		3.3880E-01
1977	1.8320E-05	2.4128E-05	8.4380E-02	2.4083E+01		3.3880E-01
1978	2.2710E-06	2.6399E-05	5.5930E-02	2.4139E+01	4.8400E-05	3.3885E-01
1979	2.2460E-06	2.8645E-05	6.4000E-02	2.4203E+01	1.3700E-05	3.3886E-01
1980	8.8000E-08	2.8733E-05	1.8980E-01	2.4393E+01	1.0000E-05	3.3887E-01
1981		2.8733E-05	1.7100E-01	2.4564E+01	6.3400E-04	3.3951E-01
1982	2.9320E-06	3.1665E-05	4.2140E-02	2.4606E+01	3.7200E-04	3.3988E-01
1983	4.5260E-06	3.6191E-05	1.7320E-02	2.4623E+01		3.3988E-01
1984		3.6191E-05	9.6950E-03	2.4633E+01	1.7000E-05	3.3989E-01
1985	1.1400E-05	4.7591E-05	1.3500E-03	2.4634E+01		3.3989E-01
1986	9.7800E-05	1.4539E-04	4.3870E-02	2.4678E+01	4.0000E-06	3.3990E-01
1987	2.2190E-05	1.6758E-04	5.4860E-03	2.4684E+01	2.0000E-06	3.3990E-01
1988	2.7910E-06	1.7037E-04	5.4880E-03	2.4689E+01	1.9000E-05	3.3992E-01
TOTAL	1.7037E-04		2.4689E+01		3.3992E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pu-238

	A Area <u>Liquid to Seepage Basins</u>		F Area <u>Atmospheric</u>		F Area <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967					1.2440E-01	1.2391E-01
1968			3.5700E-04	3.5559E-04	2.2670E-01	3.4874E-01
1969				3.5279E-04	4.5780E-01	8.0199E-01
1970			5.9000E-04	9.3769E-04	2.9500E-01	1.0895E+00
1971			1.5700E-03	2.4941E-03	1.1000E-01	1.1905E+00
1972			6.8000E-04	3.1518E-03	1.1000E-01	1.2907E+00
1973			5.4000E-04	3.6649E-03	3.1000E-02	1.3114E+00
1974			6.4000E-04	4.2735E-03	2.1300E-02	1.3223E+00
1975			1.0000E-05	4.2499E-03	2.9600E-02	1.3414E+00
1976			1.4800E-03	5.6906E-03	7.0000E-03	1.3378E+00
1977	4.4860E-05	4.4683E-05	2.8400E-04	5.9287E-03	1.6000E-02	1.3432E+00
1978	1.9920E-05	6.4173E-05	1.6600E-04	6.0474E-03	2.0000E-03	1.3347E+00
1979	8.2760E-05	1.4610E-04	4.2600E-04	6.4241E-03	7.0000E-03	1.3311E+00
1980	1.1000E-04	2.5452E-04	2.1700E-04	6.5897E-03	4.0000E-03	1.3246E+00
1981	8.4300E-03	8.6493E-03	4.4900E-04	6.9851E-03	2.7240E-02	1.3414E+00
1982	2.1300E-04	8.7934E-03	2.8810E-03	9.7998E-03	1.7680E-02	1.3484E+00
1983		8.7242E-03	5.6600E-04	1.0286E-02	8.7450E-03	1.3465E+00
1984		8.6556E-03	7.5000E-04	1.0953E-02	1.8000E-02	1.3538E+00
1985		8.5875E-03	3.3200E-04	1.1197E-02	1.8000E-02	1.3611E+00
1986		8.5199E-03	1.4200E-04	1.1250E-02	1.1470E-02	1.3618E+00
1987		8.4529E-03	1.7400E-04	1.1335E-02	6.7890E-03	1.3579E+00
1988		8.3864E-03	5.6300E-04	1.1807E-02	4.3960E-03	1.3516E+00
TOTAL	8.9005E-03		1.2817E-02		1.5541E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pu-238

	<u>H Area Atmospheric</u>		<u>H Area Liquid to Stream</u>		<u>H Area Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967	2.6000E-04	2.5897E-04			1.8370E-02	1.8298E-02
1968	6.4300E-04	8.9740E-04			2.9030E-01	3.0731E-01
1969	5.5850E-01	5.5719E-01			6.3610E-01	9.3848E-01
1970	2.0190E-02	5.7292E-01			2.5500E-01	1.1851E+00
1971	1.9880E-02	5.8821E-01	3.0100E-02	2.9981E-02	2.2300E-01	1.3979E+00
1972	1.5910E-02	5.9943E-01	5.0360E-02	7.9907E-02	2.9000E-01	1.6757E+00
1973	2.1530E-02	6.1616E-01	2.2280E-02	1.0147E-01	1.6110E-01	1.8230E+00
1974	4.1000E-03	6.1539E-01		1.0067E-01	7.6000E-02	1.8844E+00
1975	1.9640E-03	6.1251E-01		9.9880E-02	1.2410E-01	1.9932E+00
1976	1.4740E-02	6.2237E-01		9.9094E-02	8.1000E-02	2.0582E+00
1977	4.7370E-03	6.2219E-01		9.8314E-02	5.0000E-02	2.0918E+00
1978	6.7740E-03	6.2404E-01		9.7541E-02	6.2000E-02	2.1371E+00
1979	9.4600E-04	6.2008E-01		9.6773E-02	2.8000E-02	2.1482E+00
1980	2.5460E-03	6.1773E-01		9.6012E-02	9.0000E-03	2.1402E+00
1981	4.1200E-03	6.1698E-01		9.5256E-02	2.3040E-02	2.1463E+00
1982	1.1180E-03	6.1324E-01		9.4507E-02	9.7080E-03	2.1391E+00
1983	2.0540E-03	6.1046E-01		9.3763E-02	2.8260E-02	2.1504E+00
1984	6.1500E-04	6.0627E-01		9.3026E-02	6.0000E-03	2.1395E+00
1985	2.1200E-04	6.0171E-01		9.2294E-02	8.0000E-03	2.1306E+00
1986	1.3760E-03	5.9884E-01		9.1568E-02	1.3560E-02	2.1274E+00
1987	1.7880E-03	5.9591E-01		9.0847E-02	5.8410E-03	2.1164E+00
1988	2.6200E-04	5.9148E-01		9.0132E-02	1.2560E-03	2.1010E+00
TOTAL	6.8476E-01		1.0274E-01		2.3996E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pu-239

	<u>A Area</u> <u>Atmospheric</u>		<u>A Area</u> <u>Liquid to Seepage Basins</u>		<u>F Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956					2.2210E+00	2.2210E+00
1957					2.8000E-02	2.2489E+00
1958					3.8000E-02	2.2868E+00
1959					1.9000E-02	2.3058E+00
1960					2.1000E-02	2.3267E+00
1961					7.0320E-02	2.3970E+00
1962					9.0000E-03	2.4059E+00
1963					6.1600E-03	2.4120E+00
1964					2.8600E-03	2.4148E+00
1965					2.2200E-03	2.4169E+00
1966					3.3000E-03	2.4201E+00
1967					2.4000E-03	2.4225E+00
1968					2.7310E-03	2.4251E+00
1969					2.0210E-03	2.4271E+00
1970	3.1000E-04	3.1000E-04			1.9050E-03	2.4289E+00
1971	1.6000E-04	4.6998E-04			3.3300E-03	2.4322E+00
1972		4.6997E-04			1.8800E-03	2.4340E+00
1973		4.6996E-04			5.8000E-04	2.4345E+00
1974		4.6994E-04	5.4000E-04	5.3999E-04	1.5000E-04	2.4346E+00
1975		4.6993E-04	1.0780E-03	1.6180E-03	1.2800E-03	2.4358E+00
1976		4.6992E-04	3.1000E-05	1.6489E-03	1.2000E-04	2.4358E+00
1977		4.6990E-04	1.2410E-05	1.6613E-03	1.0000E-04	2.4359E+00
1978		4.6989E-04	9.2370E-05	1.7536E-03	1.0400E-04	2.4359E+00
1979		4.6988E-04	8.2190E-05	1.8357E-03	2.2600E-04	2.4361E+00
1980		4.6986E-04	1.0200E-04	1.9377E-03	2.4500E-04	2.4362E+00
1981		4.6985E-04	8.1500E-04	2.7526E-03	3.9800E-04	2.4366E+00
1982		4.6984E-04	1.9400E-04	2.9465E-03	7.7100E-04	2.4373E+00
1983		4.6982E-04		2.9464E-03	1.0520E-03	2.4382E+00
1984		4.6981E-04		2.9464E-03	4.9900E-04	2.4387E+00
1985		4.6979E-04		2.9463E-03	3.5000E-04	2.4389E+00
1986		4.6978E-04		2.9462E-03	4.2300E-04	2.4393E+00
1987		4.6977E-04		2.9461E-03	2.0700E-04	2.4394E+00
1988		4.6975E-04		2.9460E-03	2.3100E-04	2.4396E+00
TOTAL	4.7000E-04		2.9470E-03		2.8600E-04	2.4398E+00

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pu-239

	<u>F Area</u>		<u>H Area</u>		<u>H Area</u>	
	<u>Liquid to Seepage Basins</u>		<u>Atmospheric</u>		<u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955	6.7600E-02	6.7599E-02	4.4100E-01	4.4099E-01	4.6500E-02	4.6499E-02
1956	2.6560E-01	3.3319E-01	3.0000E-03	4.4398E-01	2.9450E-01	3.4099E-01
1957	7.6200E-02	4.0938E-01	4.7500E-03	4.4872E-01	3.6200E-02	3.7718E-01
1958	3.6400E-01	7.7337E-01	1.9000E-03	4.5061E-01	1.2600E-01	5.0317E-01
1959	4.0400E-01	1.1773E+00	2.8500E-03	4.5344E-01	1.2800E-01	6.3115E-01
1960	2.0280E-01	1.3801E+00	7.0000E-04	4.5413E-01	5.6700E-02	6.8784E-01
1961	1.6760E-01	1.5477E+00	2.8000E-03	4.5692E-01	1.1450E-01	8.0231E-01
1962	2.8280E-01	1.8304E+00	4.9800E-03	4.6188E-01	3.1600E-01	1.1183E+00
1963	2.8210E-01	2.1125E+00	6.4000E-04	4.6251E-01	9.1280E-02	1.2095E+00
1964	9.0300E-02	2.2027E+00	3.3400E-03	4.6584E-01	7.2960E-02	1.2825E+00
1965	3.1680E-01	2.5194E+00	1.3200E-02	4.7902E-01	2.8940E-01	1.5718E+00
1966	6.2390E-01	3.1432E+00	7.6650E-03	4.8667E-01	2.8500E-02	1.6003E+00
1967	7.3630E-01	3.8794E+00	7.6130E-03	4.9427E-01	3.2800E-02	1.6330E+00
1968	3.3200E-01	4.2113E+00	3.6470E-03	4.9791E-01	6.5000E-02	1.6980E+00
1969	4.7690E-01	4.6881E+00	5.8440E-02	5.5633E-01	1.3530E-02	1.7115E+00
1970	2.9500E-01	4.9830E+00	5.5500E-03	5.6186E-01	5.4000E-02	1.7654E+00
1971	1.8000E-01	5.1628E+00	6.3100E-03	5.6816E-01	2.7000E-02	1.7923E+00
1972	2.1000E-01	5.3727E+00	3.2100E-03	5.7135E-01	3.0000E-02	1.8223E+00
1973	5.7700E-02	5.4302E+00	1.3000E-03	5.7263E-01	3.5900E-02	1.8581E+00
1974	3.6500E-02	5.4665E+00	1.6600E-03	5.7428E-01	4.0700E-02	1.8988E+00
1975	1.6300E-02	5.4827E+00	4.0000E-04	5.7466E-01	1.4200E-02	1.9129E+00
1976	7.0000E-03	5.4895E+00	1.4000E-04	5.7479E-01	3.0000E-03	1.9159E+00
1977	1.2000E-02	5.5014E+00		5.7477E-01	2.0000E-03	1.9178E+00
1978	7.0000E-03	5.5082E+00		5.7475E-01	1.0000E-02	1.9278E+00
1979	1.6000E-02	5.5240E+00	1.5400E-04	5.7489E-01		1.9277E+00
1980	1.0000E-02	5.5339E+00	8.3700E-04	5.7571E-01	6.0000E-03	1.9337E+00
1981	4.1080E-02	5.5748E+00	2.0270E-03	5.7772E-01	1.1910E-02	1.9455E+00
1982	2.0960E-02	5.5956E+00	6.5200E-04	5.7836E-01	6.2810E-03	1.9517E+00
1983	7.5380E-03	5.6030E+00	2.2100E-04	5.7856E-01	2.3840E-03	1.9541E+00
1984	1.8000E-02	5.6208E+00	1.1000E-04	5.7865E-01		1.9540E+00
1985	2.0000E-02	5.6407E+00	7.4000E-05	5.7871E-01		1.9539E+00
1986	7.4600E-03	5.6480E+00	4.5000E-05	5.7874E-01	6.7620E-04	1.9546E+00
1987	2.3510E-03	5.6501E+00	4.2000E-05	5.7876E-01	2.2550E-04	1.9547E+00
1988	1.3120E-03	5.6513E+00	4.5000E-05	5.7879E-01	7.0770E-05	1.9548E+00
TOTAL	5.6551E+00		5.7930E-01		1.9562E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Pu-239

R Area
Purges to Seepage Basins

	<u>Original Release</u>	<u>Decay Corrected</u>
1954		
1955		
1956		
1957	3.0000E-01	3.0000E-01
1958		2.9999E-01
1959		2.9998E-01
1960		2.9997E-01
1961		2.9996E-01
1962		2.9995E-01
1963		2.9994E-01
1964		2.9994E-01
1965		2.9993E-01
1966		2.9992E-01
1967		2.9991E-01
1968		2.9990E-01
1969		2.9989E-01
1970		2.9988E-01
1971		2.9987E-01
1972		2.9987E-01
1973		2.9986E-01
1974		2.9985E-01
1975		2.9984E-01
1976		2.9983E-01
1977		2.9982E-01
1978		2.9981E-01
1979		2.9981E-01
1980		2.9980E-01
1981		2.9979E-01
1982		2.9978E-01
1983		2.9977E-01
1984		2.9976E-01
1985		2.9975E-01
1986		2.9975E-01
1987		2.9974E-01
1988		2.9973E-01

TOTAL 3.0000E-01

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Np-239

	<u>C Area</u> <u>Liquid to Stream</u>		<u>C Area</u> <u>Purges to Seepage Basins</u>		<u>K Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	5.3000E+00				1.0590E+01	
1961	4.0650E+01				1.8180E+01	
1962	4.1100E+00				8.1300E+00	
1963	2.9040E+01				2.1470E+01	
1964	1.1790E+01				2.4460E+01	
1965	1.9720E+01				4.0380E+01	
1966	2.1590E+01				6.5000E-01	
1967	3.2060E+01				7.8000E-01	
1968	3.1900E+00		8.1000E+00		3.3100E+00	
1969	2.4860E+01					
1970	4.7000E-01					
1971	1.6300E+00					
1972	3.0000E-02					
1973	1.0000E-03					
1974	8.0000E-03					
1975	8.0000E-03					
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	1.9446E+02		8.1000E+00		1.2795E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Np-239

	<u>K Area</u>		<u>L Area</u>		<u>L Area</u>	
	<u>Purges to Containment Basin</u>		<u>Liquid to Stream</u>		<u>Purges to Seepage Basins</u>	
	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>	<u>Original</u>	<u>Decay</u>
	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>	<u>Release</u>	<u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			4.8600E+00			
1961			3.0120E+01			
1962			4.5000E+00			
1963			3.5600E+00			
1964			2.0650E+01		1.1000E-01	
1965			3.5900E+00		1.1000E-01	
1966			1.8200E+00			
1967			3.6000E-01			
1968	6.6000E-01		8.8500E+00			
1969	1.0200E+00					
1970	2.4000E-01					
1971						
1972						
1973	1.0000E-03					
1974	1.0000E-03					
1975						
1976	1.0000E-03					
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	1.9230E+00		7.8310E+01		2.2000E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Np-239

	<u>P Area</u> <u>Liquid to Stream</u>		<u>P Area</u> <u>Purges to Seepage Basins</u>		<u>R Area</u> <u>Liquid to Stream</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.9480E+01				1.5310E+01	
1961	2.9790E+01				1.2100E+01	
1962	5.6420E+01				1.7740E+01	
1963	4.6610E+01				6.8350E+02	
1964	2.2050E+01				1.0220E+02	
1965	1.0650E+01					
1966	3.8200E+00					
1967	3.2400E+00		5.0000E-03			
1968	4.8800E+00					
1969	8.4000E-01					
1970						
1971						
1972						
1973	1.0000E-02					
1974						
1975						
1976						
1977						
1978						
1979						
1980						
1981						
1982						
1983						
1984						
1985						
1986						
1987						
1988						
TOTAL	1.9779E+02		5.0000E-03		8.3085E+02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Am-241

	A Area <u>Liquid to Seepage Basins</u>		F Area <u>Atmospheric</u>		F Area <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972						
1973						
1974						
1975						
1976						
1977			1.4750E-04	1.4738E-04	2.0000E-03	1.9984E-03
1978			1.1640E-03	1.3102E-03	2.1000E-02	2.2978E-02
1979	5.8250E-05	5.8203E-05	2.8400E-04	1.5919E-03	4.6500E-02	6.9404E-02
1980		5.8110E-05	1.0390E-03	2.6275E-03	2.0000E-02	8.9277E-02
1981	7.1300E-04	7.7044E-04	2.9400E-04	2.9171E-03	7.0100E-02	1.5918E-01
1982		7.6921E-04	3.7400E-04	3.2861E-03	1.7180E-02	1.7609E-01
1983		7.6798E-04	1.5200E-04	3.4327E-03	5.3480E-03	1.8115E-01
1984		7.6675E-04	1.1200E-04	3.5391E-03	2.0000E-02	2.0084E-01
1985		7.6552E-04	1.8900E-04	3.7223E-03	1.4000E-02	2.1451E-01
1986		7.6429E-04	6.9000E-05	3.7853E-03	9.0380E-03	2.2320E-01
1987		7.6307E-04	1.4800E-04	3.9271E-03	3.2810E-03	2.2612E-01
1988		7.6184E-04	6.9000E-05	3.9897E-03	2.3070E-03	2.2806E-01
TOTAL	7.7125E-04		4.0415E-03		2.3075E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Am-241

	<u>H Area</u> <u>Atmospheric</u>		<u>H Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954				
1955				
1956				
1957				
1958				
1959				
1960				
1961				
1962				
1963				
1964				
1965				
1966				
1967				
1968				
1969				
1970				
1971				
1972				
1973				
1974				
1975				
1976				
1977	1.9100E-04	1.9085E-04	1.0000E-02	9.9920E-03
1978	6.5500E-05	2.5599E-04	6.0000E-03	1.5971E-02
1979	7.1000E-05	3.2652E-04	1.5000E-03	1.7444E-02
1980	3.4000E-05	3.5997E-04	3.0000E-03	2.0414E-02
1981	2.0000E-04	5.5923E-04	3.4140E-03	2.3793E-02
1982	1.2400E-04	6.8224E-04	2.5260E-03	2.6278E-02
1983	1.0500E-04	7.8606E-04	1.1240E-02	3.7467E-02
1984	3.0000E-05	8.1478E-04	4.0000E-03	4.1404E-02
1985	2.3700E-04	1.0503E-03	9.0000E-03	5.0330E-02
1986	8.5000E-05	1.1335E-03	2.8500E-03	5.3097E-02
1987	5.6000E-05	1.1877E-03	3.6170E-03	5.6626E-02
1988	4.9000E-05	1.2347E-03	1.0180E-03	5.7553E-02
TOTAL	1.2475E-03		5.8165E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cm-242

A Area
Atmospheric

<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954	
1955	
1956	
1957	
1958	
1959	
1960	
1961	
1962	
1963	
1964	
1965	
1966	
1967	
1968	
1969	
1970	
1971	2.3400E-03
1972	1.0775E-03
1973	2.2847E-04
1974	4.8444E-05
1975	1.0272E-05
1976	2.1780E-06
1977	4.6181E-07
1978	
1979	
1980	
1981	
1982	
1983	
1984	
1985	
1986	
1987	
1988	

TOTAL 2.3400E-03

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cm-244

	<u>A Area Liquid to Stream</u>		<u>A Area Atmospheric</u>		<u>A Area Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964			3.1700E-02	3.1099E-02		
1965				2.9932E-02		
1966				2.8808E-02		
1967				2.7726E-02		
1968				2.6685E-02		
1969	3.0000E-02	2.9431E-02	2.1130E-02	4.6413E-02		
1970		2.8326E-02	4.1000E-04	4.5072E-02		
1971	3.2420E-01	3.4532E-01		4.3380E-02		
1972	2.7880E-02	3.5970E-01	9.0000E-05	4.1839E-02		
1973	3.6400E-03	3.4977E-01	1.9000E-05	4.0287E-02		
1974		3.3664E-01		3.8774E-02		
1975		3.2400E-01		3.7319E-02		
1976		3.1183E-01		3.5917E-02		
1977		3.0012E-01		3.4569E-02		
1978		2.8885E-01		3.3271E-02		
1979		2.7801E-01		3.2022E-02	5.8250E-05	5.7146E-05
1980		2.6757E-01		3.0819E-02		5.5000E-05
1981		2.5752E-01		2.9662E-02	5.0300E-04	5.4640E-04
1982		2.4785E-01		2.8548E-02		5.2589E-04
1983		2.3855E-01		2.7476E-02		5.0614E-04
1984		2.2959E-01		2.6445E-02		4.8714E-04
1985		2.2097E-01		2.5452E-02		4.6885E-04
1986		2.1267E-01		2.4496E-02		4.5124E-04
1987		2.0469E-01		2.3576E-02		4.3430E-04
1988		1.9700E-01		2.2691E-02		4.1799E-04
TOTAL	3.8572E-01		5.3349E-02		5.6125E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cm-244

	F Area Atmospheric		F Area Liquid to Seepage Basins		H Area Atmospheric	
	Original Release	Decay Corrected	Original Release	Decay Corrected	Original Release	Decay Corrected
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967					3.0000E-02	2.9431E-02
1968						2.8326E-02
1969						2.7263E-02
1970	5.0000E-04	4.9052E-04				2.6239E-02
1971	7.0000E-04	1.1588E-03				2.5254E-02
1972	1.1000E-04	1.2232E-03			1.9000E-04	2.4492E-02
1973	3.4000E-04	1.5109E-03	7.7700E-02	7.6227E-02	2.0000E-05	2.3592E-02
1974	3.9000E-04	1.8367E-03	2.3100E-02	9.6027E-02		2.2706E-02
1975		1.7678E-03		9.2422E-02		2.1854E-02
1976	2.6000E-04	1.9565E-03	2.1000E-02	1.0955E-01	7.0000E-05	2.1102E-02
1977	1.4750E-04	2.0277E-03	3.7000E-02	1.4174E-01	1.9100E-04	2.0497E-02
1978	7.2000E-05	2.0222E-03	4.0000E-03	1.4034E-01	6.5500E-05	1.9792E-02
1979	3.2600E-04	2.2661E-03	4.6500E-02	1.8069E-01	6.3000E-05	1.9110E-02
1980	8.7600E-04	3.0404E-03	8.0000E-03	1.8175E-01	2.0000E-05	1.8412E-02
1981	9.3000E-05	3.0175E-03	2.8730E-02	2.0312E-01	7.0000E-05	1.7790E-02
1982	1.3000E-04	3.0317E-03	7.0880E-03	2.0244E-01	3.5000E-05	1.7156E-02
1983	4.6000E-04	3.3692E-03	9.5800E-03	2.0424E-01	4.6000E-05	1.6557E-02
1984	2.1200E-04	3.4507E-03	2.5000E-02	2.2110E-01	4.7000E-05	1.5982E-02
1985	2.2000E-04	3.5369E-03	2.4000E-02	2.3634E-01	2.6000E-05	1.5407E-02
1986	2.3000E-05	3.4267E-03	2.6210E-02	2.5318E-01	5.0000E-06	1.4833E-02
1987	3.0800E-04	3.6002E-03	5.0170E-03	2.4860E-01	1.4000E-05	1.4290E-02
1988	6.3000E-05	3.5268E-03	2.9180E-03	2.4212E-01	4.0000E-06	1.3758E-02
TOTAL	5.2305E-03		3.4584E-01		3.0866E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Cm-244

H Area
Liquid to Seepage Basins

	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973	1.5300E-02	1.5010E-02
1974	1.6300E-02	3.0437E-02
1975		2.9295E-02
1976	5.0000E-03	3.3100E-02
1977	1.0000E-02	4.1668E-02
1978	6.0000E-03	4.5989E-02
1979	1.5000E-03	4.5734E-02
1980	2.0000E-03	4.5979E-02
1981	1.1600E-03	4.5391E-02
1982	1.1600E-03	4.4824E-02
1983	4.7890E-03	4.7840E-02
1984	4.0000E-03	4.9968E-02
1985	4.0000E-03	5.2016E-02
1986	7.5980E-04	5.0808E-02
1987	9.8050E-04	4.9862E-02
1988	4.4710E-04	4.8429E-02
TOTAL	7.3396E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>A Area</u> <u>Liquid to Stream</u>		<u>A Area</u> <u>Atmospheric</u>		<u>A Area</u> <u>Liquid to Seepage Basins</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954					7.3070E-02	7.3070E-02
1955					1.8060E-01	2.5367E-01
1956					1.8170E-01	4.3537E-01
1957					2.5270E-01	6.8807E-01
1958			1.0000E-02	1.0000E-02	5.2930E-02	7.4100E-01
1959			4.9000E-01	5.0000E-01	4.9760E-02	7.9076E-01
1960			8.0000E-02	5.8000E-01	9.2000E-02	8.8276E-01
1961			9.0000E-02	6.7000E-01	7.0000E-02	9.5276E-01
1962			2.2000E-01	8.9000E-01	1.7400E+00	2.6928E+00
1963			1.8400E-01	1.0740E+00	2.8470E-01	2.9775E+00
1964			5.2100E-02	1.1261E+00	3.2130E-01	3.2988E+00
1965			8.6900E-02	1.2130E+00	1.7520E-01	3.4740E+00
1966			5.1000E-03	1.2181E+00	4.6300E-02	3.5203E+00
1967			1.2400E-02	1.2305E+00	1.0580E-01	3.6261E+00
1968			1.6000E-03	1.2321E+00	7.8580E-01	4.4119E+00
1969			1.0270E-02	1.2424E+00	1.3960E+00	5.8079E+00
1970	1.1500E-02	1.1500E-02	5.8600E-03	1.2482E+00	3.7210E+00	9.5289E+00
1971	1.7500E-01	1.8650E-01	1.4100E-03	1.2496E+00	6.4740E-01	1.0176E+01
1972	3.8200E-03	1.9032E-01	6.7000E-04	1.2503E+00	3.1900E-02	1.0208E+01
1973	3.4400E-03	1.9376E-01	7.0000E-06	1.2503E+00	3.0150E-01	1.0510E+01
1974	3.8200E-03	1.9758E-01	3.5000E-05	1.2503E+00	2.9470E-02	1.0539E+01
1975	5.3440E-03	2.0292E-01	3.1000E-05	1.2504E+00	7.9950E-03	1.0547E+01
1976	2.8820E-03	2.0581E-01	2.3000E-05	1.2504E+00	3.6860E-03	1.0551E+01
1977	1.8320E-03	2.0764E-01	7.0000E-06	1.2504E+00	1.9950E-03	1.0553E+01
1978	7.7600E-04	2.0841E-01		1.2504E+00	8.5290E-04	1.0554E+01
1979	3.3500E-04	2.0875E-01		1.2504E+00	5.6900E-04	1.0554E+01
1980	2.4800E-04	2.0900E-01	3.6000E-05	1.2504E+00	2.6300E-04	1.0554E+01
1981	6.6400E-04	2.0966E-01	1.0000E-05	1.2505E+00	4.5200E-04	1.0555E+01
1982	6.4800E-04	2.1031E-01	1.9000E-05	1.2505E+00	1.0380E-03	1.0556E+01
1983	2.3500E-04	2.1054E-01	1.8500E-04	1.2507E+00		1.0556E+01
1984	3.7700E-04	2.1092E-01	5.1000E-05	1.2507E+00		1.0556E+01
1985	4.7500E-04	2.1140E-01	1.6000E-05	1.2507E+00		1.0556E+01
1986	4.1800E-04	2.1181E-01	2.6000E-05	1.2507E+00		1.0556E+01
1987	8.3700E-04	2.1265E-01	3.2000E-05	1.2508E+00		1.0556E+01
1988	8.2300E-04	2.1347E-01	3.4000E-05	1.2508E+00		1.0556E+01
TOTAL	2.1347E-01		1.2508E+00		1.0556E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>C Area Atmospheric</u>		<u>C Area Liquid to Stream</u>		<u>C Area Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	1.0000E-03	1.0000E-03				
1961	1.2500E-03	2.2500E-03				
1962	5.0000E-03	7.2500E-03				
1963	9.3000E-03	1.6550E-02				
1964	1.9000E-03	1.8450E-02				
1965	4.0000E-04	1.8850E-02				
1966	1.3000E-03	2.0150E-02				
1967	3.0000E-05	2.0180E-02				
1968	5.1000E-04	2.0690E-02				
1969	3.3500E-04	2.1025E-02				
1970	2.0000E-04	2.1225E-02				
1971	3.0000E-05	2.1255E-02				
1972	6.0000E-05	2.1315E-02				
1973	1.8100E-04	2.1496E-02				
1974	8.8000E-05	2.1584E-02				
1975	1.0000E-04	2.1684E-02				
1976	4.2100E-04	2.2105E-02				
1977	1.8100E-04	2.2286E-02				
1978	5.5000E-05	2.2341E-02	4.2820E-03	4.2820E-03		
1979	5.6000E-05	2.2397E-02	2.3500E-04	4.5170E-03	2.1400E-04	2.1400E-04
1980	9.4600E-04	2.3343E-02	3.3200E-01	3.3652E-01		2.1400E-04
1981	3.3300E-04	2.3676E-02	4.4600E-04	3.3696E-01		2.1400E-04
1982	5.5000E-05	2.3731E-02		3.3696E-01		2.1400E-04
1983	4.9000E-05	2.3780E-02		3.3696E-01		2.1400E-04
1984	1.6600E-04	2.3946E-02		3.3696E-01	4.2090E-02	4.2304E-02
1985	1.2000E-04	2.4066E-02		3.3696E-01	1.9130E-01	2.3360E-01
1986	6.9000E-05	2.4135E-02		3.3696E-01	7.2930E-03	2.4090E-01
1987	1.6800E-04	2.4303E-02		3.3696E-01		2.4090E-01
1988	1.6200E-04	2.4465E-02	1.2000E-05	3.3697E-01		2.4090E-01
TOTAL	2.4465E-02		3.3697E-01		2.4090E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>D Area</u> <u>Liquid to Stream</u>		<u>D Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955					9.5000E+00	9.5000E+00
1956					5.2600E+00	1.4760E+01
1957					5.8000E-01	1.5340E+01
1958						1.5340E+01
1959						1.5340E+01
1960						1.5340E+01
1961						1.5340E+01
1962						1.5340E+01
1963						1.5340E+01
1964	1.9000E-01	1.9000E-01				1.5340E+01
1965	2.2500E+00	2.4400E+00				1.5340E+01
1966	7.6000E-01	3.2000E+00				1.5340E+01
1967		3.2000E+00				1.5340E+01
1968		3.2000E+00				1.5340E+01
1969		3.2000E+00				1.5340E+01
1970		3.2000E+00				1.5340E+01
1971		3.2000E+00				1.5340E+01
1972		3.2000E+00				1.5340E+01
1973	1.8500E-03	3.2018E+00				1.5340E+01
1974	2.1910E-02	3.2238E+00				1.5340E+01
1975	1.9510E-02	3.2433E+00			1.3800E-04	1.5340E+01
1976	3.4360E-02	3.2776E+00			4.8000E-05	1.5340E+01
1977	1.1680E-02	3.2893E+00			1.6000E-05	1.5340E+01
1978	6.0580E-03	3.2954E+00			5.1200E-04	1.5341E+01
1979	1.6930E-02	3.3123E+00			1.1800E-04	1.5341E+01
1980	8.0860E-03	3.3204E+00			3.8400E-04	1.5341E+01
1981	9.9580E-03	3.3303E+00			4.7000E-05	1.5341E+01
1982	2.5870E-03	3.3329E+00			3.8700E-04	1.5342E+01
1983	1.3400E-02	3.3463E+00			5.0000E-06	1.5342E+01
1984	3.7080E-02	3.3834E+00				1.5342E+01
1985	2.6530E-02	3.4099E+00			5.9000E-05	1.5342E+01
1986	2.0180E-02	3.4301E+00	4.0000E-06	4.0000E-06		1.5342E+01
1987	7.7000E-04	3.4309E+00	9.0000E-06	1.3000E-05	9.0000E-06	1.5342E+01
1988	2.0000E-06	3.4309E+00	1.6000E-05	2.9000E-05	2.3200E-04	1.5342E+01
TOTAL	3.4309E+00		2.9000E-05		1.5342E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>F Area</u> <u>Liquid to Stream</u>		<u>F Area</u> <u>Liquid to Seepage Basins</u>		<u>H Area</u> <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954	8.0000E-03	8.0000E-03				
1955	4.5000E-02	5.3000E-02			2.4400E+01	2.4400E+01
1956	1.5700E-01	2.1000E-01			3.1700E+00	2.7570E+01
1957	5.1000E-02	2.6100E-01			1.0900E+00	2.8660E+01
1958	4.2000E-02	3.0300E-01				2.8660E+01
1959	5.9800E-01	9.0100E-01				2.8660E+01
1960	6.7000E+00	7.6010E+00				2.8660E+01
1961	2.8300E+00	1.0431E+01				2.8660E+01
1962	6.6700E-01	1.1098E+01				2.8660E+01
1963	7.2000E-01	1.1818E+01				2.8660E+01
1964	6.7000E-01	1.2488E+01				2.8660E+01
1965	1.9600E-01	1.2684E+01				2.8660E+01
1966	1.8000E-01	1.2864E+01				2.8660E+01
1967	6.9700E-01	1.3561E+01				2.8660E+01
1968	3.8900E-01	1.3950E+01				2.8660E+01
1969	2.2900E-01	1.4179E+01				2.8660E+01
1970	1.8000E-01	1.4359E+01				2.8660E+01
1971	4.9200E-01	1.4851E+01				2.8660E+01
1972	1.0900E-01	1.4960E+01				2.8660E+01
1973	1.9000E-01	1.5150E+01				2.8660E+01
1974	7.1230E-02	1.5221E+01			1.0000E-05	2.8660E+01
1975	3.2550E-02	1.5254E+01	1.4000E-02	1.4000E-02	2.4000E-05	2.8660E+01
1976	2.8240E-02	1.5282E+01	4.0000E-03	1.8000E-02	2.0000E-05	2.8660E+01
1977	2.8680E-02	1.5311E+01	1.0000E-03	1.9000E-02	4.0000E-06	2.8660E+01
1978	9.2780E-02	1.5403E+01		1.9000E-02	7.8000E-05	2.8660E+01
1979	7.7540E-02	1.5481E+01	7.0000E-03	2.6000E-02		2.8660E+01
1980	5.6380E-02	1.5537E+01	3.0000E-03	2.9000E-02	1.5300E-04	2.8660E+01
1981	3.0680E-01	1.5844E+01	1.0950E-03	3.0095E-02	1.3900E-04	2.8660E+01
1982	1.0250E-01	1.5947E+01	1.4700E-02	4.4795E-02	5.8000E-05	2.8660E+01
1983	1.9030E-02	1.5966E+01	3.8330E-04	4.5178E-02	3.2000E-05	2.8660E+01
1984	8.3690E-02	1.6049E+01		4.5178E-02	7.3000E-05	2.8661E+01
1985	8.5950E-02	1.6135E+01		4.5178E-02	1.9400E-04	2.8661E+01
1986	4.1550E-02	1.6177E+01	2.8220E-04	4.5460E-02		2.8661E+01
1987	6.7700E-02	1.6245E+01	2.2960E-04	4.5690E-02		2.8661E+01
1988	2.5450E-02	1.6270E+01		4.5690E-02		2.8661E+01
TOTAL	1.6270E+01		4.5690E-02		2.8661E+01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>H Area</u> <u>Liquid to Stream</u>		<u>H Area</u> <u>Liquid to Seepage Basins</u>		<u>K Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	8.4000E-02	8.4000E-02				
1956	1.4810E+00	1.5650E+00				
1957	2.5600E-01	1.8210E+00				
1958	3.4300E-01	2.1640E+00				
1959	3.4700E-01	2.5110E+00				
1960	1.6000E+00	4.1110E+00			1.8400E-03	1.8400E-03
1961	4.0000E-01	4.5110E+00			1.7000E-03	3.5400E-03
1962	2.8600E-01	4.7970E+00			4.0000E-03	7.5400E-03
1963	6.8000E-01	5.4770E+00			1.6900E-02	2.4440E-02
1964	7.2500E-01	6.2020E+00			1.4000E-03	2.5840E-02
1965	1.1800E+00	7.3820E+00			8.0000E-04	2.6640E-02
1966	2.0970E+00	9.4790E+00			5.0000E-04	2.7140E-02
1967	1.3300E+01	2.2779E+01			2.1000E-04	2.7350E-02
1968	2.2000E-01	2.2999E+01			7.6400E-04	2.8114E-02
1969	1.7600E-01	2.3175E+01			4.5550E-04	2.8569E-02
1970	2.7300E-01	2.3448E+01			1.4500E-04	2.8714E-02
1971	1.2800E-01	2.3576E+01			5.0000E-05	2.8764E-02
1972	1.8400E-01	2.3760E+01			1.9000E-04	2.8954E-02
1973	9.0430E-02	2.3850E+01			2.8600E-04	2.9240E-02
1974	2.9130E-02	2.3880E+01			9.9000E-05	2.9339E-02
1975	3.7600E-03	2.3883E+01	1.1300E-01	1.1300E-01	1.2100E-04	2.9460E-02
1976	1.5120E-02	2.3898E+01	2.0900E-01	3.2200E-01	1.2800E-04	2.9588E-02
1977	1.6500E-02	2.3915E+01	1.0800E-01	4.3000E-01	1.7800E-04	2.9766E-02
1978	4.2760E-02	2.3958E+01	4.1200E-01	8.4200E-01	6.6000E-05	2.9832E-02
1979	4.0390E-02	2.3998E+01	2.4300E-01	1.0850E+00	6.5000E-05	2.9897E-02
1980	1.6840E-02	2.4015E+01	1.4500E-01	1.2300E+00	3.0300E-04	3.0200E-02
1981	2.5570E-02	2.4040E+01	1.7830E-01	1.4083E+00	4.1900E-04	3.0619E-02
1982	2.5950E-02	2.4066E+01	1.2970E-01	1.5380E+00	1.8600E-04	3.0805E-02
1983	1.2090E-02	2.4078E+01	1.5210E-01	1.6901E+00	1.5100E-03	3.2315E-02
1984	5.7320E-03	2.4084E+01	6.9000E-02	1.7591E+00	1.3800E-04	3.2453E-02
1985	1.2730E-02	2.4097E+01	1.0000E-02	1.7691E+00	1.7000E-04	3.2623E-02
1986	8.2150E-03	2.4105E+01		1.7691E+00	4.5500E-04	3.3078E-02
1987	4.1350E-02	2.4146E+01	7.1940E-04	1.7698E+00	1.9300E-04	3.3271E-02
1988	6.2850E-03	2.4153E+01	1.1610E-03	1.7710E+00	1.1110E-03	3.4382E-02
TOTAL	2.4153E+01		1.7710E+00		3.4382E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>K Area</u> <u>Liquid to Stream</u>		<u>K Area</u> <u>Purges to Containment Basin</u>		<u>L Area</u> <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960					3.7000E-04	3.7000E-04
1961					2.2700E-03	2.6400E-03
1962					1.0000E-02	1.2640E-02
1963					6.6000E-03	1.9240E-02
1964					4.4000E-03	2.3640E-02
1965					2.8000E-03	2.6440E-02
1966			4.4000E+01	4.4000E+01	5.1000E-03	3.1540E-02
1967			1.1600E+02	1.6000E+02	9.6000E-04	3.2500E-02
1968				1.6000E+02	1.1000E-04	3.2610E-02
1969				1.6000E+02		3.2610E-02
1970				1.6000E+02		3.2610E-02
1971				1.6000E+02		3.2610E-02
1972				1.6000E+02		3.2610E-02
1973				1.6000E+02		3.2610E-02
1974				1.6000E+02		3.2610E-02
1975				1.6000E+02		3.2610E-02
1976				1.6000E+02		3.2610E-02
1977				1.6000E+02		3.2610E-02
1978	3.4260E-06	3.4260E-06		1.6000E+02		3.2610E-02
1979	6.4820E-01	6.4820E-01		1.6000E+02		3.2610E-02
1980	5.1700E-03	6.5337E-01		1.6000E+02		3.2610E-02
1981		6.5337E-01		1.6000E+02		3.2610E-02
1982		6.5337E-01		1.6000E+02	3.6400E-04	3.2974E-02
1983		6.5337E-01		1.6000E+02	2.4000E-05	3.2998E-02
1984		6.5337E-01	3.6880E-02	1.6004E+02	1.0000E-06	3.2999E-02
1985		6.5337E-01	1.1360E-01	1.6015E+02	9.0000E-06	3.3008E-02
1986	1.6800E-03	6.5505E-01	3.5400E-02	1.6019E+02	3.3000E-05	3.3041E-02
1987		6.5505E-01	1.8100E-02	1.6020E+02	4.5000E-05	3.3086E-02
1988		6.5505E-01	1.9340E-03	1.6021E+02	3.6600E-04	3.3452E-02
TOTAL	6.5505E-01		1.6021E+02		3.3452E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>L Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972						
1973						
1974						
1975						
1976						
1977					9.8300E-04	9.8300E-04
1978					3.8800E-04	1.3710E-03
1979					1.8400E-04	1.5550E-03
1980						1.5550E-03
1981	1.5810E-02	1.5810E-02				1.5550E-03
1982		1.5810E-02				1.5550E-03
1983	7.3000E-05	1.5883E-02				1.5550E-03
1984	4.5000E-05	1.5928E-02				1.5550E-03
1985	2.8700E-04	1.6215E-02	6.0600E-04	6.0600E-04		1.5550E-03
1986		1.6215E-02	2.7350E-02	2.7956E-02		1.5550E-03
1987		1.6215E-02	1.4010E-02	4.1966E-02		1.5550E-03
1988		1.6215E-02	3.5650E-03	4.5531E-02		1.5550E-03
TOTAL	1.6215E-02		4.5531E-02		1.5550E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>P Area Atmospheric</u>		<u>P Area Liquid to Stream</u>		<u>P Area Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960	2.1000E-04	2.1000E-04				
1961	1.7500E-03	1.9600E-03				
1962	6.9000E-02	7.0960E-02				
1963	1.3000E-03	7.2260E-02				
1964	1.0000E-03	7.3260E-02				
1965	2.5000E-03	7.5760E-02				
1966	9.0000E-04	7.6660E-02				
1967	1.3000E-05	7.6673E-02				
1968	1.1150E-03	7.7788E-02				
1969	3.7500E-04	7.8163E-02				
1970	3.1800E-04	7.8481E-02				
1971	6.0000E-05	7.8541E-02				
1972	9.1000E-05	7.8632E-02				
1973	1.3200E-04	7.8764E-02				
1974	5.8000E-05	7.8822E-02				
1975	1.2300E-04	7.8945E-02				
1976	1.3900E-04	7.9084E-02				
1977	1.0900E-04	7.9193E-02				
1978	2.7000E-05	7.9220E-02				
1979	3.9000E-05	7.9259E-02				
1980	1.7000E-04	7.9429E-02	3.2560E-03	3.2560E-03		
1981	1.5300E-04	7.9581E-02		3.2560E-03		
1982	2.6000E-05	7.9607E-02		3.2560E-03		
1983	4.7000E-05	7.9654E-02		3.2560E-03		
1984	7.4000E-05	7.9728E-02		3.2560E-03	3.0520E-01	3.0520E-01
1985	1.1100E-04	7.9839E-02		3.2560E-03	3.0590E-01	6.1110E-01
1986	3.8200E-04	8.0221E-02		3.2560E-03	1.2690E-01	7.3800E-01
1987	2.9800E-04	8.0519E-02		3.2560E-03	9.7340E-02	8.3534E-01
1988	2.5900E-04	8.0778E-02		3.2560E-03	2.6430E-05	8.3537E-01
TOTAL	8.0778E-02		3.2560E-03		8.3537E-01	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Beta+Gamma

	<u>CMX-TNX</u> <u>Liquid to Seepage Basins</u>		<u>R Area</u> <u>Atmospheric</u>		<u>Central Shops</u> <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960			3.0000E-04	3.0000E-04		
1961			1.2000E-03	1.5000E-03		
1962			5.0000E-03	6.5000E-03		
1963			4.5000E-03	1.1000E-02		
1964			7.0000E-04	1.1700E-02	3.8000E-03	3.8000E-03
1965				1.1700E-02	1.3000E-02	1.6800E-02
1966				1.1700E-02	1.5000E-03	1.8300E-02
1967				1.1700E-02		1.8300E-02
1968				1.1700E-02		1.8300E-02
1969				1.1700E-02		1.8300E-02
1970				1.1700E-02		1.8300E-02
1971				1.1700E-02		1.8300E-02
1972				1.1700E-02		1.8300E-02
1973				1.1700E-02		1.8300E-02
1974				1.1700E-02		1.8300E-02
1975				1.1700E-02		1.8300E-02
1976				1.1700E-02		1.8300E-02
1977				1.1700E-02		1.8300E-02
1978				1.1700E-02		1.8300E-02
1979				1.1700E-02	4.0000E-06	1.8304E-02
1980	9.0000E-06	9.0000E-06		1.1700E-02	2.9000E-05	1.8333E-02
1981		9.0000E-06		1.1700E-02	2.0000E-06	1.8335E-02
1982		9.0000E-06		1.1700E-02	1.8500E-04	1.8520E-02
1983		9.0000E-06		1.1700E-02		1.8520E-02
1984		9.0000E-06		1.1700E-02	1.2000E-05	1.8532E-02
1985	6.8000E-05	7.7000E-05		1.1700E-02		1.8532E-02
1986		7.7000E-05		1.1700E-02		1.8532E-02
1987		7.7000E-05		1.1700E-02		1.8532E-02
1988		7.7000E-05		1.1700E-02		1.8532E-02
TOTAL	7.7000E-05		1.1700E-02	1.1700E-02	1.8532E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	A Area <u>Liquid to Stream</u>		A Area <u>Atmospheric</u>		A Area <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954					2.8000E-04	2.8000E-04
1955					2.4700E-02	2.4980E-02
1956					7.8710E-02	1.0369E-01
1957					3.5620E-02	1.3931E-01
1958					4.3580E-02	1.8289E-01
1959					1.9120E-02	2.0201E-01
1960					3.0000E-02	2.3201E-01
1961			2.2000E-04	2.2000E-04	2.9000E-02	2.6101E-01
1962			3.0000E-04	5.2000E-04	4.0000E-02	3.0101E-01
1963			2.4200E-04	7.6200E-04	2.8700E-02	3.2971E-01
1964				7.6200E-04	3.2100E-02	3.6181E-01
1965				7.6200E-04	3.9000E-02	4.0081E-01
1966				7.6200E-04	1.7000E-02	4.1781E-01
1967				7.6200E-04	2.9400E-02	4.4721E-01
1968			5.0000E-04	1.2620E-03	2.5870E-01	7.0591E-01
1969			4.6000E-04	1.7220E-03	9.4400E-01	1.6499E+00
1970	3.5000E-03	3.5000E-03	3.0000E-04	2.0220E-03	1.1360E+00	2.7859E+00
1971		3.5000E-03	5.0000E-04	2.5220E-03	9.7940E-01	3.7653E+00
1972		3.5000E-03		2.5220E-03	7.1800E-02	3.8371E+00
1973		3.5000E-03	1.9000E-05	2.5410E-03	3.0140E-01	4.1385E+00
1974	1.2600E-03	4.7600E-03	3.1000E-05	2.5720E-03	2.2100E-02	4.1606E+00
1975	2.2040E-03	6.9640E-03	3.0000E-06	2.5750E-03	2.6770E-03	4.1633E+00
1976	1.0140E-03	7.9780E-03	2.0000E-06	2.5770E-03	5.0600E-04	4.1638E+00
1977	6.3100E-04	8.6090E-03	1.0000E-06	2.5780E-03	3.2990E-05	4.1638E+00
1978	4.4100E-04	9.0500E-03	3.0000E-06	2.5810E-03		4.1638E+00
1979	5.0000E-04	9.5500E-03		2.5810E-03		4.1638E+00
1980	1.4400E-04	9.6940E-03	1.1000E-05	2.5920E-03	6.1700E-04	4.1644E+00
1981	2.8600E-04	9.9800E-03		2.5920E-03		4.1644E+00
1982	2.3700E-04	1.0217E-02		2.5920E-03	8.3700E-04	4.1653E+00
1983	7.0000E-05	1.0287E-02	6.0000E-06	2.5980E-03		4.1653E+00
1984	1.0000E-04	1.0387E-02		2.5980E-03		4.1653E+00
1985	1.3000E-04	1.0517E-02		2.5980E-03		4.1653E+00
1986	1.5700E-04	1.0674E-02	3.0000E-06	2.6010E-03		4.1653E+00
1987	2.6000E-04	1.0934E-02	1.2000E-05	2.6130E-03		4.1653E+00
1988	2.0600E-04	1.1140E-02	1.0000E-05	2.6230E-03		4.1653E+00
TOTAL	1.1140E-02		2.6230E-03		4.1653E+00	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	<u>C Area Atmospheric</u>		<u>C Area Liquid to Stream</u>		<u>C Area Purges to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972			4.0000E-05	4.0000E-05		
1973	2.3400E-06	2.3400E-06	3.0000E-03	3.0400E-03		
1974	2.8300E-06	5.1700E-06		3.0400E-03		
1975	6.0600E-06	1.1230E-05	5.0000E-03	8.0400E-03		
1976	3.8100E-06	1.5040E-05	1.0000E-03	9.0400E-03		
1977	2.5800E-06	1.7620E-05	1.1500E-04	9.1550E-03		
1978	7.3000E-07	1.8350E-05	2.4490E-05	9.1795E-03	2.8200E-05	2.8200E-05
1979	7.0000E-07	1.9050E-05	2.0000E-06	9.1815E-03	8.9000E-05	1.1720E-04
1980	9.3000E-07	1.9980E-05		9.1815E-03	2.8400E-04	4.0120E-04
1981	3.9980E-06	2.3978E-05	2.6800E-04	9.4495E-03	9.9000E-04	1.3912E-03
1982	7.0000E-07	2.4678E-05	1.9400E-04	9.6435E-03	5.3600E-04	1.9272E-03
1983	7.2000E-07	2.5398E-05		9.6435E-03	1.2130E-03	3.1402E-03
1984	2.4210E-06	2.7819E-05		9.6435E-03	4.7800E-04	3.6182E-03
1985	1.1600E-06	2.8979E-05		9.6435E-03	1.7200E-04	3.7902E-03
1986	1.7000E-06	3.0679E-05		9.6435E-03	1.7540E-05	3.8077E-03
1987	6.4000E-07	3.1319E-05	1.2000E-05	9.6555E-03		3.8077E-03
1988	2.6840E-06	3.4003E-05	1.2000E-05	9.6675E-03		3.8077E-03
TOTAL	3.4003E-05		9.6675E-03		3.8077E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	<u>D Area</u> <u>Liquid to Stream</u>		<u>D Area</u> <u>Atmospheric</u>		<u>F Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965					5.1140E-02	5.1140E-02
1966					1.9450E-02	7.0590E-02
1967					3.0000E-04	7.0890E-02
1968						7.0890E-02
1969						7.0890E-02
1970						7.0890E-02
1971						7.0890E-02
1972	1.1030E-02	1.1030E-02				7.0890E-02
1973	2.6400E-03	1.3670E-02				7.0890E-02
1974	6.0000E-05	1.3730E-02				7.0890E-02
1975	8.9000E-05	1.3819E-02				7.0890E-02
1976	1.9600E-04	1.4015E-02				7.0890E-02
1977	4.1000E-05	1.4056E-02				7.0890E-02
1978	2.8000E-05	1.4084E-02				7.0890E-02
1979	2.1000E-05	1.4105E-02				7.0890E-02
1980	6.0000E-06	1.4111E-02				7.0890E-02
1981	1.8600E-04	1.4297E-02				7.0890E-02
1982	3.1600E-04	1.4613E-02				7.0890E-02
1983	5.2600E-04	1.5139E-02				7.0890E-02
1984	5.8900E-04	1.5728E-02				7.0890E-02
1985	7.4400E-04	1.6472E-02				7.0890E-02
1986	5.0000E-05	1.6522E-02			5.1000E-05	7.0941E-02
1987		1.6522E-02			5.6000E-05	7.0997E-02
1988		1.6522E-02	2.0000E-06	2.0000E-06	3.6400E-04	7.1361E-02
TOTAL	1.6522E-02		2.0000E-06		7.1361E-02	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	F Area <u>Liquid to Stream</u>		F Area <u>Liquid to Seepage Basins</u>		H Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954	2.4000E-03	2.4000E-03				
1955	4.5100E-02	4.7500E-02				
1956	3.7000E-02	8.4500E-02				
1957	2.2000E-03	8.6700E-02				
1958	2.0000E-03	8.8700E-02				
1959	2.0000E-03	9.0700E-02				
1960	9.3000E-03	1.0000E-01				
1961	7.0000E-03	1.0700E-01				
1962	2.9000E-03	1.0990E-01				
1963	5.0000E-03	1.1490E-01				
1964	3.0000E-03	1.1790E-01				
1965	2.0000E-03	1.1990E-01			6.9500E-04	6.9500E-04
1966	4.1000E-03	1.2400E-01			1.1450E-03	1.8400E-03
1967	1.0300E-02	1.3430E-01				1.8400E-03
1968	6.8000E-03	1.4110E-01				1.8400E-03
1969	4.5000E-03	1.4560E-01				1.8400E-03
1970	9.3000E-03	1.5490E-01				1.8400E-03
1971	1.1800E-02	1.6670E-01				1.8400E-03
1972	5.4600E-03	1.7216E-01				1.8400E-03
1973	8.7800E-03	1.8094E-01				1.8400E-03
1974	5.4300E-03	1.8637E-01				1.8400E-03
1975	4.5400E-03	1.9091E-01				1.8400E-03
1976	2.3500E-03	1.9326E-01				1.8400E-03
1977	2.7900E-03	1.9605E-01				1.8400E-03
1978	2.5010E-03	1.9855E-01				1.8400E-03
1979	4.5000E-03	2.0305E-01				1.8400E-03
1980	3.1200E-03	2.0617E-01				1.8400E-03
1981	5.7900E-03	2.1196E-01				1.8400E-03
1982	6.2000E-03	2.1816E-01				1.8400E-03
1983	4.4500E-03	2.2261E-01				1.8400E-03
1984	2.9140E-02	2.5175E-01				1.8400E-03
1985	5.1370E-03	2.5689E-01				1.8400E-03
1986	7.1930E-03	2.6408E-01	1.2060E+00	1.2060E+00	2.0000E-06	1.8420E-03
1987	3.3380E-03	2.6742E-01	5.5130E-02	1.2611E+00	4.2000E-05	1.8840E-03
1988	4.6690E-03	2.7209E-01	3.2840E-02	1.2940E+00	2.3000E-05	1.9070E-03
TOTAL	2.7209E-01		1.2940E+00		1.9070E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	<u>H Area</u> <u>Liquid to Stream</u>		<u>H Area</u> <u>Liquid to Seepage Basins</u>		<u>K Area</u> <u>Atmospheric</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955	1.2500E-02	1.2500E-02				
1956	5.1000E-03	1.7600E-02				
1957	1.8000E-03	1.9400E-02				
1958	9.0000E-03	2.8400E-02				
1959	1.1000E-02	3.9400E-02				
1960	7.5000E-03	4.5900E-02				
1961	9.8000E-03	5.6700E-02				
1962	8.6000E-03	6.5300E-02				
1963	1.1000E-02	7.6300E-02				
1964	1.2000E-02	8.8300E-02				
1965	9.0000E-03	9.7300E-02				
1966	1.0000E-02	1.0730E-01				
1967	5.4000E-03	1.1270E-01				
1968	5.1000E-03	1.1780E-01				
1969	6.1000E-03	1.2390E-01				
1970	7.8000E-03	1.3170E-01				
1971		1.3170E-01				
1972		1.3170E-01				
1973		1.3170E-01			4.9900E-06	4.9900E-06
1974	1.9200E-03	1.3362E-01			2.2200E-06	7.2100E-06
1975	1.7700E-03	1.3539E-01			3.9000E-06	1.1110E-05
1976	2.7500E-03	1.3814E-01			3.2900E-06	1.4400E-05
1977	3.2000E-03	1.4134E-01			1.9100E-06	1.6310E-05
1978	2.7060E-03	1.4405E-01			1.7700E-06	1.8080E-05
1979	3.6800E-03	1.4773E-01			6.4000E-07	1.8720E-05
1980	2.4800E-03	1.5021E-01			2.6300E-06	2.1350E-05
1981	9.4000E-04	1.5115E-01			3.6200E-06	2.4970E-05
1982	1.9600E-03	1.5311E-01			1.3700E-06	2.6340E-05
1983	1.3700E-03	1.5448E-01			3.5400E-06	2.9880E-05
1984	7.3100E-04	1.5521E-01			2.7400E-06	3.2620E-05
1985	7.7000E-04	1.5598E-01			1.6420E-06	3.4262E-05
1986	9.3500E-04	1.5691E-01	2.2100E-02	2.2100E-02	3.8300E-06	3.8092E-05
1987	1.4470E-02	1.7138E-01	2.4950E-02	4.7050E-02	4.4050E-06	4.2497E-05
1988	6.4900E-04	1.7203E-01	2.9550E-03	5.0005E-02	1.5800E-06	4.4077E-05
TOTAL	1.7203E-01		5.0005E-02		4.4077E-05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	K Area <u>Liquid to Stream</u>		K Area <u>Purges to Containment Basin</u>		L Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972	4.1600E-03	4.1600E-03	4.7000E-04	4.7000E-04		
1973	4.0000E-03	8.1600E-03		4.7000E-04		
1974		8.1600E-03	1.0000E-03	1.4700E-03		
1975		8.1600E-03	2.0000E-03	3.4700E-03		
1976		8.1600E-03	5.0000E-03	8.4700E-03		
1977	5.6000E-05	8.2160E-03	6.8200E-04	9.1520E-03		
1978		8.2160E-03	3.5020E-04	9.5022E-03		
1979	1.1800E-04	8.3340E-03	2.8200E-04	9.7842E-03		
1980	2.4000E-05	8.3580E-03	3.7000E-04	1.0154E-02		
1981		8.3580E-03	1.5150E-03	1.1669E-02		
1982	2.2000E-04	8.5780E-03	7.4660E-04	1.2416E-02	3.0000E-07	3.0000E-07
1983	1.3200E-04	8.7100E-03	8.3620E-04	1.3252E-02	9.6000E-07	1.2600E-06
1984	1.7000E-05	8.7270E-03	8.3700E-04	1.4089E-02	8.3000E-07	2.0900E-06
1985		8.7270E-03	6.8860E-03	2.0975E-02	6.4000E-07	2.7300E-06
1986	1.3400E-04	8.8610E-03	1.0850E-03	2.2060E-02	6.2200E-07	3.3520E-06
1987	1.3100E-04	8.9920E-03	2.6410E-04	2.2324E-02	7.1400E-07	4.0660E-06
1988		8.9920E-03	6.4150E-05	2.2388E-02	1.5410E-06	5.6070E-06
TOTAL	8.9920E-03		2.2388E-02		5.6070E-06	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	<u>L Area</u> <u>Liquid to Stream</u>		<u>L Area</u> <u>Purges to Seepage Basins</u>		<u>L Area</u> <u>Purges to Oil & Chemical Basin</u>	
	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>	<u>Original</u> <u>Release</u>	<u>Decay</u> <u>Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972					2.2500E-03	2.2500E-03
1973						2.2500E-03
1974						2.2500E-03
1975						2.2500E-03
1976						2.2500E-03
1977					3.2000E-05	2.2820E-03
1978					3.1790E-06	2.2852E-03
1979						2.2852E-03
1980						2.2852E-03
1981	9.5000E-05	9.5000E-05				2.2852E-03
1982	2.1000E-05	1.1600E-04				2.2852E-03
1983	5.9000E-05	1.7500E-04				2.2852E-03
1984	3.5800E-04	5.3300E-04				2.2852E-03
1985	2.2300E-04	7.5600E-04				2.2852E-03
1986		7.5600E-04	1.1660E-05	1.1660E-05		2.2852E-03
1987		7.5600E-04	8.6510E-06	2.0311E-05		2.2852E-03
1988		7.5600E-04	7.5980E-06	2.7909E-05		2.2852E-03
TOTAL	7.5600E-04		2.7909E-05		2.2852E-03	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	L Area <u>Liquid to L Lake</u>		M Area <u>Atmospheric</u>		P Area <u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972					1.5880E-06	1.5880E-06
1973			3.6800E-05	3.6800E-05	1.1600E-06	2.7480E-06
1974			7.2000E-06	4.4000E-05	4.1800E-06	6.9280E-06
1975			6.7000E-06	5.0700E-05	4.3600E-06	1.1288E-05
1976			1.7490E-05	6.8190E-05	2.4000E-06	1.3688E-05
1977			1.0520E-05	7.8710E-05	8.3000E-07	1.4518E-05
1978			9.9380E-06	8.8648E-05	4.0000E-07	1.4918E-05
1979			3.6500E-06	9.2298E-05	3.5000E-07	1.5268E-05
1980			7.1100E-07	9.3009E-05	1.0700E-06	1.6338E-05
1981			8.6370E-06	1.0165E-04	4.5000E-07	1.6788E-05
1982			1.2140E-06	1.0286E-04	4.0000E-07	1.7188E-05
1983			5.7700E-06	1.0863E-04	6.3000E-07	1.7818E-05
1984			9.2760E-06	1.1791E-04	1.6020E-06	1.9420E-05
1985			1.8900E-05	1.3681E-04	2.8400E-06	2.2260E-05
1986			1.5910E-05	1.5272E-04	2.7700E-06	2.5030E-05
1987	4.1000E-05	4.1000E-05	2.3240E-06	1.5504E-04	1.9400E-06	2.6970E-05
1988		4.1000E-05				
TOTAL	4.1000E-05		1.5504E-04		2.6970E-05	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Curies)

Un I.D. Alpha

	P Area <u>Liquid to Stream</u>		P Area <u>Purges to Seepage Basins</u>		Central Shops <u>Liquid to Seepage Basins</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972	6.6000E-04	6.6000E-04				
1973		6.6000E-04				
1974	7.0000E-03	7.6600E-03				
1975	5.0000E-03	1.2660E-02				
1976	1.0000E-03	1.3660E-02				
1977	1.4690E-03	1.5129E-02				
1978	5.0540E-05	1.5180E-02	3.9650E-05	3.9650E-05		
1979		1.5180E-02	3.1700E-04	3.5665E-04		
1980		1.5180E-02	1.4600E-04	5.0265E-04	2.0000E-06	2.0000E-06
1981	7.0000E-05	1.5250E-02	6.0700E-04	1.1096E-03	1.0000E-06	3.0000E-06
1982	9.5000E-05	1.5345E-02	2.8320E-03	3.9416E-03	1.3000E-05	1.6000E-05
1983	1.3600E-04	1.5481E-02	1.4950E-03	5.4366E-03	4.7300E-04	4.8900E-04
1984	2.2200E-04	1.5703E-02	3.0980E-03	8.5346E-03	1.0000E-06	4.9000E-04
1985		1.5703E-02	8.6100E-04	9.3956E-03		4.9000E-04
1986		1.5703E-02	2.9760E-04	9.6932E-03		4.9000E-04
1987		1.5703E-02	1.7530E-04	9.8685E-03		4.9000E-04
1988		1.5703E-02	3.0650E-06	9.8716E-03		4.9000E-04
TOTAL	1.5703E-02		9.8716E-03		4.9000E-04	

SRS RADIOACTIVE RELEASES BY NUCLIDE 1954-1988
(Millicuries)

	Building 235-F Atmospheric		Building 772-F Atmospheric	
	Alpha	Nonvolatile Beta	Alpha	Nonvolatile Beta
1961	0.001	1		
1962	0.001	1		
1963	0.001	1		
1964	0.001	1		
1965	0.001	2		
1966	0.003	0.2		
1967	0.3	2		
1968	0.001	0.6		
1969	0.012	0.1		
1970	0.012	0.1		
1971	0.019	0.1		
1972	0.09	0.05	0.52	0.13
1973	0.06	0.07	0.19	0.6
1974	0.01	0.03	0.03	0.2
1975	0.002	0.01	0.03	0.1
1976	0.001	0.01	0.03	0.1
1977 ^a			0.07	0.05
1978 ^a			0.11	0.42
1979 ^a			0.05	0.10
1980 ^a			0.15	0.36
1981 ^a			0.28	1.7
1982 ^a			0.15	0.32
1983 ^a			0.03	0.18
1984 ^a			0.05	1.72
1985 ^b			0.02	0.84

^a Beginning in 1977, effluents were diverted to sand filter.

^b Releases after 1985 are totaled under F-Area atmospheric category.

Summary C Data Tables:

***SRS Total Radioactive Releases
(By Year)***

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1954-1988

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	4.8519E+12		2.7724E+14		1.3216E+12	
H-3	1.2523E+06	5.7744E+05	1.5140E+06	6.0684E+05	2.4180E+07	9.3010E+06
C-14					2.9538E+03	2.9469E+03
P-32	1.6012E+02		3.6367E+06			
S-35	2.8576E+02	8.9302E-04	1.4680E+03			
Ar-41					6.3591E+06	
Cr-51	7.0940E+02	2.7786E-05	4.4821E+03			
Mn-54	1.1000E-05		6.4101E-01	1.9021E-06		
Co-58	2.7272E+00	5.1167E-05				
Co-60	1.7822E+01	1.8360E+00	6.6378E+01	2.7967E+00	9.1507E-02	8.4758E-03
Zn-65	7.8351E+00	1.1763E-02	1.4235E+02			
Se-75					1.8730E-04	8.7441E-06
Be-82					4.0000E-02	
Kr-85					1.0565E+07	6.1084E+06
Kr-85m					1.1730E+05	
Kr-87					1.9939E+04	
Kr-88					9.3780E+04	
Sr-89	1.0450E+02	2.2589E-03	2.1640E+02			
Sr-90	2.9914E+02	1.4904E+02	1.0387E+02	5.8618E+01		
Sr-89,90	1.1266E-01	6.7712E-02	5.8775E-02	3.7473E-02	1.5371E+00	8.1759E-01
Y-91	5.1845E-01		1.1603E+02			
Zr-95	7.7219E+01	2.9796E-03			5.5747E-01	1.0988E-04
Nb-95	6.7295E+01	6.6398E-04			1.0787E+00	6.0090E-05
Zr,Nb-95	6.9196E+02	5.8769E-06	1.2730E+02		2.5597E+00	
Mo-99			2.2880E+01			
Ru-103	3.2969E+01	1.8534E-07			1.9066E+01	1.8563E-05
Ru-106	1.6462E+03	3.0654E+00			4.5959E+01	8.7126E-02
Ru-103,106	6.2492E+01	9.2533E-04	5.8630E+01	1.2145E-05	9.3117E+01	1.6778E-05
Sb-124	9.6508E+00		7.5400E+00			
Sb-125	3.7700E+00	2.7317E-01	4.1000E-04	5.1431E-06		
Sb-124,125	2.5432E+00	1.3461E-01	2.2882E-02	5.1826E-04		
I-129			1.9600E-01	1.9600E-01	5.6210E+00	5.6210E+00
I-131	2.6392E+03		3.0171E+02		2.5180E+03	
Xe-131m					1.0128E+04	
Xe-133					4.7126E+05	
I-133					1.0210E-02	
Cs-134	1.2917E+01	3.9068E-01	5.4680E-01	4.9404E-03	4.5909E-02	2.2459E-02
Xe-135					1.6011E+05	
Cs-137	1.3402E+03	7.2273E+02	6.0736E+02	3.4836E+02	3.5074E+00	2.2594E+00
Cs-134,137			7.0710E-03	5.6707E-03		
Ba,La-140	6.2642E+01		2.2175E+02			
Ce-141	2.6954E+00				4.6042E-02	3.2549E-07
Ce-144	4.4933E+01	1.6108E-01			7.6681E-01	1.5023E-02
Ce-141,144	3.0680E+02	6.8995E-03	3.5043E+02	7.4315E-06	3.3978E+00	
Pm-147	1.7052E+02	2.1182E+00	1.0982E+02	3.4128E-01		
Os-185					1.7700E-03	9.1772E-06
Th-232	1.6670E-01	1.6670E-01				
U-Nat	1.6762E+01	1.6762E+01	2.4689E+01	2.4689E+01	8.4905E-01	8.4905E-01
Pu-238	3.9626E+00	3.4610E+00	1.0274E-01	9.0132E-02	6.9758E-01	6.0329E-01
Pu-239	7.9142E+00	7.9087E+00			3.0219E+00	3.0191E+00
Np-239	1.0248E+01		1.4294E+03			
Am-241	2.8969E-01	2.8638E-01			5.2890E-03	5.2244E-03
Cm-242					2.3400E-03	
Cm-244	4.1980E-01	2.9097E-01	3.8572E-01	1.9700E-01	8.9446E-02	3.9976E-02
Un-ID-Alpha	5.5482E+00	5.5482E+00	5.0690E-01	5.0690E-01	7.6158E-02	7.6158E-02
Un-ID-B+G	1.7372E+02	1.7372E+02	4.5079E+01	4.5079E+01	4.5438E+01	4.5438E+01
LIQUID TO SEEPAGE BASINS			1.2612E+06	5.7853E+05		
LIQUID TO STREAMS			1.5240E+06	6.0732E+05		
ATMOSPHERIC			4.1982E+07	1.5412E+07		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1954

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.2300E+08		1.1374E+10			
H-3			3.6600E+02	3.5581E+02		
Ar-41					5.0000E+04	
Co-60			6.0000E-02	5.6182E-02		
Kr-85m					4.0000E+01	
Kr-88					4.0000E+01	
Sr-90			3.9000E-02	3.8530E-02		
Ru-103,106			4.5000E-02	3.1908E-02		
Xe-133					6.0000E+01	
Xe-135					8.0000E+01	
Cs-137			1.8000E-01	1.7794E-01		
Pm-147			6.0000E-02	5.2575E-02		
Un-ID-Alpha	2.8000E-04	2.8000E-04	2.4000E-03	2.4000E-03		
Un-ID-B+G	7.3070E-02	7.3070E-02	8.0000E-03	8.0000E-03		
LIQUID TO SEEPAGE BASINS			7.3350E-02	7.3350E-02		
LIQUID TO STREAMS			3.6639E+02	3.5618E+02		
ATMOSPHERIC			5.0220E+04			

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1955

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.4185E+08		2.3749E+10		3.5474E+10	
H-3			5.8700E+03	5.7066E+03	3.6050E+04	3.5047E+04
C-14					8.3000E+01	8.2995E+01
Ar-41					1.4000E+05	
Co-60			2.2400E-01	2.0975E-01		
Kr-85m					1.0000E+02	
Kr-88					1.0000E+02	
Sr-90	6.7000E-01	6.6193E-01	1.4560E-01	1.4385E-01		
Sr-89,90					4.2580E-01	4.2067E-01
Ru-106	1.3956E+01	9.8958E+00				
Ru-103,106			1.6800E-01	1.1912E-01	2.5067E+01	1.7774E+01
I-129					2.1150E-01	2.1150E-01
I-131	4.8900E+02	7.1014E-05			6.9200E+01	1.0049E-05
Xe-133					2.0000E+02	
Xe-135					3.0000E+02	
Cs-137	7.0200E-01	6.9398E-01	6.7200E-01	6.6433E-01	1.3470E+00	1.3316E+00
Pm-147	1.3800E+00	1.2092E+00	2.2400E-01	1.9628E-01		
U-Nat	1.6590E-01	1.6590E-01	7.0000E-02	7.0000E-02	3.0600E-01	3.0600E-01
Pu-239	1.1410E-01	1.1410E-01			2.6620E+00	2.6620E+00
Un-ID-Alpha	2.4700E-02	2.4700E-02	5.7600E-02	5.7600E-02		
Un-ID-B+G	1.8060E-01	1.8060E-01	1.2900E-01	1.2900E-01	3.3900E+01	3.3900E+01
LIQUID TO SEEPAGE BASINS			5.0619E+02	1.2946E+01		
LIQUID TO STREAMS			5.8717E+03	5.7082E+03		
ATMOSPHERIC			1.7697E+05	3.5186E+04		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1956

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.3762E+08		1.9841E+10		3.5473E+10	
H-3			9.3900E+03	9.1287E+03	4.6860E+05	4.5556E+05
C-14					8.4000E+01	8.3995E+01
Ar-41					2.5000E+05	
Co-60			6.0600E-01	5.6744E-01		
Kr-85m					3.0000E+02	
Kr-88					2.0000E+02	
Sr-90	1.0040E+01	9.9190E+00	3.9390E-01	3.8915E-01		
Sr-89,90					5.6800E-02	5.6116E-02
Ru-106	2.3240E+01	1.6479E+01				
Ru-103,106			4.5450E-01	3.2227E-01	6.3400E+00	4.4955E+00
I-129					2.1150E-01	2.1150E-01
I-131	9.3900E+02	1.3636E-04			1.5760E+03	2.2887E-04
Xe-133					4.0000E+02	
Xe-135					5.0000E+02	
Cs-137	1.6120E+00	1.5936E+00	1.8180E+00	1.7972E+00	2.3946E-01	2.3673E-01
Pm-147	3.5600E+00	3.1195E+00	6.0600E-01	5.3101E-01		
U-Nat	7.1990E-01	7.1990E-01	5.2000E-01	5.2000E-01	1.1900E-01	1.1900E-01
Pu-239	5.6010E-01	5.6009E-01			3.1000E-02	3.1000E-02
Un-ID-Alpha	7.8710E-02	7.8710E-02				
Un-ID-B+G	1.8170E-01	1.8170E-01	1.6380E+00	1.638E+00	8.4300E+00	8.4300E+00
LIQUID TO SEEPAGE BASINS			9.7899E+02	3.2651E+01		
LIQUID TO STREAMS			9.3961E+03	9.1345E+03		
ATMOSPHERIC			7.2168E+05	4.5566E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1957

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.9804E+08		1.7131E+10		3.5474E+10	
H-3	9.1800E+03	8.9245E+03	1.5025E+04	1.4607E+04	1.2007E+06	1.1673E+06
C-14					8.4000E+01	8.3995E+01
Ar-41					2.9000E+05	
Co-60	2.3640E+00	2.2136E+00	1.6496E+00	1.5353E+00		
Kr-85m					7.0000E+02	
Kr-88					6.0000E+02	
Sr-90	1.8484E+02	1.8261E+02	1.0922E+01	1.0791E+01		
Sr-89-90					2.1200E-02	2.0945E-02
Ru-106	4.8850E+01	3.4638E+01				
Ru-103-106	1.7088E+01	1.2117E+01	2.1500E+00	1.5245E+00	1.2389E+00	8.7847E-01
I-129					2.1150E-01	2.1150E-01
I-131	8.7000E+02	1.2634E-04	6.5000E+01	9.4394E-06	2.9200E+02	4.2405E-05
Xe-133					1.0000E+02	
Xe-135					1.0000E+02	
Cs-137	7.9031E+02	7.8129E+02	4.9314E+01	4.8751E+01	6.2690E-02	6.1974E-02
Pm-147	4.8140E+00	4.2183E+00	1.6396E+00	1.4367E+00		
U-Nat	7.7760E-01	7.7760E-01	1.0500E-01	1.0500E-01	2.2500E-03	2.2500E-03
Pu-239	4.1240E-01	4.1239E-01			4.2750E-02	4.2749E-02
Un-ID-Alpha	3.5620E-02	3.5620E-02	4.0000E-03	4.0000E-03		
Un-ID-B+G	2.5270E-01	2.5270E-01	3.0700E-01	3.0700E-01	1.6700E+00	1.6700E+00
LIQUID TO SEEPAGE BASINS			1.1100E+04	9.9431E+03		
LIQUID TO STREAMS			1.5156E+04	1.4671E+04		
ATMOSPHERIC			1.4926E+06	1.1674E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1958

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.3428E+08		2.4837E+10		4.2569E+10	
H-3	6.4360E+03	6.2569E+03	2.4442E+04	2.3762E+04	2.3637E+06	2.2979E+06
C-14					8.4000E+01	8.3995E+01
Ar-41					3.4000E+05	
Co-60	9.0800E-01	8.5022E-01	1.0740E+00	1.0057E+00		
Kr-85m					1.8000E+03	
Kr-88					1.7000E+03	
Sr-90	1.5062E+01	1.4880E+01	6.9783E-01	6.8942E-01		
Sr-89,90					2.3600E-02	2.3316E-02
Ru-106	2.8200E+01	1.9996E+01				
Ru-103,106	6.8100E-01	4.8208E-01	8.0550E-01	5.7116E-01	6.1660E-01	4.3721E-01
I-129					2.1150E-01	2.1150E-01
I-131	2.4800E+01	3.6015E-06			1.9930E+01	2.8943E-06
Xe-133					2.6000E+03	
Xe-135					4.0000E+03	
Cs-137	1.0042E+02	9.9275E+01	3.2220E+00	3.1852E+00	2.5900E-02	2.5604E-02
Pm-147	4.0820E+00	3.5769E+00	1.0740E+00	9.4110E-01		
U-Nat	5.1200E-01	5.1200E-01	3.6000E-02	3.6000E-02	1.6000E-03	1.6000E-03
Pu-239	4.9000E-01	4.8999E-01			2.0900E-02	2.0900E-02
Un-ID-Alpha	4.3580E-02	4.3580E-02	1.1000E-02	1.1000E-02		
Un-ID-B+G	5.2930E-02	5.2930E-02	3.8500E-01	3.8500E-01	1.0000E-02	1.0000E-02
LIQUID TO SEEPAGE BASINS			6.6112E+03	6.3970E+03		
LIQUID TO STREAMS			2.4449E+04	2.3769E+04		
ATMOSPHERIC			2.7139E+06	2.2979E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1959

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.6004E+08		2.6345E+10		4.1602E+10	
H-3	1.4000E+04	1.3610E+04	4.1952E+04	4.0784E+04	1.0450E+06	1.0159E+06
C-14					1.3800E+02	1.3799E+02
Ar-41					4.4000E+05	
Co-60	4.7400E-01	4.4384E-01	2.6460E+00	2.4776E+00		
Kr-85m					3.4000E+03	
Kr-88					3.2000E+03	
Sr-90	2.0122E+01	1.9880E+01	1.7199E+00	1.6992E+00		
Sr-89,90					3.1400E-01	3.1022E-01
Ru-106	1.3730E+02	9.7355E+01				
Ru-103,06	3.5550E-01	2.5207E-01	1.9845E+00	1.4071E+00	9.9880E+00	7.0822E+00
I-129					2.1150E-01	2.1150E-01
I-131	6.0100E+01	8.7278E-06			1.6210E+02	2.3526E-05
Xe-133					5.0000E+03	
Xe-135					6.5000E+03	
Cs-137	3.3466E+01	3.3084E+01	7.9380E+00	7.8474E+00	1.3800E-01	1.3642E-01
Pm-147	1.4054E+01	1.2315E+01	2.6460E+00	2.3186E+00		
U-Nat	6.9600E-01	6.9600E-01	3.9000E-02	3.9000E-02	7.1500E-03	7.1500E-03
Pu-239	5.3200E-01	5.3199E-01			2.3850E-02	2.3850E-02
Un-ID-Alpha	1.9120E-02	1.9120E-02	1.3000E-02	1.3000E-02		
Un-ID-B+G	4.9760E-02	4.9760E-02	9.4500E-01	9.4500E-01	4.9000E-01	4.9000E-01
LIQUID TO SEEPAGE BASINS			1.4267E+04	1.3775E+04		
LIQUID TO STREAMS			4.1970E+04	4.0801E+04		
ATMOSPHERIC			1.5034E+06	1.0161E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1960

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	4.0558E+08		3.5772E+10		4.7782E+10	
H-3	1.7743E+04	1.7249E+04	4.8529E+04	4.7178E+04	9.5081E+05	9.2435E+05
C-14					1.3800E+02	1.3799E+02
Ar-41					4.0000E+05	
Cr-51			1.1450E+01	1.1872E-01		
Co-60	2.6620E-01	2.4926E-01	7.7900E+00	7.2943E+00		
Zn-65			4.2900E+00	2.5556E+00		
Kr-85m					4.6000E+03	
Kr-88					4.8000E+03	
Sr-90	5.1941E+00	5.1316E+00	1.8420E+01	1.8198E+01		
Sr-89,90					5.3000E-02	5.2362E-02
Zr, Nb-95	1.8440E+02	2.5524E+01	7.4300E+00	1.0284E+00	2.1200E-01	2.9344E-02
Mo-99			1.0310E+01			
Ru-106	1.5700E+02	1.1132E+02				
Ru-103,106	1.9993E-01	1.4176E-01	9.0400E+00	6.4100E+00	8.8540E+00	6.2781E+00
I-129					2.1150E-01	2.1150E-01
I-131	5.4160E+00	7.4063E-07	2.4340E+01	3.5347E-06	7.3030E+00	1.0579E-06
Xe-131m					6.9000E+02	1.5712E-02
Xe-133					7.4100E+03	
Xe-135					9.6000E+03	
Cs-137	8.7986E+00	8.6981E+00	3.4803E+01	3.4406E+01	1.2400E-01	1.2258E-01
Ba, La-140			2.0760E+01	1.0416E-03		
Ce-141,144	8.3200E+01	5.3303E+01	4.0730E+01	2.6094E+01	2.4300E-01	1.5568E-01
Pm-147	2.1298E+01	1.8663E+01	7.7900E+00	6.8260E+00		
U-Nat	8.3550E-01	8.3550E-01	1.1000E-01	1.1000E-01	1.9980E-02	1.9980E-02
Pu-239	2.5950E-01	2.5950E-01			7.1020E-02	7.1019E-02
Np-239			5.5540E+01			
Un-ID-Alpha	3.0000E-02	3.0000E-02	1.6800E-02	1.6800E-02		
Un-ID-B+G	9.2000E-02	9.2000E-02	8.3000E+00	8.3000E+00	8.3720E-02	8.3720E-02
LIQUID TO SEEPAGE BASINS			1.8210E+04	1.7473E+04		
LIQUID TO STREAMS			4.8790E+04	4.7290E+04		
ATMOSPHERIC			1.3781E+06	9.2449E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1961

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.0637E+08		2.7197E+10		4.7782E+10	
H-3	3.3878E+04	3.2935E+04	5.5840E+04	5.4286E+04	8.8558E+05	8.6093E+05
C-14					1.3800E+02	1.3799E+02
S-35			6.6000E+01	1.5520E+01		
Ar-41					4.2000E+05	
Cr-51			6.1500E+01	6.3765E-01		
Co-60	1.5884E-01	1.4873E-01	6.3300E+00	5.9272E+00		
Zn-65			2.0580E+01	1.2260E+01		
Kr-85m					2.4000E+03	
Kr-88					2.3000E+03	
Sr-89			1.1370E+01	9.2958E-01		
Sr-90	5.6132E+00	5.5456E+00	4.2400E+00	4.1889E+00		
Sr-89,90					4.1000E-02	4.0506E-02
Zr,Nb-95	6.3900E+01	8.8447E+00	6.9800E+00	9.6614E-01	2.9900E-01	4.1386E-02
Mo-99			9.3100E+00			
Ru-106	5.3200E+01	3.7723E+01				
Ru-103,106	.1913E-01	8.4472E-02	7.0100E+00	4.9706E+00	3.9130E+00	2.7746E+00
I-129					2.1150E-01	2.1150E-01
I-131	1.5758E+02	2.2843E-05	2.8770E+01	4.1780E-06	1.6193E+02	2.3381E-05
Xe-131m					5.0000E+02	1.1386E-02
Xe-133					4.0200E+03	
Xe-135					4.7000E+03	
Cs-137	2.1666E+01	2.1419E+01	1.8950E+01	1.8734E+01	4.8000E-02	4.7452E-02
Ba, LA-140			1.8050E+01	9.0565E-04		
Ce-141,144	3.9670E+01	2.5415E+01	3.5820E+01	2.2949E+01	2.8400E-01	1.8195E-01
Pm-147	6.5678E+00	5.7551E+00	6.3300E+00	5.5467E+00		
U-Nat	3.6590E-01	3.6590E-01	1.1000E-01	1.1000E-01	1.0200E-02	1.0200E-02
Pu-239	2.8210E-01	2.8210E-01			1.1800E-02	1.1800E-02
Np-239			1.3084E+02			
Un-ID-Alpha	2.9000E-02	2.9000E-02	1.6800E-02	1.6800E-02	2.2000E-04	2.2000E-04
Un-ID-B+G	7.0000E-02	7.0000E-02	3.2300E+00	3.2300E+00	9.8170E-02	9.8170E-02
LIQUID TO SEEPAGE BASINS			3.4227E+04	3.3041E+04		
LIQUID TO STREAMS			5.6275E+04	5.4382E+04		
ATMOSPHERIC			1.3198E+06	8.6108E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1962
 Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	5.8557E+08		2.6835E+10		4.7782E+10	
H-3	3.4798E+04	3.3830E+04	4.8382E+04	4.7035E+04	1.1115E+06	1.0806E+06
C-14					1.3800E+02	1.3799E+02
S-35			5.1165E+02	1.2032E+02		
Ar-41					4.3000E+05	
Cr-51			2.1128E+02	2.1906E+00		
Co-60	8.1460E-02	7.6276E-02	1.2690E+01	1.1882E+01		
Zn-65			3.1920E+01	1.9015E+01		
Kr-85m					1.8000E+03	
Kr-88					1.7000E+03	
Sr-89			3.4280E+01	2.8026E+00		
Sr-90	3.8729E+00	3.8263E+00	6.5600E+00	6.4810E+00		
Sr-89,90					3.3000E-02	3.2602E-02
Zr,Nb-95	2.9480E+01	4.0805E+00	1.7150E+01	2.3738E+00	1.7420E-01	2.4112E-02
Mo-99			3.2600E+00			
Ru-106	1.1638E+02	8.2522E+01				
Ru-103,106	6.1095E-02	4.3321E-02	6.9000E+00	4.8926E+00	2.7750E+00	1.9677E+00
I-129					2.1150E-01	2.1150E-01
I-131	7.1800E+00	1.0035E-06	8.7100E+01	1.2649E-05	1.6664E+01	2.4033E-06
Xe-131m					2.9000E+02	6.6037E-03
Xe-133					2.6000E+03	
Xe-135					3.4000E+03	
Cs-137	6.5044E+01	6.4302E+01	3.7590E+01	3.7161E+01	3.7000E-02	3.6577E-02
Ba,La-140			6.7910E+01	3.4074E-03		
Ce-141,144	1.2110E+01	7.7584E+00	2.2620E+01	1.4492E+01	2.1250E-01	1.3614E-01
Pm-147	1.4184E+01	1.2429E+01	1.2690E+01	1.1120E+01		
U-Nat	6.5820E-01	6.5820E-01	5.3000E-01	5.3000E-01	8.8600E-03	8.8600E-03
Pu-239	5.9880E-01	5.9879E-01			1.1140E-02	1.1140E-02
Np-239			9.0900E+01			
Un-ID-Alpha	4.0000E-02	4.0000E-02	1.1500E-02	1.1500E-02	3.0000E-04	3.0000E-04
Un-ID-B+G	1.7400E+00	1.7400E+00	9.5300E-01	9.5300E-01	3.1300E-01	3.1300E-01
LIQUID TO SEEPAGE BASINS			3.5049E+04	3.4008E+04		
LIQUID TO STREAMS			4.9538E+04	4.7270E+04		
ATMOSPHERIC			1.5514E+06	1.0807E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1963

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	5.5073E+08		2.7756E+10		4.2609E+10	
H-3	2.9206E+04	2.8393E+04	7.7394E+04	7.5240E+04	1.1286E+06	1.0972E+06
C-14					1.3800E+02	1.3799E+02
S-35			1.5558E+02	3.6586E+01		
Ar-41					4.5000E+05	
Cr-51			1.2804E+03	1.3275E+01		
Co-60	7.5400E-01	7.0602E-01	5.0700E+00	4.7474E+00		
Zn-65			3.3400E+01	1.9897E+01		
Kr-85m					6.8000E+03	
Kr-88					6.3000E+03	
Sr-89	5.6900E+00	4.6520E-01	3.3710E+01	2.7560E+00		
Sr-90	1.0480E+01	1.0354E+01	1.0510E+01	1.0383E+01		
Sr-89,90					3.5400E-02	3.4974E-02
Zr-Nb-95	6.8760E+01	9.5174E+00	3.2130E+01	4.4473E+00	1.5010E-01	2.0776E-02
Mo-99	1.2252E+02	8.6875E+01				
Ru-106	5.6550E-01	4.0098E-01	1.2530E+01	8.8847E+00	3.8890E+00	2.7576E+00
Ru-103,106	1.0000E-01	8.8241E-02				
I-129					2.1150E-01	2.1150E-01
I-131	2.9100E+00	4.2260E-07	4.6450E+01	6.7456E-06	4.8210E+00	6.9881E-07
Xe-131m					1.4000E+02	3.1880E-03
Xe-133					8.4000E+03	
Xe-135					1.2000E+04	
Cs-137	2.5692E+01	2.5399E+01	9.7360E+01	9.6248E+01	2.5200E-02	2.4912E-02
Ba-La-140			5.2080E+01	2.6131E-03		
Ce-141,144	3.0610E+01	1.9611E+01	5.0310E+01	3.2232E+01	2.3930E-01	1.5331E-01
Pm-147	1.4618E+01	1.2809E+01	5.0700E+00	4.4426E+00		
U-Nat	7.0532E-01	7.0532E-01	1.9530E+00	1.9530E+00	3.1500E-02	3.1500E-02
Pu-239	3.7338E-01	3.7337E-01			3.5000E-03	3.4999E-03
Np-239			7.8418E+02			
Un-ID-Alpha	2.8700E-02	2.8700E-02	1.6000E-02	1.6000E-02	2.4200E-04	2.4200E-04
Un-ID-B+G	2.8470E-01	2.8470E-01	1.4000E+00	1.4000E+00	2.2260E-01	2.2260E-01
LIQUID TO SEEPAGE BASINS			2.9490E+04	2.8561E+04		
LIQUID TO STREAMS			7.9996E+04	7.5477E+04		
ATMOSPHERIC			1.6124E+06	1.0974E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1964

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	9.1122E+08		2.8488E+10		4.2609E+10	
H-3	4.4569E+04	4.3329E+04	8.5383E+04	8.3007E+04	1.5229E+06	1.4805E+06
C-14					1.1000E+02	1.0999E+02
P-32			3.0700E+00	4.3580E-04		
S-35			9.1290E+01	2.1467E+01		
Ar-41					3.7000E+05	
Cr-51	6.0860E+01	6.3102E-01	1.0853E+03	1.1253E+01		
Mn-54			6.2000E-01	4.1361E-01		
Co-60	2.7000E+00	2.5282E+00	3.1100E+00	2.9121E+00		
Zn-65	4.0000E-02	2.3828E-02	1.9930E+01	1.1873E+01		
Kr-85m					9.0000E+02	
Kr-88					5.0000E+02	
Sr-89	1.3100E+00	1.0710E-01	6.1990E+01	5.0681E+00		
Sr-90	4.5400E+00	4.4853E+00	9.5700E+00	9.4547E+00		
Sr-89,90					3.9500E-02	3.9024E-02
Zr,Nb-95	1.5679E+02	2.1702E+01	1.9720E+01	2.7295E+00	2.2260E-01	3.0811E-02
Ru-106	2.3370E+02	1.6571E+02				
Ru-103,106	5.0200E+00	3.5595E+00	7.8600E+00	5.5733E+00	2.6150E+00	1.8542E+00
Sb-124			7.5000E+00	9.1567E-01		
Sb-125	1.0000E-01	8.8241E-02				
I-129					2.1150E-01	2.1150E-01
I-131	1.2450E+01	1.8080E-06	8.7000E+00	1.1284E-06	1.1608E+01	1.6857E-06
Xe-131m					1.7000E+02	3.8711E-03
Xe-133					2.0000E+03	
Xe-135					8.0000E+02	
Cs-137	2.1320E+01	2.1076E+01	1.0854E+02	1.0730E+02	6.6700E-02	6.5938E-02
Ba,La-140	4.0000E-01	2.0070E-05	3.6300E+01	1.8213E-03		
Ce-141,144	3.0370E+01	1.9457E+01	8.7390E+01	5.5988E+01	3.2020E-01	2.0514E-01
Pm-147	3.3680E+01	2.9512E+01	3.1100E+00	2.7251E+00		
U-Nat	1.8254E+00	1.8254E+00	4.9600E-01	4.9600E-01	5.5540E-02	5.5540E-02
Pu-239	1.6326E-01	1.6326E-01			5.5600E-03	5.5599E-03
Np-239	1.1000E-01		1.8115E+02			
Cm-244					3.1700E-02	3.1099E-02
Un-ID-Alpha	3.2100E-02	3.2100E-02	1.5000E-02	1.5000E-02		
Un-ID-B+G	3.2510E-01	3.2510E-01	1.5850E+00	1.5850E+00	6.1500E-02	6.1500E-02
LIQUID TO SEEPAGE BASINS		4.5135E+04	4.3600E+04			
LIQUID TO STREAMS		8.7120E+04	8.3246E+04			
ATMOSPHERIC		1.8974E+06	1.4807E+06			

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1965

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.2029E+09		2.7965E+10		3.3279E+10	
H-3	4.5263E+04	4.4003E+04	1.0406E+05	1.0116E+05	7.4405E+05	7.2334E+05
C-14					1.1000E+02	1.0999E+02
P-32	3.7000E+01	5.2523E-03	1.3610E+01	1.9320E-03		
S-35			8.5830E+01	2.0184E+01		
Ar-41					2.7000E+05	
Cr-51	9.9728E+01	1.0340E+00	7.8340E+02	8.1225E+00		
Co-60	1.6440E+00	1.5394E+00	1.0800E+01	1.0113E+01		
Zn-65	3.3400E-01	1.9897E-01	8.9400E+00	5.3257E+00		
Kr-85m					2.0000E+03	
Kr-88					1.2000E+03	
Sr-89	1.2400E+00	1.0138E-01	6.8800E+00	5.6249E-01		
Sr-90	6.7320E+00	6.6509E+00	4.9700E+00	4.9101E+00		
Sr-89,90	4.6300E-02	4.5742E-02			1.9500E-02	1.9265E-02
Y-91			2.7740E+01	3.1879E+00		
Zr, Nb-95	3.9671E+01	5.4911E+00	6.1300E+00	8.4848E-01	2.1620E-01	2.9925E-02
Ru-106	1.0348E+02	7.3375E+01				
Ru-103,106	3.0151E+01	2.1379E+01	3.8400E+00	2.7228E+00	2.7600E+00	1.9570E+00
I-129					2.1150E-01	2.1150E-01
I-131	8.5620E+00	1.2431E-06	5.3900E+00	7.1594E-07	1.8066E+01	2.6236E-06
Xe-131m					6.1000E+02	1.3891E-02
Xe-133					4.2200E+03	
Cs-134	2.6400E+00	2.2315E+00				
Xe-135					1.8000E+03	
Cs-137	2.1795E+01	2.1546E+01	3.3850E+01	3.3463E+01	1.7700E-02	1.7498E-02
Ba, La-140			1.0140E+01	5.0877E-04		
Ce-141,144	4.3100E+01	2.7613E+01	3.1278E+01	2.0039E+01	2.4080E-01	1.5427E-01
Pm-147	1.3130E+01	1.1505E+01	1.2080E+01	1.0585E+01		
U-Nat	6.6050E-01	6.6050E-01	9.0000E-01	9.0000E-01	5.1800E-02	5.1800E-02
Pu-239	6.0620E-01	6.0619E-01			1.6500E-02	1.6500E-02
Np-239	1.1000E-01		7.4340E+01			
Un-ID-Alpha	3.9000E-02	3.9000E-02	1.1000E-02	1.1000E-02	5.1835E-02	5.1835E-02
Un-ID-B+G	1.8820E-01	1.8820E-01	3.6260E+00	3.6260E+00	9.3400E-02	9.3400E-02
LIQUID TO SEEPAGE BASINS			4.5674E+04	4.4177E+04		
LIQUID TO STREAMS			1.0518E+05	1.0129E+05		
ATMOSPHERIC			1.0240E+06	7.2345E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1966

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.0983E+09		2.7031E+10		3.3266E+10	
H-3	8.3653E+04	8.1325E+04	8.1865E+04	7.9587E+04	6.7460E+05	6.5583E+05
C-14					1.1000E+02	1.0999E+02
P-32	1.1400E+02	1.6183E-02	1.0220E+01	1.4508E-03		
S-35			1.2098E+02	2.8449E+01		
Ar-41					2.8000E+05	
Cr-51	7.6420E+00	7.9235E-02	6.2502E+02	6.4804E+00		
Co-60	2.7300E-01	2.5563E-01	5.0600E+00	4.7380E+00		
Zn-65	1.0000E-02	5.9571E-03	7.5200E+00	4.4797E+00		
Kr-85m					2.4000E+03	
Kr-88					1.5000E+03	
Sr-89	6.6000E-01	5.3960E-02	6.0900E+00	4.9790E-01		
Sr-90	1.7900E+00	1.7684E+00	4.3200E+00	4.2680E+00		
Sr-89,90	7.1000E-03	7.0145E-03			2.1200E-02	2.0945E-02
Y-91			1.7300E+01	1.9882E+00		
Zr,Nb-95	3.8470E+01	5.3248E+00	7.9400E+00	1.0990E+00	2.0560E-01	2.8458E-02
Ru-106	9.5120E+01	6.7447E+01				
Ru-103,106	2.0700E+00	1.4678E+00	1.2700E+00	9.0052E-01	4.5900E+00	3.2546E+00
I-129					2.1150E-01	2.1150E-01
I-131	1.7070E+01	2.4789E-06	3.0200E+00	3.9646E-07	3.1618E+01	4.5890E-06
Xe-131m					2.6000E+02	5.9206E-03
Xe-133					4.4300E+04	1.4612E-06
Cs-134	8.5000E-01	7.1848E-01				
Xe-135					2.1000E+03	
Cs-137	1.6876E+01	1.6683E+01	3.6680E+01	3.6261E+01	4.8200E-02	4.7650E-02
Ba,La-140	1.4000E-01	7.0244E-06	1.5600E+00	7.8272E-05		
Ce-141,144	2.8840E+00	1.8477E+00	1.9600E+01	1.2557E+01	1.7470E-01	1.1192E-01
Pm-147	4.9000E+00	4.2936E+00	8.4600E+00	7.4131E+00		
U-Nat	5.1260E-01	5.1260E-01	4.4390E+00	4.4390E+00	2.0595E-02	2.0595E-02
Pu-239	6.5240E-01	6.5239E-01			1.0065E-02	1.0065E-02
Np-239			2.7880E+01			
Un-ID-Alpha	1.7000E-02	1.7000E-02	1.4100E-02	1.4100E-02	2.0595E-02	2.0595E-02
Un-ID-B+G	4.4048E+01	4.4048E+01	3.0370E+00	3.0370E+00	1.2900E-02	1.2900E-02
LIQUID TO SEEPAGE BASINS			8.4001E+04	8.1470E+04		
LIQUID TO STREAMS			8.2775E+04	7.9703E+04		
ATMOSPHERIC			1.0053E+06	6.5594E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1967

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	9.5505E+08		5.5729E+10		3.3277E+10	
H-3	6.0080E+04	5.8408E+04	6.9617E+04	6.7680E+04	6.8867E+05	6.6950E+05
C-14					1.1000E+02	1.0999E+02
P-32	9.0000E+00	1.2776E-03	4.1300E+00	5.8627E-04		
S-35			1.5328E+02	3.6045E+01		
Ar-41					3.2000E+05	
Cr-51	2.5200E+00	2.6128E-02	2.4204E+02	2.5095E+00		
Co-60	2.4500E-01	2.2941E-01	1.6900E+00	1.5825E+00		
Zn-65	1.2000E-01	7.1485E-02	7.3200E+00	4.3606E+00		
Kr-85m					3.3200E+04	
Kr-88					2.0400E+04	
Sr-89	7.3000E-01	5.9683E-02	1.3000E+01	1.0628E+00		
Sr-90	2.1180E+00	2.0925E+00	4.5800E+00	4.5248E+00		
Sr-89,90	1.8100E-02	1.7882E-02			1.4100E-02	1.3930E-02
Y-91			1.8600E+01	2.1376E+00		
Zr,Nb-95	3.7941E+01	5.2516E+00	1.3750E+01	1.9032E+00	2.1010E-01	2.9081E-02
Ru-106	6.0330E+01	4.2778E+01				
Ru-103,106	1.0100E+00	7.1616E-01	1.9400E+00	1.3756E+00	4.1840E-01	2.9668E-01
I-129					2.1150E-01	2.1150E-01
I-131	5.7800E+00	7.8855E-07	1.3620E+01	1.9663E-06	2.0100E+01	2.8940E-06
Xe-131m					1.8900E+03	4.3038E-02
Xe-133					1.4800E+05	4.8816E-06
Cs-134	1.4100E+00	1.1918E+00				
Xe-135					2.9600E+04	
Cs-137	2.1828E+01	2.1579E+01	7.8910E+01	7.8009E+01	1.8100E-02	1.7893E-02
Ba,La-140	6.7100E-01	3.3617E-05	4.2500E+00	2.1324E-04		
Ce-141,144	3.2900E+00	2.1078E+00	1.6880E+01	1.0814E+01	9.3100E-02	5.9646E-02
Pm-147	2.3900E+00	2.0942E+00	1.5930E+01	1.3959E+01		
U-Nat	1.9073E-01	1.9073E-01	6.4230E+00	6.4230E+00	1.9155E-02	1.9155E-02
Pu-238	1.4277E-01	1.4221E-01			2.6000E-04	2.5897E-04
Pu-239	7.6910E-01	7.6909E-01			1.0344E-02	1.0344E-02
Np-239	5.0000E-03		3.6440E+01			
Cm-244					3.0000E-02	2.9431E-02
Un-ID-Alpha	2.9400E-02	2.9400E-02	1.5700E-02	1.5700E-02	3.0000E-04	3.0000E-04
Un-ID-B+G	1.1611E+02	1.1611E+02	1.3997E+01	1.3997E+01	1.3613E-02	1.3613E-02
LIQUID TO SEEPAGE BASINS			6.0347E+04	5.8603E+04		
LIQUID TO STREAMS			7.0263E+04	6.7858E+04		
ATMOSPHERIC			1.2419E+06	6.6961E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1968

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.1710E+09		5.2493E+10		3.3045E+10	
H-3	6.9128E+04	6.7204E+04	6.1581E+04	5.9867E+04	7.6238E+05	7.4116E+05
C-14					8.7000E+01	8.6995E+01
P-32			2.4400E+00	3.4637E-04		
S-35	1.8531E+02	4.3577E+01	1.7144E+02	4.0315E+01		
Ar-41					2.2000E+05	
Cr-51	1.1756E+02	1.2189E+00	8.5840E+01	8.9002E-01		
Co-60	1.8840E+00	1.7641E+00	1.8400E+00	1.7229E+00	3.9300E-02	3.6799E-02
Zn-65	3.8200E+00	2.2756E+00	4.5100E+00	2.6867E+00		
Kr-85m					1.2600E+04	
Kr-88					8.1000E+03	
Sr-89	4.6000E-01	3.7608E-02	2.9040E+01	2.3742E+00		
Sr-90	3.9610E+00	3.9133E+00	5.6400E+00	5.5721E+00		
Sr-89-90	1.0700E-02	1.0571E-02	2.0000E-02	1.9759E-02	3.4000E-02	3.3590E-02
Y-91			3.0920E+01	3.5534E+00		
Zr,Nb-95	2.0934E+01	2.8976E+00	8.1100E+00	1.1225E+00	3.1090E-01	4.3033E-02
Ru-106	9.7590E+01	6.9198E+01				
Ru-103,106	2.0830E+00	1.4770E+00	1.8700E+00	1.3260E+00	2.0052E+01	1.4219E+01
I-129					2.1150E-01	2.1150E-01
I-131	4.1400E+00	5.3442E-07	9.4900E+00	1.2300E-06	2.2121E+01	3.1150E-06
Xe-131m					9.3000E+02	2.1177E-02
Xe-133					4.9200E+04	1.6228E-06
Xe-135					1.2400E+04	
Cs-137	2.9300E+01	2.8965E+01	4.3460E+01	4.2964E+01	4.0300E-02	3.9840E-02
Ba,La-140	3.2290E+01	1.6201E-03	8.9500E+00	4.4906E-04		
Ce-141,144	3.6750E+01	2.3544E+01	3.4640E+01	2.2193E+01	5.5030E-01	3.5256E-01
Pm-147	7.0800E+00	6.2039E+00	1.1480E+01	1.0059E+01		
Th-232	1.6670E-01	1.6670E-01				
U-Nat	5.6039E-01	5.6039E-01	4.2140E+00	4.2140E+00	2.6682E-02	2.6682E-02
Pu-238	5.1700E-01	5.1496E-01			1.0000E-03	9.9606E-04
Pu-239	3.9700E-01	3.9699E-01			5.6680E-03	5.6679E-03
Np-239	8.7600E+00		2.0230E+01			
Un-ID-Alpha	2.5870E-01	2.5870E-01	1.1900E-02	1.1900E-02	5.0000E-04	5.0000E-04
Un-ID-B+G	7.8580E-01	7.8580E-01	6.0900E-01	6.0900E-01	4.0990E-03	4.0990E-03
LIQUID TO SEEPAGE BASINS				6.9682E+04	6.7391E+04	
LIQUID TO STREAMS				6.2056E+04	6.0007E+04	
ATMOSPHERIC				1.0657E+06	7.4126E+05	

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1969

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.3014E+09		5.0097E+10		3.1645E+10	
H-3	4.7211E+04	4.5897E+04	6.4243E+04	6.2455E+04	4.9639E+05	4.8258E+05
C-14					8.7000E+01	8.6995E+01
P-32			7.3000E-01	1.0363E-04		
S-35	7.6532E+01	1.7997E+01	6.4350E+01	1.5132E+01		
Ar-41					1.4000E+05	
Cr-51	2.9582E+02	3.0672E+00	6.8520E+01	7.1044E-01		
Co-60	1.4000E+00	1.3109E+00	2.1000E-01	1.9664E-01	1.0990E-02	1.0291E-02
Zn-65	5.6000E-01	3.3360E-01	1.5400E+00	9.1739E-01		
Kr-85m					5.4000E+03	
Kr-88					3.5000E+03	
Sr-89	4.6121E+01	3.7707E+00	8.8240E+00	7.2143E-01		
Sr-90	6.8900E+00	6.8070E+00	3.7970E+00	3.7513E+00		
Sr-89,90	6.8000E-03	6.7181E-03	1.0000E-02	9.8795E-03	1.1540E-01	1.1401E-01
Y-91			8.7600E+00	1.0067E+00		
Zr,Nb-95	1.6738E+01	2.3168E+00	3.5800E+00	4.9553E-01	2.8500E-01	3.9448E-02
Ru-103					9.6156E+00	3.8535E-01
Ru-106	5.3150E+01	3.7687E+01			4.1128E+00	2.9163E+00
Ru-103,106	1.2910E+00	9.1541E-01	5.2000E-01	3.6872E-01		
I-129					2.1160E-01	2.1160E-01
I-131	1.5950E+01	2.3148E-06	5.0200E+00	5.9831E-07	3.5951E+01	5.2203E-06
Xe-131m					8.5000E+02	1.9356E-02
Xe-133					2.2000E+04	6.5309E-07
Xe-135					5.4000E+03	
Cs-137	3.1365E+01	3.1007E+01	2.1950E+01	2.1699E+01	8.5300E-02	8.4326E-02
Ba,La-140	1.7791E+01	8.9261E-04	1.3000E+00	6.5227E-05		
Ce-141,144	1.2651E+01	8.1050E+00	5.4500E+00	3.4916E+00	8.1110E-01	5.1964E-01
Pm-147	6.5600E+00	5.7482E+00	1.4560E+01	1.2758E+01		
U-Nat	1.1074E+00	1.1074E+00	1.2620E+00	1.2620E+00	6.8670E-02	6.8670E-02
Pu-238	1.0939E+00	1.0896E+00			5.5850E-01	5.5630E-01
Pu-239	4.9043E-01	4.9042E-01			6.0345E-02	6.0344E-02
Np-239	1.0200E+00		2.5700E+01			
Cm-244			3.0000E-02	2.9431E-02	2.1130E-02	2.0730E-02
Un-ID-Alpha	9.4400E-01	9.4400E-01	1.0600E-02	1.0600E-02	4.6000E-04	4.6000E-04
Un-ID-B+G	1.3960E+00	1.3960E+00	4.0500E-01	4.0500E-01	1.1435E-02	1.1435E-02
LIQUID TO SEEPAGE BASINS			4.7800E+04	4.6021E+04		
LIQUID TO STREAMS			6.4479E+04	6.2518E+04		
ATMOSPHERIC			6.7368E+05	4.8267E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1970

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	1.0803E+09		5.4891E+10		3.1311E+10	
H-3	5.7831E+04	5.6222E+04	3.6822E+04	3.5797E+04	5.1315E+05	4.9887E+05
C-14					8.8000E+01	8.7995E+01
P-32			7.7000E-01	1.0931E-04		
S-35	1.8041E+01	4.2425E+00	2.5670E+01	6.0365E+00		
Ar-41					1.1000E+05	
Cr-51	8.5500E+00	8.8649E-02	1.5910E+01	1.6496E-01		
Co-60	4.9300E-01	4.6163E-01	1.7200E-01	1.6105E-01	2.7500E-03	2.5750E-03
Zn-65			5.1000E-01	3.0381E-01		
Kr-85m					2.4000E+03	
Kr-88					1.6000E+03	
Sr-89	3.8831E+01	3.1747E+00	8.3200E+00	6.8022E-01		
Sr-90	4.2900E+00	4.2383E+00	3.4380E+00	3.3966E+00		
Sr-89,90	8.4300E-03	8.3284E-03	8.0000E-03	7.9036E-03	5.6000E-02	5.5325E-02
Y-91			9.7800E+00	1.1239E+00		
Zr, Nb-95	3.2054E+01	4.4367E+00	2.8080E+00	3.8867E-01	2.7400E-01	3.7926E-02
Ru-106	5.1340E+01	3.6404E+01			6.7820E-01	4.8089E-01
Ru-103,106	1.6910E+00	1.1990E+00	6.1000E-02	4.3253E-02		
Sb-124	1.6000E+00	1.9534E-01				
I-129					2.1150E-01	2.1150E-01
I-131	9.2200E+00	1.3389E-06	2.1700E+00	2.9335E-07	3.4367E+01	4.9782E-06
Xe-131m					1.0000E+03	2.2771E-02
Xe-133					1.8000E+04	5.3434E-07
Xe-135					2.6000E+03	
Cs-137	2.3490E+01	2.3222E+01	2.1261E+01	2.1018E+01	4.1500E-02	4.1026E-02
Ba, La-140	1.1340E+01	5.6898E-04	3.2000E-01	1.6056E-05		
Ce-141,144	1.0942E+01	7.0101E+00	2.7160E+00	1.7400E+00	2.2880E-01	1.4658E-01
Pm-147	3.5900E+00	3.1457E+00	4.5000E+00	3.9431E+00		
U-Nat	1.4100E+00	1.4100E+00	6.8200E-01	6.8200E-01	1.6640E-02	1.6640E-02
Pu-238	5.5000E-01	5.4783E-01			2.0780E-02	2.0698E-02
Pu-239	3.4900E-01	3.4899E-01			9.1900E-03	9.1899E-03
Np-239	2.4000E-01		4.7000E-01			
Cm-244					9.1000E-04	8.9275E-04
Un-ID-Alpha	1.1360E+00	1.1360E+00	2.0600E-02	2.0600E-02	3.0000E-04	3.0000E-04
Un-ID-B+G	3.7210E+00	3.7210E+00	4.6450E-01	4.6450E-01	6.5230E-03	6.5230E-03
LIQUID TO SEEPAGE BASINS			5.8054E+04	5.6316E+04		
LIQUID TO STREAMS			3.6922E+04	3.5837E+04		
ATMOSPHERIC			6.4887E+05	4.9896E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1971

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	8.5738E+08		6.5531E+10		2.7648E+10	
H-3	3.6211E+04	3.5203E+04	3.7954E+04	3.6898E+04	6.2128E+05	6.0398E+05
C-14					8.7000E+01	8.6995E+01
P-32			9.2000E-01	1.3060E-04		
S-35	3.0940E+00	7.2758E-01	1.1461E+01	2.6951E+00		
Ar-41					1.4100E+05	
Cr-51	2.5123E+01	2.6048E-01	7.3282E+00	7.5981E-02		
Co-58	9.7000E-01	1.6228E-01				
Co-60	4.7000E-01	4.4009E-01	4.6325E+00	4.3377E+00	2.2230E-02	2.0815E-02
Zn-65	3.0000E-02	1.7871E-02	1.7512E+00	1.0432E+00		
Kr-85					6.4010E+05	6.1974E+05
Kr-85m					3.0600E+03	
Kr-88					1.7300E+03	
Sr-89	3.4730E+00	2.8394E-01	1.9005E+00	1.5538E-01		
Sr-90	1.8703E+00	1.8478E+00	2.9360E+00	2.9006E+00		
Sr-89,90	1.3500E-03	1.3337E-03	1.6000E-02	1.5807E-02	3.6200E-02	3.5764E-02
Y-91			2.2900E+00	2.6317E-01		
Zr-95	4.2700E+00	5.9103E-01			1.3516E-01	1.8708E-02
Nb-95	4.1800E+00	1.1302E-01			3.4580E-01	9.3499E-03
Zr,Nb-95	3.4200E-01	4.7338E-02	8.9286E-01	1.2358E-01		
Ru-103	7.0200E+00	2.8133E-01			2.7339E+00	1.0956E-01
Ru-106	3.2290E+01	2.2896E+01			2.9530E+00	2.0939E+00
Ru-103,106	2.1000E-02	1.4890E-02	3.4460E-02	2.4435E-02		
Sb-124	8.0508E+00	9.8292E-01	4.0000E-02	4.8836E-03		
Sb-125	1.1100E+00	9.7947E-01	4.1000E-04	3.6179E-04		
I-129					2.1150E-01	2.1150E-01
I-131	2.8204E+00	4.0953E-07	1.5300E+00	1.9169E-07	2.6618E+01	3.8629E-06
Xe-131m					1.0870E+03	2.4753E-02
Xe-133					2.5248E+04	7.4214E-07
Cs-134	1.5900E+00	1.3440E+00			5.0800E-03	4.2940E-03
Xe-135					4.7100E+03	
Cs-137	8.6303E+00	8.5317E+00	3.0606E+00	3.0257E+00	9.3300E-03	9.2235E-03
Ba,La-140	1.0300E-02	5.0175E-07	1.3000E-01	6.5227E-06		
Ce-141	4.0000E-01	8.1373E-03			2.0810E-02	4.2335E-04
Ce-144	3.1000E+00	1.9861E+00			1.3261E-01	8.4958E-02
Ce-141,144	8.4000E-02	5.3816E-02	2.4608E+00	1.5765E+00		
Pm-147	2.1800E+00	1.9102E+00	1.2000E+00	1.0515E+00		
U-Nat	2.4000E-01	2.4000E-01	3.4800E-01	3.4800E-01	5.1700E-03	5.1700E-03
Pu-238	3.3300E-01	3.3169E-01	3.0100E-02	2.9981E-02	2.1450E-02	2.1365E-02
Pu-239	2.0700E-01	2.0700E-01			8.3500E-03	8.3499E-03
Np-239			1.6300E+00			
Cm-242					2.3400E-03	1.0775E-03
Cm-244			3.2420E-01	3.1806E-01	7.0000E-04	6.8673E-04
Un-ID-Alpha	9.7940E-01	9.7940E-01	1.1800E-02	1.1800E-02	5.0000E-04	5.0000E-04
Un-ID-B+G	6.4740E-01	6.4740E-01	7.9500E-01	7.9500E-01	1.5500E-03	1.5500E-03
LIQUID TO SEEPAGE BASINS			3.6324E+04	3.5249E+04		
LIQUID TO STREAMS			3.8000E+04	3.6916E+04		
ATMOSPHERIC			1.4383E+06	1.2238E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1972

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	8.2855E+08		5.7024E+10		3.1079E+10	
H-3	4.6959E+04	4.5652E+04	4.6011E+04	4.4730E+04	8.2227E+05	7.9938E+05
C-14					8.7000E+01	8.6995E+01
P-32			3.0000E-01	4.2586E-05		
S-35	9.7000E-01	2.2810E-01	1.4950E+00	3.5156E-01		
Ar-41					1.6666E+05	
Cr-51	3.1280E+01	3.2432E-01	1.3800E+00	1.4308E-02		
Co-58	1.0000E-01	1.6729E-02				
Co-60	4.0000E-02	3.7455E-02	1.8100E-01	1.6948E-01	7.2100E-03	6.7512E-03
Kr-85					6.0490E+05	5.8566E+05
Kr-85m					7.3300E+03	
Kr-87					2.4700E+03	
Kr-88					4.2100E+03	
Sr-89	2.3300E+00	1.9049E-01	4.5000E-01	3.6791E-02		
Sr-90	9.9000E-01	9.7807E-01	1.4280E+00	1.4108E+00		
Sr-89,90	4.6000E-04	4.5446E-04			1.3377E-01	1.3216E-01
Y-91	1.3000E-01	1.4940E-02	2.1000E-01	2.4134E-02		
Zr-95	7.0500E+00	9.7582E-01			1.5096E-01	2.0895E-02
Nb-95	8.6700E+00	2.3442E-01			2.0226E-01	5.4688E-03
Zr,Nb-95	1.1900E+00	1.6471E-01	9.9000E-02	1.3703E-02		
Ru-103	6.4100E+00	2.5688E-01			3.8488E+00	1.5424E-01
Ru-106	2.8840E+01	2.0450E+01			3.4667E+00	2.4581E+00
Ru-103,106	4.0000E-02	2.8363E-02	3.9000E-02	2.7654E-02		
Sb-125	8.6000E-01	7.5887E-01				
Sb-124,125	7.1000E-01	6.2651E-01				
I-129					2.1150E-01	2.1150E-01
I-131	3.0400E+00	4.2260E-07	9.3000E-01	1.1618E-07	2.7422E+00	3.9355E-07
Xe-131m					2.9240E+02	6.6584E-03
Xe-133					3.9108E+04	1.2897E-06
Cs-134	1.2200E+00	1.0312E+00	4.0000E-02	3.3811E-02	1.5500E-03	1.3102E-03
Xe-135					1.1800E+04	
Cs-137	8.8400E+00	8.7391E+00	1.3030E+00	1.2881E+00	2.4430E-02	2.4151E-02
Ce-141	9.2000E-01	1.8716E-02			1.3430E-02	2.7321E-04
Ce-144	1.7400E+00	1.1148E+00			3.2915E-01	2.1087E-01
Ce-141,144	3.0000E-01	1.9220E-01	4.2000E-02	2.6908E-02		
Pm-147	1.9000E+00	1.6649E+00	7.0000E-02	6.1338E-02		
U-Nat	2.3000E-01	2.3000E-01	3.9000E-01	3.9000E-01	7.7300E-03	7.7300E-03
Pu-238	4.0000E-01	3.9842E-01	5.0360E-02	5.0161E-02	1.6590E-02	1.6525E-02
Pu-239	2.4000E-01	2.4000E-01			3.7900E-03	3.7899E-03
Np-239			3.0000E-02			
Cm-244			2.7880E-02	2.7352E-02	3.9000E-04	3.8261E-04
Un-ID-Alpha	7.4520E-02	7.4520E-02	2.1350E-02	2.1350E-02		
Un-ID-B+G	3.1900E-02	3.1900E-02	2.9682E-01	2.9682E-01	1.0110E-03	1.0110E-03
LIQUID TO SEEPAGE BASINS			4.7068E+04	4.5691E+04		
LIQUID TO STREAMS			4.6020E+04	4.4735E+04		
ATMOSPHERIC			1.6591E+06	1.3851E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1973
 Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	8.9141E+08		7.3554E+10		3.1972E+10	
H-3	6.5735E+04	6.3906E+04	7.0782E+04	6.8812E+04	6.0064E+05	5.8393E+05
C-14					8.7000E+01	8.6995E+01
P-32	1.8000E-02	2.5552E-06	1.3328E-01	1.8920E-05		
S-35	1.6700E-01	3.9271E-02	1.7035E+00	4.0058E-01		
Ar-41					1.8444E+05	
Cr-51	1.4082E+01	1.4F01E-01	4.4500E-01	4.6139E-03		
Co-58	3.9000E-01	6.5245E-02				
Co-60	4.3000E-02	4.0264E-02	2.7400E-02	2.5656E-02	1.7800E-03	1.6667E-03
Kr-85					7.6500E+05	7.4066E+05
Kr-85m					6.5240E+03	
Kr-87					2.0330E+03	
Kr-88					7.3820E+03	
Sr-89	1.8600E+00	1.5207E-01	1.5700E-01	1.2836E-02		
Sr-90	8.2500E-01	8.1506E-01	1.6700E+00	1.6499E+00		
Sr-89,90	1.1100E-02	1.0966E-02	6.2000E-04	6.1253E-04	1.4040E-02	1.3871E-02
Y-91	9.7000E-02	1.1147E-02	1.2724E-01	1.4623E-02		
Zr-95	1.1350E+01	1.5710E+00			6.9260E-02	9.5866E-03
Nb-95	1.3350E+01	3.6096E-01			7.5520E-02	2.0419E-03
Zr,Nb-95	4.7200E-01	6.5332E-02	1.9247E-01	2.6641E-02		
Ru-103	4.1400E+00	1.6591E-01			1.8796E+00	7.5325E-02
Ru-106	3.4720E+01	2.4619E+01			1.3076E+00	9.2722E-01
Ru-103,106	1.0000E-03	7.0907E-04	4.8420E-02	3.4333E-02		
Sb-124,125	5.5300E-01	4.8797E-01	2.1000E-02	1.8531E-02		
I-129					2.1150E-01	2.1150E-01
I-131	3.0510E+00	4.2260E-07	1.5500E-01		1.8557E+00	2.6125E-07
Xe-131m					5.1070E+02	1.1629E-02
Xe-133					2.2443E+04	7.3904E-07
I-133					1.0210E-02	
Ce-134	6.2300E-01	5.2660E-01	2.0600E-01	1.7413E-01		
Xe-135					9.3790E+03	
Cs-137	7.0640E+00	6.9833E+00	9.1736E-01	9.0688E-01	2.5800E-03	2.5505E-03
Ce-141	1.1500E+00	2.3395E-02			3.8500E-03	7.8322E-05
Ce-144	3.7000E+00	2.3705E+00			3.8960E-02	2.4960E-02
Ce-141,144	1.8300E-01	1.1724E-01	1.4694E-01	9.4139E-02		
Pm-147	2.0490E+00	1.7954E+00	6.8720E-02	6.0216E-02		
U-Nat	1.7930E-01	1.7930E-01	2.1900E-01	2.1900E-01	5.1100E-03	5.1100E-03
Pu-238	1.9210E-01	1.9134E-01	2.2280E-02	2.2192E-02	2.2070E-02	2.1983E-02
Pu-239	9.3600E-02	9.3599E-02			1.4500E-03	1.4500E-03
Np-239	1.0000E-03		1.1000E-02			
Cm-244	9.3000E-02	9.1237E-02	3.6400E-03	3.5710E-03	3.7900E-04	3.7182E-04
Un-ID-Alpha	3.0140E-01	3.0140E-01	1.8420E-02	1.8420E-02	2.7918E-05	2.7918E-05
Un-ID-B+G	3.0150E-01	3.0150E-01	2.8572E-01	2.8572E-01	6.0600E-04	6.0600E-04
LIQUID TO SEEPAGE BASINS			6.5835E+04	6.3947E+04		
LIQUID TO STREAMS			7.0788E+04	6.8816E+04		
ATMOSPHERIC			1.5984E+06	1.3247E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1974

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.0070E+11		5.3367E+10		3.2048E+10	
H-3	3.6542E+04	3.5525E+04	5.9980E+04	5.8311E+04	9.3683E+05	9.1075E+05
C-14					8.0100E+01	8.0095E+01
P-32	2.2000E-02	3.1230E-06	1.4000E-02	1.9874E-06		
S-35	7.3000E-01	1.7166E-01	4.9690E+00	1.1685E+00		
Ar-41					1.0765E+05	
Cr-51	7.8840E+00	8.1744E-02	5.9500E-01	6.1692E-03		
Co-58	6.2000E-01	1.0372E-01				
Co-60	4.9100E-01	4.5976E-01	1.0000E-03	9.3636E-04	3.8700E-03	3.6237E-03
Zn-65	7.6000E-01	4.5274E-01	1.3700E-01	8.1612E-02		
Kr-85					5.0000E+05	4.8409E+05
Kr-85m					1.3450E+03	
Kr-87					6.3800E+02	
Kr-88					1.4080E+03	
Sr-89	3.0600E-01	2.5018E-02	1.4600E-01	1.1937E-02		
Sr-90	3.0100E-01	2.9737E-01	1.3332E+00	1.3172E+00		
Sr-89,90	7.8000E-04	7.7060E-04	3.8000E-04	3.7542E-04	1.1110E-02	1.0976E-02
Y-91	1.7400E-01	1.9996E-02	1.2800E-01	1.4710E-02		
Zr-95	4.1200E+00	5.7027E-01			3.3430E-02	4.6272E-03
Nb-95	4.6100E+00	1.2465E-01			1.2250E-01	3.3122E-03
Zr,Nb-95	3.3700E-01	4.6646E-02	2.3600E-01	3.2666E-02		
Ru-103	1.5900E+00	6.3719E-02			8.8200E-03	3.5346E-04
Ru-106	2.3950E+01	1.6982E+01			1.4239E-01	1.0096E-01
Ru-103,106	1.0000E-03	7.0907E-04	4.0000E-03	2.8363E-03		
Sb-124,125	4.1800E-01	3.6885E-01				
I-129					1.7000E-01	1.7000E-01
I-131	3.5100E-01		1.4000E-02		1.9139E+00	2.7258E-07
Xe-131m					1.3500E+02	3.0741E-03
Xe-133					5.5070E+03	1.0895E-07
Cs-134	6.4100E-01	5.4182E-01	5.8000E-02	4.9026E-02	3.0000E-05	2.5358E-05
Xe-135					2.1760E+03	
Cs-137	7.5920E+00	7.5053E+00	1.4996E+00	1.4825E+00	1.3200E-03	1.3049E-03
Cs-134,137			1.1000E-04	1.0874E-04		
Ce-141	1.1000E-01	2.2378E-03			9.8000E-04	1.9937E-05
Ce-144	2.1000E+00	1.3454E+00			2.1870E-02	1.4011E-02
Ce-141,144	2.4400E-01	1.5632E-01	1.5300E-01	9.8022E-02		
Pm-147	1.1500E+00	1.0077E+00	5.3000E-02	4.6441E-02		
U-Nat	1.0586E-01	1.0586E-01	3.4900E-01	3.4900E-01	8.6700E-03	8.6700E-03
Pu-238	9.7300E-02	9.6916E-02			4.7400E-03	4.7213E-03
Pu-239	7.7740E-02	7.7739E-02			2.9400E-03	2.9400E-03
Np-239	1.0000E-03		8.0000E-03			
Cm-244	3.9400E-02	3.8653E-02			3.9000E-04	3.8261E-04
Un-ID-Alpha	2.3100E-02	2.3100E-02	1.5670E-02	1.5670E-02	7.4010E-05	7.4010E-05
Un-ID-B+G	2.9470E-02	2.9470E-02	1.2609E-01	1.2609E-01	2.9000E-04	2.9000E-04
LIQUID TO SEEPAGE BASINS			3.6601E+04	3.5556E+04		
LIQUID TO STREAMS			5.9990E+04	5.8315E+04		
ATMOSPHERIC			1.5558E+06	1.3949E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1975

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.0048E+11		5.5984E+10		3.3985E+10	
H-3	3.5589E+04	3.4599E+04	5.5631E+04	5.4083E+04	5.1776E+05	5.0335E+05
C-14			6.6000E+01	6.5996E+01		
P-32	8.0000E-03	1.1356E-06	2.0000E-03	2.8391E-07		
S-35	5.1000E-02	1.1993E-02	2.9100E-01	6.8431E-02		
Ar-41			6.4890E+04			
Cr-51	4.5650E+00	4.7331E-02	1.1600E-01	1.2027E-03		
Co-58	4.8100E-01	8.0469E-02				
Co-60	4.2200E-01	3.9515E-01	9.0000E-03	8.4273E-03	1.1050E-03	1.0347E-03
Zn-65	5.6700E-01	3.3777E-01	2.0000E-03	1.1914E-03		
Kr-85			5.2480E+05	5.0810E+05		
Kr-85m			3.6800E+02			
Kr-87			1.1720E+03			
Kr-88			8.5800E+02			
Sr-89	4.0000E-01	3.2703E-02	1.4000E-02	1.1446E-03		
Sr-90	7.9200E-01	7.8246E-01	1.1887E+00	1.1744E+00		
Sr-89,90	6.8000E-04	6.7181E-04	4.9300E-04	4.8706E-04	5.0260E-03	4.9655E-03
Y-91	3.0000E-03	3.4477E-04	1.4000E-02	1.6089E-03		
Zr-95	9.7200E-01	1.3454E-01		1.3503E-02	1.8690E-03	
Nb-95	8.9600E-01	2.4226E-02		2.4210E-02	6.5460E-04	
Zr,Nb-95	7.0000E-03	9.6890E-04	3.9000E-02	5.3982E-03		
Ru-103	2.8000E-01	1.1221E-02		1.8150E-03	7.2736E-05	
Ru-106	6.2320E+00	4.4189E+00		3.6560E-02	2.5924E-02	
Ru-103,106	2.0000E-03	1.4181E-03	5.4000E-02	3.8290E-02		
Sb-124,125	1.0800E-01	9.5300E-02	1.0000E-03	8.8241E-04		
I-129			1.4000E-01	1.4000E-01		
I-131	2.2600E-01		1.2349E-01			
Xe-131m			5.8000E+00	1.3207E-04		
Xe-133			1.0720E+03			
Cs-134	4.9300E-01	4.1672E-01	1.7500E-01	1.4792E-01	2.0000E-04	1.6905E-04
Xe-135			7.2700E+02			
Cs-137	7.2860E+00	7.2028E+00	7.5963E-01	7.5096E-01	1.0560E-03	1.0439E-03
Cs-134,137		2.5290E-03	2.5001E-03			
Ce-141	1.6000E-02	3.2549E-04		2.8300E-04	3.7572E-06	
Ce-144	1.4450E+00	9.2576E-01		1.6130E-02	1.0334E-02	
Ce-141,144	5.0000E-03	3.2033E-03	3.9000E-02	2.4986E-02		
Pm-147	1.3550E+00	1.1873E+00	3.4000E-02	2.9793E-02		
U-Nat	1.3574E-01	1.3574E-01	4.4100E-01	4.4100E-01	4.7274E-03	4.7274E-03
Pu-238	1.5370E-01	1.5309E-01			1.9740E-03	1.9662E-03
Pu-239	3.1588E-02	3.1578E-02			5.2000E-04	5.1999E-04
Np-239			8.0000E-03			
Un-ID-Alpha	4.6770E-03	4.6770E-03	1.8603E-02	1.8603E-02	2.4340E-05	2.4340E-05
Un-ID-B+G	1.3499E-01	1.3499E-01	6.1164E-02	6.1164E-02	5.3700E-04	5.3700E-04
LIQUID TO SEEPAGE BASINS			3.5616E+04	3.4615E+04		
LIQUID TO STREAMS			5.5634E+04	5.4085E+04		
ATMOSPHERIC			1.1117E+06	1.0115E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1976

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.0055E+11		5.6714E+10		3.6783E+10	
H-3	5.8460E+04	5.6833E+04	5.9640E+04	5.7980E+04	3.0371E+05	2.9526E+05
C-14					6.9000E+01	6.8996E+01
P-32	9.0000E-03	1.2776E-06	1.7000E-02	2.4132E-06		
S-35	3.0900E-01	7.2664E-02	3.4400E-01	8.0894E-02		
Ar-41					8.2810E+04	
Cr-51	6.3750E+00	6.6098E-02	3.6200E-01	3.7533E-03		
Co-58	1.1300E-01	1.8904E-02				
Co-60	4.6800E-01	4.3822E-01	2.0000E-03	1.8727E-03	1.2900E-04	1.2079E-04
Zn-65	4.3800E-01	2.6092E-01				
Kr-85					7.3600E+05	7.1259E+05
Kr-85m					3.8300E+02	
Kr-87					4.2200E+02	
Kr-88					5.0800E+02	
Sr-89	1.9300E-01	1.5779E-02	4.0000E-03	3.270E-04		
Sr-90	4.5800E-01	4.5248E-01	9.2469E-01	9.1355E-01		
Sr-89,90	2.6200E-04	2.5884E-04	2.7650E-03	2.7317E-03	4.6030E-03	4.5475E-03
Y-91	5.1000E-02	5.8610E-03	7.5000E-02	8.6192E-03		
Zr-95	5.6980E+00	7.8869E-01			1.4271E-02	1.9753E-03
Nb-95	3.3980E+00	9.1876E-02			2.6944E-02	7.2852E-04
Zr,Nb-95	1.1500E-01	1.5918E-02	1.7000E-02	2.3531E-03		
Ru-103	1.8510E+00	7.4179E-02			2.0924E-02	8.3853E-04
Ru-106	1.3141E+01	9.3179E+00			2.6390E-01	1.8712E-01
Ru-103,106	2.3000E-02	1.6309E-02	1.0000E-03	7.0907E-04		
Sb-124,125	2.2200E-01	1.9589E-01				
I-129					1.5000E-01	1.5000E-01
I-131	1.1700E-01		2.0000E-03		1.5546E-01	
Xe-131m					6.3080E+02	1.4364E-02
Xe-133					2.4779E+03	
Cs-134	4.8300E-01	4.0827E-01	1.7000E-02	1.4370E-02	1.7009E-04	1.4370E-04
Xe-135					7.3309E+02	
Cs-137	8.7910E+00	8.6906E+00	3.0296E-01	2.9950E-01	1.3169E-03	1.3010E-03
Cs-134,137			9.8700E-04	9.7573E-04		
Ce-141	2.4000E-02	4.8824E-04			1.9709E-04	4.0076E-06
Ce-144	4.7600E-01	3.0496E-01			1.1341E-02	7.2658E-03
Ce-141,144	6.9000E-02	4.4206E-02	9.0000E-03	5.7660E-03		
Pm-147	8.4300E-01	7.3868E-01	9.4000E-02	8.2368E-02		
U-Nat	2.6196E-01	2.6196E-01	3.6300E-01	3.6300E-01	4.9724E-03	4.9724E-03
Pu-238	8.8000E-02	8.7653E-02			1.6220E-02	1.6156E-02
Pu-239	1.0030E-02	1.0031E-02			2.4000E-04	2.4000E-04
Np-239	1.0000E-03					
Cm-244	2.6000E-02	2.5507E-02			3.3000E-04	3.2375E-04
Un-ID-Alpha	5.5060E-03	5.5060E-03	8.3100E-03	8.3100E-03	2.0160E-05	2.0160E-05
Un-ID-B+G	2.1669E-01	2.1669E-01	8.0602E-02	8.0602E-02	7.7900E-04	7.7900E-04
LIQUID TO SEEPAGE BASINS			5.8504E+04	5.6856E+04		
LIQUID TO STREAMS			5.9642E+04	5.7982E+04		
ATMOSPHERIC			1.1277E+06	1.0079E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1977

Curles Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.0046E+11		7.4599E+10		3.9029E+10	
H-3	2.7571E+04	2.6804E+04	4.3762E+04	4.2544E+04	3.8119E+05	3.7058E+05
C-14					6.3000E+01	6.2966E+01
P-32	2.2030E-02	3.1273E-06	6.4380E-03	8.4293E-07		
S-35	5.1280E-02	1.2059E-02	6.1931E-01	1.4564E-01		
Ar-41					6.5080E+04	
Cr-51	6.1256E+00	6.3512E-02	6.6163E-01	6.8600E-03		
Mn-54			2.1010E-02	1.4016E-02		
Co-58	6.0000E-03	1.0038E-03				
Co-60	3.9823E-01	3.7289E-01	1.0336E-01	9.6781E-02	3.8000E-04	3.5582E-04
Zn-65	5.3100E-01	3.1632E-01				
Kr-85					4.4280E+05	4.2871E+05
Kr-85m					8.3900E+02	
Kr-87					6.0200E+02	
Kr-88					6.7100E+02	
Sr-89	6.1562E-02	5.0331E-03	2.2774E-01	1.8619E-02		
Sr-90	5.1746E-01	5.1122E-01	6.9763E-01	6.8922E-01		
Sr-89,90	6.6000E-05	6.5205E-05	1.4900E-04	1.4721E-04	4.1350E-03	4.0852E-03
Y-91	1.9490E-02	2.2398E-03	8.1487E-02	9.3647E-03		
Zr-95	2.2020E+00	3.0479E-01			1.4427E-02	1.9969E-03
Nb-95	1.4270E+00	3.8584E-02			3.7411E-02	1.0115E-03
Zr,Nb-95	8.9340E-02	1.2366E-02	9.3821E-02	1.2986E-02		
Ru-103	1.2680E+00	5.0815E-02			2.4643E-02	9.8757E-04
Ru-106	7.7640E+00	5.5052E+00			1.3964E-01	9.9015E-02
Ru-103,106	3.7740E-03	2.6760E-03	1.0220E-03	7.2467E-04		
Sb-124,125	6.2680E-02	5.5309E-02	8.8200E-04	7.7828E-04		
I-129					1.4000E-01	1.4000E-01
I-131	2.9144E-02		1.2406E-02		6.0868E-02	
Xe-131m					1.2120E+01	2.7599E-04
Xe-133					2.3020E+03	
Cs-134	2.3524E-01	1.9884E-01	4.7263E-02	3.9950E-02	4.3300E-04	3.6600E-04
Xe-135					1.5420E+03	
Cs-137	6.2443E+00	6.1730E+00	5.1002E-01	5.0420E-01	1.8620E-03	1.8407E-03
Cs-134,137			1.7500E-04	1.7300E-04		
Ce-141	1.8000E-02	3.6618E-04			3.5000E-04	7.1202E-06
Ce-144	3.0600E-01	1.9604E-01			1.4828E-02	9.4998E-03
Ce-141,144	5.8072E-02	3.7205E-02	1.4391E-01	9.2201E-02		
Pm-147	2.9483E-01	2.5835E-01	2.9016E-02	2.5425E-02		
U-Nat	1.1802E-01	1.1802E-01	8.4380E-02	8.4380E-02	1.5693E-03	1.5693E-03
Pu-238	6.6045E-02	6.5785E-02			5.0210E-03	5.0012E-03
Pu-239	1.4012E-02	1.4012E-02			1.0400E-04	1.0400E-04
Am-241	1.2000E-02	1.1990E-02			3.3850E-04	3.3823E-04
Cm-244	4.7000E-02	4.6109E-02			3.3850E-04	3.3208E-04
Un-ID-Alpha	7.4699E-04	7.4699E-04	8.3020E-03	8.3020E-03	2.5380E-05	2.5380E-05
Un-ID-B+G	1.1198E-01	1.1198E-01	5.8692E-02	5.8692E-02	4.9500E-04	4.9500E-04
LIQUID TO SEEPAGE BASINS			2.7599E+04	2.6818E+04		
LIQUID TO STREAMS			4.3766E+04	4.2546E+04		
ATMOSPHERIC			8.9510E+05	7.9936E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1978

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basin</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.0364E+11		5.7312E+11		3.5360E+10	
H-3	2.9915E+04	2.9083E+04	3.7560E+04	3.6514E+04	3.6024E+05	3.5022E+05
C-14					5.7000E+01	5.6997E+01
P-32	3.6486E-03	5.1125E-07	2.6590E-05			
S-35	1.2923E-02	3.0390E-03	1.5376E-02	3.6158E-03		
Ar-41					5.2950E+04	
Cr-51	1.5439E+00	1.6008E-02	4.0410E-02	4.1898E-04		
Co-58	5.3910E-04	9.0188E-05				
Co-60	1.6567E-01	1.5512E-01	3.9390E-04	3.6883E-04	3.8000E-04	3.5582E-04
Zn-65	5.3840E-02	3.2073E-02				
Kr-85					5.3260E+05	5.1566E+05
Kr-85m					8.8900E+02	
Kr-87					5.5500E+02	
Kr-88					8.3950E+02	
Sr-89	3.5132E-01	2.8723E-02				
Sr-90	2.0462E+00	2.0216E+00	4.8675E-01	4.8089E-01		
Sr-89,90	2.2440E-04	2.2170E-04	1.8000E-04	1.7783E-04	3.8320E-03	3.7858E-03
Y-91	1.8361E-02	2.1101E-03	3.7070E-03	4.2602E-04		
Zr-95	2.0730E+00	2.8693E-01			7.3320E-03	1.0149E-03
Nb-95	1.4765E+00	3.9922E-02			1.9663E-02	5.3165E-04
Zr, Nb-95	4.8390E-02	6.6979E-03	3.4670E-04	4.7998E-05		
Ru-103	1.2979E+00	5.2013E-02			8.0244E-01	3.2158E-02
Ru-106	1.8974E+01	1.3454E+01			3.2071E+01	2.2740E+01
Ru-103,106	7.2990E-04	5.1755E-04				
Sb-124,125	6.2470E-02	5.5124E-02				
I-129					1.3000E-01	1.3000E-01
I-131	3.7210E-02		7.2560E-04		6.5428E-02	
Xe-131m					7.0840E+00	1.6131E-04
Xe-133					2.1896E+03	
Cs-134	7.2190E-01	6.1020E-01	3.5390E-03	2.9914E-03	1.2500E-04	1.0566E-04
Xe-135					1.6850E+03	
Cs-137	1.0292E+01	1.0175E+01	2.1425E-01	2.1180E-01	2.0440E-03	2.0207E-03
Cs-134,137			1.6400E-04	1.6213E-04		
Ce-141	2.6297E-02	5.3497E-04			1.2900E-04	2.6243E-06
Ce-144	2.1600E+00	1.3839E+00			1.4166E-02	9.0756E-03
Ce-141,144	4.7143E-02	3.0203E-02	9.6160E-04	6.1606E-04		
Pm-147	5.5495E-01	4.8627E-01	3.1733E-03	2.7806E-03		
U-Nat	1.8195E-01	1.8195E-01	5.5930E-02	5.5930E-02	3.0613E-03	3.0613E-03
Pu-238	6.4020E-02	6.3768E-02			6.9400E-03	6.9126E-03
Pu-239	1.7092E-02	1.7092E-02			2.2600E-04	2.2600E-04
Am-241	2.7000E-02	2.6978E-02			1.2395E-03	1.2285E-03
Cm-244	1.0000E-02	9.8105E-03			1.3750E-04	1.3489E-04
Un-ID-Alpha	4.2123E-04	4.2123E-04	5.7510E-03	5.7510E-03	1.6850E-05	1.6850E-05
Un-ID-B+G	4.1324E-01	4.1324E-01	1.4666E-01	1.4666E-01	7.3800E-04	7.3800E-04

LIQUID TO SEEPAGE BASINS
LIQUID TO STREAMS
ATMOSPHERIC

2.9958E+04 2.9112E+04
3.7561E+04 3.6515E+04
9.5205E+05 8.6595E+05

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1979

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.9778E+11		1.1193E+12		3.7461E+10	
H-3	4.3144E+04	4.1943E+04	2.9432E+04	2.8613E+04	3.3297E+05	3.2370E+05
C-14					5.6000E+01	5.5997E+01
P-32	2.0210E-03	2.1137E-07	4.0000E-03	5.6782E-07		
S-35	1.9367E-02	4.5543E-03	1.0700E+00	2.5162E-01		
Ar-41					5.3030E+04	
Cr-51	1.2713E+00	1.3181E-02	5.3800E-01	5.5782E-03		
Co-60	1.0332E-01	9.6746E-02	4.0604E-01	3.8020E-01	4.0000E-04	3.7455E-04
Zn-65	8.0000E-02	4.7657E-02				
Kr-85					4.8250E+05	4.6715E+05
Kr-85m					1.7920E+03	
Kr-87					1.5080E+03	
Kr-88					2.2530E+03	
Sr-89	8.3156E-02	6.7986E-03				
Sr-90	2.6731E+00	2.6409E+00	4.8088E-01	4.7509E-01		
Sr-89,90	9.0000E-05	8.8916E-05	8.9000E-05	8.7928E-05	2.4610E-03	2.4314E-03
Y-91	8.1990E-03	9.4225E-04				
Zr-95	2.3790E+00	3.2929E-01			1.3176E-02	1.8238E-03
Nb-95	1.3910E+00	3.7610E-02			2.6467E-02	7.1562E-04
Zr, Nb-95	5.9260E-03	8.2025E-04				
Ru-103	1.5480E+00	6.2036E-02			4.8210E-03	1.9320E-04
Ru-106	1.5878E+01	1.1259E+01			5.4570E-02	3.8694E-02
Ru-103,106	1.8600E-04	1.3189E-04				
SB-124,125	6.9520E-02	6.1345E-02				
I-129					1.3000E-01	1.3000E-01
I-131	6.4841E-02				8.4343E-02	
Xe-131m					9.1130E+00	2.0752E-04
Xe-133					5.3373E+03	1.1957E-07
Cs-134	1.1536E+00	9.7511E-01			2.6800E-04	2.2653E-04
Xe-135					4.4630E+03	
Cs-137	6.2159E+00	6.1449E+00	2.1219E-01	2.0977E-01	5.3710E-03	5.3097E-03
Cs-134,137			2.7800E-04	2.7483E-04		
Ce-141	1.4000E-02	2.8481E-04			1.6500E-04	3.2956E-06
Ce-144	2.4749E+01	1.5856E+01			1.7735E-02	1.1362E-02
Ce-141,144	2.9049E-02	1.8611E-02				
Pm-147	2.9078E-01	2.5480E-01				
U-Nat	1.7677E-01	1.7677E-01	6.4000E-02	6.4000E-02	2.4382E-03	2.4382E-03
Pu-238	3.5083E-02	3.4944E-02			1.3720E-03	1.3666E-03
Pu-239	1.6082E-02	1.6082E-02			3.9900E-04	3.9899E-04
Am-241	4.8058E-02	4.8020E-02			3.5500E-04	3.5472E-04
Cm-244	4.8058E-02	4.7147E-02			3.8900E-04	3.8163E-04
Un-ID-Alpha	6.8800E-04	6.8800E-04	8.8210E-03	8.8210E-03	1.1678E-05	1.1678E-05
Un-ID-B+G	2.5097E-01	2.5097E-01	7.8363E-01	7.8363E-01	2.7800E-04	2.7800E-04
LIQUID TO SEEPAGE BASINS			4.3202E+04	4.1982E+04		
LIQUID TO STREAMS			2.9436E+04	2.8615E+04		
ATMOSPHERIC			8.8392E+05	7.9091E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1980

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.7079E+11		9.4128E+11		3.6423E+10	
H-3	3.5453E+04	3.4466E+04	2.4669E+04	2.3982E+04	3.1693E+05	3.0811E+05
C-14					6.6000E+01	6.5996E+01
P-32	1.8680E-03	1.3401E-07				
S-35	1.0875E-02	2.5573E-03				
Ar-41					6.9720E+04	
Cr-51	1.5479E+00	1.6049E-02				
Co-60	2.2092E-01	2.0686E-01	1.5530E-03	1.4542E-03	6.1700E-04	5.7774E-04
Zn-65	1.4000E-01	8.3399E-02				
Kr-85					5.8320E+05	5.6465E+05
Kr-85m					3.2050E+03	
Kr-87					2.7910E+03	
Kr-88					3.9780E+03	
Sr-89	4.5000E-02	3.6791E-03				
Sr-90	1.4500E-01	1.4325E-01	3.9988E-01	3.9506E-01		
Sr-89,90	9.3000E-05	9.1880E-05	9.9000E-05	9.7807E-05	2.5790E-03	2.5479E-03
Y-91	8.2500E-04	9.4811E-05				
Zr-95	3.0930E+00	4.2812E-01			1.3510E-02	1.8700E-03
Nb-95	1.9210E+00	5.1941E-02			1.7917E-02	4.8445E-04
Zr, Nb-95	1.8723E-02	2.5915E-03				
Ru-103	1.2540E+00	5.0254E-02			1.6550E-03	6.6324E-05
Ru-106	1.9793E+01	1.4035E+01			5.9840E-02	4.2431E-02
Ru-103,106	9.5800E-04	6.7929E-04				
Sb-124,125	1.6805E-02	1.4829E-02				
I-129			2.0000E-02	2.0000E-02	1.6000E-01	1.6000E-01
I-131	1.7278E-02				2.5120E-02	
Xe-131m					1.9300E-01	4.3949E-06
Xe-133					7.7570E+03	1.2791E-07
Cs-134	7.1936E-02	6.0805E-02			3.8000E-04	3.2120E-04
Xe-135					6.3710E+03	
Cs-137	1.7938E+00	1.7733E+00	1.6073E-01	1.5889E-01	2.6320E-03	2.6019E-03
Cs-134,137			3.1100E-04	3.0745E-04		
Ce-141					1.1100E-04	2.2581E-06
Ce-144	3.8200E-01	2.4473E-01			1.5537E-02	9.9540E-03
Ce-141,144	3.7080E-02	2.3756E-02				
Pm-147	1.2275E-01	1.0756E-01				
U-Nat	2.8973E-01	2.8973E-01	1.8980E-01	1.8980E-01	4.0141E-03	4.0140E-03
Pu-238	1.3110E-02	1.3058E-02			2.7630E-03	2.7521E-03
Pu-239	1.6102E-02	1.6102E-02			1.2350E-03	1.2350E-03
Am-241	2.3000E-02	2.2982E-02			1.0730E-03	1.0721E-03
Cm-244	1.0000E-02	9.8105E-03			8.9600E-04	8.7902E-04
Un-ID-Alpha	1.4190E-03	1.4190E-03	5.7740E-03	5.7740E-03	1.8560E-05	1.8560E-05
Un-ID-B+G	1.4830E-01	1.4830E-01	4.2198E-01	4.2198E-01	1.9920E-03	1.9920E-03
LIQUID TO SEEPAGE BASINS			3.5484E+04	3.4484E+04		
LIQUID TO STREAMS			2.4670E+04	2.3984E+04		
ATMOSPHERIC			9.9402E+05	8.7282E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1981

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.8097E+11		6.1550E+11		3.6911E+10	
H-3	4.1623E+04	4.0465E+04	2.3847E+04	2.3183E+04	3.9462E+05	3.8363E+05
C-14					6.9000E+01	6.8996E+01
P-32	3.7030E-03	4.3083E-07				
S-35	7.4126E-02	1.7431E-02				
Ar-41					6.1860E+04	
Cr-51	2.4487E+00	2.5389E-02				
Co-58	7.0200E-04	1.1744E-04				
Co-60	1.6077E-01	1.5054E-01	2.4600E-04	2.3035E-04	8.9000E-05	8.3336E-05
Zn-65	7.4420E-02	4.4333E-02				
Kr-85					8.3850E+05	8.1182E+05
Kr-85m					1.2990E+03	
Kr-87					8.6900E+02	
Kr-88					1.4760E+03	
Sr-89	1.2100E-01	9.8926E-03				
Sr-90	9.9106E-01	9.7912E-01	3.4784E-01	3.4365E-01		
Sr-89,90	1.2600E-04	1.2448E-04			2.9580E-03	2.9224E-03
Y-91	6.6600E-04	7.6538E-05				
Zr-95	5.6413E+00	7.8084E-01			1.7093E-02	2.3659E-03
Nb-95	4.0954E+00	1.1073E-01			6.3641E-02	1.7207E-03
Zr,Nb-95	5.2160E-03	7.2197E-04				
Ru-103	2.0459E+00	8.1988E-02			1.2975E-02	5.1997E-04
Ru-106	2.1547E+01	1.5278E+01			7.8300E-02	5.5520E-02
Ru-103,106	3.4200E-04	2.4250E-04				
Sb-125	1.6000E+00	1.4119E+00				
Sb-124,125	1.2869E-01	1.1356E-01				
I-129			2.2000E-02	2.2000E-02	1.6000E-01	1.6000E-01
I-131	2.0672E-02				4.7020E-02	
Xe-131m					6.4170E+00	1.4612E-04
Xe-133					3.9270E+03	
Cs-134	7.7102E-02	6.5172E-02			6.4100E-04	5.4182E-04
Xe-135					2.5320E+03	
Cs-137	2.6498E+00	2.6195E+00	2.2275E-01	2.2021E-01	3.0650E-03	3.0300E-03
Ce-141					3.1500E-04	6.4082E-06
Ce-144	2.8574E+00	1.8306E+00			2.6430E-02	1.6933E-02
Ce-141,144	8.2550E-03	5.2887E-03				
Pm-147	5.6370E-01	4.9394E-01				
U-Nat	7.2757E-01	7.2755E-01	1.7100E-01	1.7100E-01	6.0710E-03	6.0710E-03
Pu-238	5.871 E-02	5.8479E-02			4.5690E-03	4.5510E-03
Pu-239	5.3805E-02	5.3804E-02			2.7980E-03	2.7980E-03
Am-241	7.4227E-02	7.4167E-02			4.9400E-04	4.9360E-04
Cm-244	3.0393E-02	2.9817E-02			1.6300E-04	1.5991E-04
Un-ID-Alpha	3.1130E-03	3.1130E-03	7.6350E-03	7.6350E-03	9.3990E-06	9.3990E-06
Un-ID-B+G	1.7985E-01	1.7985E-01	3.5925E-01	3.5925E-01	1.1010E-03	1.1010E-03
LIQUID TO SEEPAGE BASINS			4.1669E+04	4.0490E+04		
LIQUID TO STREAMS			2.3848E+04	2.3184E+04		
ATMOSPHERIC			1.3052E+06	1.1955E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1982

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.1102E+11		6.3190E+11		1.0001E+11	
H-3	2.9029E+04	2.8221E+04	3.2457E+04	3.1554E+04	4.3446E+05	4.2237E+05
C-14					8.0000E+01	7.9995E+01
P-32	6.8550E-03	9.0369E-07				
S-35	1.7698E-01	4.1618E-02				
Ar-41					6.0190E+04	
Cr-51	2.8806E+00	2.9867E-02				
Mn-54	1.1000E-05	7.3382E-06				
Co-58	2.2420E-04	3.7507E-05				
Co-60	2.6385E-01	2.4706E-01	1.1100E-04	1.0394E-04	4.4000E-05	4.1200E-05
Zn-65	9.1837E-02	5.4708E-02				
Kr-85					5.1070E+05	4.9445E+05
Kr-85m					1.2670E+03	
Kr-87					6.8700E+02	
Kr-88					1.1960E+03	
Sr-89	6.7439E-02	5.5137E-03				
Sr-89,90					2.2560E-03	2.2288E-03
Y-91	8.3420E-03	9.5868E-04				
Zr-95	6.3187E+00	8.7460E-01			1.4380E-02	1.9904E-03
Nb-95	4.0649E+00	1.0991E-01			1.5878E-02	4.2931E-04
Zr,Nb-95	1.1344E-02	1.5702E-03				
Ru-103	2.2739E+00	9.1127E-02			5.4407E-02	2.1804E-03
Ru-106	6.6100E+00	4.6870E+00			1.8805E-01	1.3334E-01
Ru-103,106	2.2867E-03	1.6214E-03				
Sb-124,125	7.0998E-02	6.2649E-02				
I-129			2.2000E-02	2.2000E-02	5.9000E-02	5.9000E-02
I-131	8.1346E-02				1.0603E-01	
Xe-131m					5.8600E+01	1.3344E-03
Xe-133					4.2480E+03	
Cs-134	5.0782E-02	4.2924E-02			3.8000E-05	3.2120E-05
Xe-135					2.4230E+03	
Cs-137	2.8208E+00	2.7886E+00	1.6054E-01	1.5871E-01	9.6100E-04	9.5003E-04
Ce-141	6.5830E-03	1.3392E-04			4.2000E-04	8.5442E-06
Ce-144	6.5613E-01	4.2036E-01			7.8490E-03	5.0286E-03
Ce-141,144	8.1920E-03	5.2483E-03				
Pm-147	4.7559E-01	4.1674E-01				
U-Nat	3.6147E-01	3.6147E-01	4.2140E-02	4.2140E-02	9.1469E-03	9.1469E-03
Pu-238	2.7601E-02	2.7492E-02			3.9990E-03	3.9832E-03
Pu-239	2.7435E-02	2.7435E-02			1.7040E-03	1.7040E-03
Am-241	1.9706E-02	1.9690E-02			4.9800E-04	4.9760E-04
Cm-244	8.2480E-03	8.0917E-03			1.6500E-04	1.6187E-04
Un-ID-Alpha	4.9646E-03	4.9646E-03	9.2430E-03	9.2430E-03	1.1457E-05	1.1457E-05
Un-ID-B+G	1.4562E-01	1.4562E-01	1.3168E-01	1.3168E-01	1.0950E-03	1.0950E-03

LIQUID TO SEEPAGE BASINS

LIQUID TO STREAMS

ATMOSPHERIC

2.9057E+04 2.8232E+04

3.2458E+04 3.1555E+04

1.0153E+06 9.1690E+05

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1983

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.1391E+11		7.1992E+11		3.3094E+10	
H-3	3.7329E+04	3.6290E+04	3.4002E+04	3.3056E+04	6.1827E+05	6.0106E+05
C-14					9.0010E+01	9.0004E+01
P-32	1.5843E-02	2.2490E-06				
S-35	1.0223E-01	2.4040E-02				
Ar-41					4.0739E+04	
Cr-51	1.1800E+00	1.2234E-02				
Co-58	2.1230E-02	3.5517E-03				
Co-60	2.2481E-01	2.1051E-01	1.8520E-03	1.7341E-03	1.6800E-04	1.5731E-04
Zn-65	9.4530E-02	5.6313E-02				
Se-75					5.5000E-05	1.9112E-05
Kr-85					5.6570E+05	5.4770E+05
Kr-85m					1.2260E+03	
Kr-87					8.0200E+02	
Kr-88					1.2850E+03	
Sr-89	8.7274E-02	7.1353E-03				
Sr-90	2.2461E-01	2.2191E-01	3.0546E-01	3.0178E-01		
Sr-89,90					2.7270E-03	2.6941E-03
Y-91	2.3760E-05	2.7306E-06				
Zr-95	3.7782E+00	5.2296E-01			1.1192E-02	1.5491E-03
Nb-95	3.2321E+00	8.7391E-02			1.7988E-02	4.8637E-04
Zr,Nb-95	2.0222E-02	2.7990E-03				
Ru-103	4.3120E-01	1.7280E-02			2.0329E-02	8.1469E-04
Ru-106	2.6788E+00	1.8995E+00			8.1216E-02	5.7588E-02
Ru-103,106	5.3820E-04	3.8162E-04				
Sb-124,125	7.2529E-02	6.4000E-02				
I-129			2.2000E-02	2.2000E-02	4.1000E-02	4.1000E-02
I-131	4.0920E-02				8.4055E-02	
Xe-131m					1.9580E+01	4.4587E-04
Xe-133					3.4000E+03	
Cs-134	8.8571E-02	7.4867E-02			5.6000E-05	4.7335E-05
Xe-135					2.3590E+03	
Cs-137	3.2959E+00	3.2583E+00	1.4802E-01	1.4633E-01	9.9400E-04	9.8265E-04
Cs-134,137			1.0860E-03	1.0736E-03		
Ce-141	5.9030E-03	1.2009E-04			4.7000E-04	9.5614E-06
Ce-144	3.5450E-01	2.2712E-01			8.8800E-03	5.6891E-03
Ce-141,144	2.2224E-02	1.4238E-02				
Pm-147	6.6530E-02	5.8297E-02				
Os-185					5.5000E-04	1.4223E-04
U-Nat	4.8097E-01	4.8097E-01	1.7320E-02	1.7320E-02	4.4655E-03	4.4655E-03
Pu-238	3.7005E-02	3.6859E-02			2.6200E-03	2.6097E-03
Pu-239	9.9220E-03	9.9218E-03			7.2000E-04	7.1999E-04
Am-241	1.6588E-02	1.6575E-02			2.5700E-04	2.5679E-04
Cm-244	1.4369E-02	1.4097E-02			5.0600E-04	4.9641E-04
Un-ID-Alpha	4.0172E-03	4.0172E-03	6.7430E-03	6.7430E-03	1.2834E-05	1.2834E-05
Un-ID-B+G	1.5248E-01	1.5248E-01	4.4828E-02	4.4828E-02	1.8520E-03	1.8520E-03
LIQUID TO SEEPAGE BASINS			3.7345E+04	3.6297E+04		
LIQUID TO STREAMS			3.4003E+04	3.3056E+04		
ATMOSPHERIC			1.2339E+06	1.1489E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1984

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.2089E+11		3.7087E+11		3.1451E+10	
H-3	3.6307E+04	3.5297E+04	3.2790E+04	3.1878E+04	7.8637E+05	7.6448E+05
C-14					8.3000E+01	8.2995E+01
P-32	3.0310E-03	3.7973E-07				
S-35	1.4694E-02	3.4554E-03				
Ar-41					3.5921E+04	
Cr-51	5.9313E+00	6.1498E-02				
Co-58	1.4000E-02	2.3421E-03				
Co-60	2.6629E-01	2.4934E-01	3.1200E-04	2.9215E-04	5.4000E-05	5.0564E-05
Zn-65	1.0000E-02	5.9571E-03				
Se-75					4.2000E-05	1.4595E-05
Br-82					4.0000E-02	
Kr-85					8.4320E+05	8.1638E+05
Kr-85m					1.1790E+03	
Kr-87					5.9900E+02	
Kr-88					9.2300E+02	
Sr-89	1.6444E-02	1.3444E-03				
Sr-90	8.1735E-02	8.0750E-02	3.3266E-01	3.2866E-01		
Sr-89,90					3.5200E-03	3.4776E-03
Y-91	5.2850E-03	6.0736E-04				
Zr-95	7.0150E+00	9.7098E-01			1.3788E-02	1.9085E-03
Nb-95	4.8220E+00	1.3038E-01			1.9104E-02	5.1654E-04
Zr,Nb-95	1.5152E-02	2.0973E-03				
Ru-103	3.8300E-01	1.5349E-02			1.8967E-02	7.6010E-04
Ru-106	1.2810E+00	9.0832E-01			1.4800E-01	1.0494E-01
Ru-103,106	2.4030E-03	1.7039E-03				
Sb-124,125	2.8443E-02	2.5098E-02				
I-129			2.2000E-02	2.2000E-02	3.5400E-02	3.5400E-02
I-131	1.1958E-01				2.8241E-01	
Xe-131m					1.8400E+01	4.1899E-04
Xe-133					3.6930E+03	1.0443E-07
Cs-134	1.7012E-01	1.4380E-01			3.8000E-05	3.2120E-05
Xe-135					2.4750E+03	
Cs-137	5.9042E+00	5.8367E+00	2.3852E-01	2.3579E-01	1.9440E-03	1.9218E-03
Cs-134,137			1.2810E-03	1.2664E-03		
Ce-141	3.0000E-03	6.1030E-05			8.3800E-04	1.7048E-05
Ce-144	7.7000E-02	4.9331E-02			1.3249E-02	8.4882E-03
Ce-141,144	1.4164E-02	9.0744E-03				
Pm-147	3.5437E-01	3.1052E-01				
Os-185					4.0000E-04	1.0344E-04
U-Nat	1.7172E-01	1.7172E-01	9.6950E-03	9.6950E-03	2.1890E-03	2.1890E-03
Pu-238	2.4000E-02	2.3905E-02			1.3650E-03	1.3596E-03
Pu-239	1.8000E-02	1.8000E-02			4.6000E-04	4.5999E-04
Am-241	2.4000E-02	2.3981E-02			1.4200E-04	1.4189E-04
Cm-244	2.9000E-02	2.8450E-02			2.5900E-04	2.5409E-04
Un-ID-Alpha	4.4140E-03	4.4140E-03	3.1157E-02	3.1157E-02	1.2391E-05	1.2391E-05
Un-ID-B+G	4.5318E-01	4.5318E-01	1.2692E-01	1.2692E-01	5.0300E-04	5.0300E-04
LIQUID TO SEEPAGE BASINS			3.6335E+04	3.5306E+04		
LIQUID TO STREAMS			3.2791E+04	3.1879E+04		
ATMOSPHERIC			1.6745E+06	1.5809E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1985

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	2.7594E+11		5.8189E+11		2.8823E+10	
H-3	3.9964E+04	3.8852E+04	2.5018E+04	2.4322E+04	6.7403E+05	6.5528E+05
C-14					7.6000E+01	7.5995E+01
P-32	6.1100E-04					
S-35	4.3112E-02	1.0138E-02				
Ar-41					5.1753E+04	
Cr-51	3.8250E+00	3.9659E-02				
Co-58	7.0000E-03	1.1711E-03				
Co-60	2.9170E-01	2.7313E-01				
Zn-65	3.0000E-03	1.7871E-03				
Se-75					9.3000E-06	3.2317E-06
Kr-85					6.5000E+05	6.2932E+05
Kr-85m					1.2810E+03	
Kr-87					1.0470E+03	
Kr-88					1.2780E+03	
Sr-89	1.3754E-02	1.1245E-03				
Sr-90	1.5362E-01	1.5177E-01	1.7632E-01	1.7420E-01		
Sr-89,90					1.7720E-03	1.7507E-03
Y-91	2.2600E-03	2.5972E-04				
Zr-95	1.0261E+01	1.4203E+00			2.9180E-02	4.0389E-03
Nb-95	8.5950E+00	2.3239E-01			4.8690E-02	1.3165E-03
Zr,Nb-95	1.3074E-01	1.8096E-02				
Ru-103	7.6800E-01	3.0778E-02			1.1035E-02	4.4223E-04
Ru-106	7.9620E+00	5.6456E+00			4.3300E-02	3.0703E-02
Ru-103,106	4.3230E-03	3.0653E-03				
Sb-124,125	1.0677E-02	9.4215E-03				
I-129			2.2000E-02	2.2000E-02	6.5000E-02	6.5000E-02
I-131	3.2368E-02				6.0462E-02	
Xe-131m					5.0000E+00	1.1386E-04
Xe-133					4.6320E+03	1.0769E-07
Cs-134	6.7705E-02	5.7229E-02			3.0000E-05	2.5358E-05
Xe-135					1.7950E+03	
Cs-137	6.1982E+00	6.1274E+00	9.9029E-02	9.7898E-02	5.1750E-03	5.1159E-03
Ce-141					3.6530E-03	7.4233E-05
Ce-144	1.8800E-01	1.2044E-01			5.1050E-02	3.2706E-02
Ce-141,144	9.3587E-02	5.9958E-02				
Pm-147	4.3385E-01	3.8017E-01				
Os-185					5.8000E-04	1.4998E-04
U-Nat	1.6853E-01	1.6853E-01	1.3500E-03	1.3500E-03	2.5364E-03	2.5364E-03
Pu-238	2.6000E-02	2.5898E-02			5.4400E-04	5.4186E-04
Pu-239	2.0000E-02	2.0000E-02			4.9700E-04	4.9699E-04
Am-241	2.3000E-02	2.2982E-02			4.2600E-04	4.2566E-04
Cm-244	2.8000E-02	2.7469E-02			2.4600E-04	2.4134E-04
Un-ID-Alpha	7.9190E-03	7.9190E-03	7.0040E-03	7.0040E-03	1.4320E-05	1.4320E-05
Un-ID-B+G	6.2147E-01	6.2147E-01	1.2597E-01	1.2597E-01	6.7900E-04	6.7900E-04
LIQUID TO SEEPAGE BASINS			4.0004E+04	3.8867E+04		
LIQUID TO STREAMS			2.5019E+04	2.4322E+04		
ATMOSPHERIC			1.3859E+06	1.2847E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1986

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	4.4108E+11		2.6963E+14		4.5075E+10	
H-3	5.1712E+04	5.0273E+04	2.7821E+04	2.7047E+04	4.2252E+05	4.1076E+05
C-14					4.5660E+01	4.5657E+01
P-32	8.5000E-05					
S-35	2.7032E-02	6.3568E-03				
Ar-41					8.3184E+04	
Cr-51	5.5370E-01	5.7409E-03				
Co-58	2.2470E-03	3.7591E-04				
Co-60	1.3142E-01	1.2305E-01			8.0000E-06	7.4909E-06
Zn-65	5.1940E-02	3.0941E-02				
Se-75					2.1000E-05	7.2974E-06
Kr-85					7.1000E+05	6.8741E+05
Kr-85m					1.9910E+03	
Kr-87					1.3840E+03	
Kr-88					2.4300E+03	
Sr-89	1.0684E-02	8.7350E-04				
Sr-90	1.0870E-01	1.0739E-01	2.5936E-01	2.5624E-01		
Sr-89,90					9.2000E-04	9.0892E-04
Zr-95	8.4581E-01	1.1707E-01			4.3750E-03	6.0556E-04
Nb-95	9.5633E-01	2.5858E-02			9.1840E-03	2.4832E-04
Zr,Nb-95	1.5594E-02	2.1584E-03				
Ru-103	4.0516E-01	1.6237E-02			3.5000E-03	1.4026E-04
Ru-106	8.0790E+00	5.7286E+00			5.8979E-02	4.1820E-02
Ru-103,106	1.9163E-03	1.3588E-03				
Sb-124,125	9.2090E-03	8.1261E-03				
I-129			2.2000E-02	2.2000E-02	8.7000E-02	8.7000E-02
I-131	7.5956E-03				2.6334E-02	
Xe-131m					3.0000E-01	6.8314E-06
Xe-133					1.0605E+04	3.3677E-07
Cs-134	1.2745E-01	1.0773E-01			6.9420E-04	5.8679E-04
Xe-135					2.6010E+03	
Cs-137	1.1275E+01	1.1146E+01	1.0533E-01	1.0413E-01	2.9450E-03	2.9114E-03
Cs-134,137			1.5000E-04	1.4829E-04		
Ce-141					1.9000E-05	3.0515E-07
Ce-144	4.0022E-01	2.5641E-01			1.1008E-02	7.0524E-03
Ce-141,144	1.5804E-02	1.0125E-02				
Pm-147	1.3891E+00	1.2172E+00				
Os-185					1.4000E-04	3.6203E-05
U-Nat	1.1551E+00	1.1551E+00	4.3870E-02	4.3870E-02	1.5688E-03	1.5688E-03
Pu-238	2.5030E-02	2.4931E-02			2.0180E-03	2.0100E-03
Pu-239	8.1362E-03	8.1361E-03			2.5200E-04	2.5200E-04
Am-241	1.1888E-02	1.1878E-02			1.5400E-04	1.5388E-04
Cm-244	2.6970E-02	2.6459E-02			2.8000E-05	2.7469E-05
Un-ID-Alpha	1.2295E+00	1.2295E+00	8.4690E-03	8.4690E-03	8.3892E-05	8.3892E-05
Un-ID-B+G	1.9723E-01	1.9723E-01	7.2043E-02	7.2043E-02	9.6900E-04	9.6900E-04
LIQUID TO SEEPAGE BASINS			5.1739E+04	5.0295E+04		
LIQUID TO STREAMS			2.7822E+04	2.7047E+04		
ATMOSPHERIC			1.2348E+06	1.0982E+06		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1987

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	4.7866E+11		6.3620E+11		4.3241E+10	
H-3	3.4029E+04	3.3081E+04	2.2586E+04	2.1957E+04	5.9745E+05	5.8082E+05
C-14					4.1000E+01	4.0997E+01
P-32	1.2670E-05					
S-35	2.3015E-02	5.4121E-03				
Ar-41					8.7672E+04	
Cr-51	9.8001E-02	1.0161E-03				
Co-58	9.3710E-04	1.5677E-04				
Co-60	1.4625E-02	1.3695E-02				
Zn-65	2.0790E-02	1.2385E-02				
Se-75					4.0000E-05	1.3900E-05
Kr-85					3.9500E+05	3.8243E+05
Kr-85m					1.4570E+03	
Kr-87					1.0000E+03	
Kr-98					2.0080E+03	
Sr-89	8.9621E-03	7.3272E-04				
Sr-90	4.7024E-02	4.6457E-02	2.8452E-01	2.8109E-01		
Sr-89,90					6.1300E-04	6.0562E-04
Zr-95	1.3326E-01	1.8445E-02			1.6720E-03	2.3143E-04
Nb-95	1.8517E-01	5.0066E-03			3.2920E-03	8.9010E-05
Zr, Nb-95	1.8315E-03	2.5351E-04				
Ru-103	3.1724E-03	1.2713E-04			1.3690E-03	5.4863E-05
Ru-106	9.7690E-01	6.9269E-01			4.5300E-02	3.2121E-02
Ru-103,106	5.7115E-05	4.0499E-05				
Sb-124,125	1.7813E-04	1.5718E-04				
I-129			2.2000E-02	2.2000E-02	7.2000E-02	7.2000E-02
I-131	3.2687E-02				1.2585E-02	
Xe-133					5.3220E+03	1.0073E-07
Cs-134	1.2247E-01	1.0352E-01			3.5518E-02	3.0022E-02
Xe-135					3.4810E+03	
Cs-137	1.5333E+01	1.5158E+01	3.8058E-01	3.7623E-01	1.0736E+00	1.0613E+00
Ce-141	1.6614E-03	3.3798E-05			6.0000E-06	
Ce-144	1.6096E-01	1.0312E-01			3.1457E-02	2.0153E-02
Ce-141,144	2.0538E-03	1.3158E-03				
Pm-147	5.0246E-01	4.4028E-01				
Os-185					7.0000E-05	1.8102E-05
U-Nat	5.1892E-02	5.1892E-02	5.4860E-03	5.4860E-03	8.5202E-03	8.5202E-03
Pu-238	1.2630E-02	1.2580E-02			1.9620E-03	1.9543E-03
Pu-239	2.5765E-03	2.5765E-03			2.7300E-04	2.7300E-04
Am-241	6.8980E-03	6.8925E-03			2.0400E-04	2.0384E-04
Cm-244	5.9975E-03	5.8838E-03			3.2200E-04	3.1590E-04
Un-ID-Alpha	8.0569E-02	8.0569E-02	1.8211E-02	1.8211E-02	1.3444E-04	1.3444E-04
Un-ID-B+G	1.3040E-01	1.3040E-01	1.1066E-01	1.1066E-01	7.5400E-04	7.5400E-04
LIQUID TO SEEPAGE BASINS			3.4046E+04	3.3098E+04		
LIQUID TO STREAMS			2.2586E+04	2.1958E+04		
ATMOSPHERIC			1.0934E+06	9.6330E+05		

TOTAL SRS RADIOACTIVE RELEASES BY RADIONUCLIDE—1988

Curies Released (Liquid Volume in Liters, Atmospheric Volume in Cubic Meters)

	<u>Liquid to Seepage Basins</u>		<u>Liquid to Streams</u>		<u>Atmospheric</u>	
	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Release</u>	<u>Decay Corrected</u>	<u>Original Releases</u>	<u>Decay Corrected</u>
Volumes	3.4149E+11		4.4929E+11		4.6211E+10	
H-3	1.3743E+04	1.3360E+04	1.9338E+04	1.8799E+04	4.6610E+05	4.5313E+05
C-14					2.4000E+01	2.3999E+01
P-32	9.8210E-06					
S-35	2.4347E-03	5.7253E-04				
Ar-41					2.9514E+04	
Cr-51	2.6744E-03	2.7729E-05				
Co-58	2.7770E-04	4.6458E-05				
Co-60	8.1188E-04	7.6022E-04			3.0000E-06	2.8091E-06
Zn-65	4.7140E-03	2.8082E-03				
Se-75					2.0000E-05	6.9499E-06
Kr-85					2.4000E+05	2.3236E+05
Kr-85m					1.0210E+03	
Kr-87					1.3600E+03	
Kr-88					1.6060E+03	
Sr-89	2.7569E-02	2.2540E-03				
Sr-90	2.9880E-02	2.9520E-02	3.4424E-01	3.4009E-01		
Sr-89,90					1.0420E-03	1.0294E-03
Zr-95	1.8590E-02	2.5731E-03			7.6000E-04	1.0520E-04
Nb-95	2.4421E-02	6.6030E-04			2.2200E-03	6.0025E-05
Zr,Nb-95	7.5000E-07	1.0381E-07				
Ru-103					4.6100E-04	1.8475E-05
Ru-106	1.8269E-01	1.2954E-01			3.0190E-02	2.1407E-02
I-129			2.2000E-02	2.2000E-02	6.3000E-02	6.3000E-02
I-131	2.1560E-03				2.6250E-03	
Xe-133					3.4850E+03	
Cs-134	7.9979E-02	6.7604E-02			6.5800E-04	5.5619E-04
Xe-135					2.9760E+03	
Cs-137	6.2765E+00	6.2048E+00	5.6399E-01	5.5755E-01	1.7840E-03	1.7636E-03
Ce-141					1.6000E-05	3.2549E-07
Ce-144	8.1040E-02	5.1919E-02			4.5620E-03	2.9227E-03
Ce-141,144	2.1600E-05	1.3838E-05				
Pm-147	1.0623E-01	9.3085E-02	1.9725E-02	1.7284E-02		
Os-185					3.0000E-05	7.7578E-06
U-NAT	2.2095E-02	2.2095E-02	5.4880E-03	5.4880E-03	1.4678E-03	1.4678E-03
Pu-238	5.6520E-03	5.6297E-03			8.2500E-04	8.2175E-04
Pu-239	1.3828E-03	1.3827E-03			3.3100E-04	3.3100E-04
Am-241	3.3250E-03	3.3223E-03			1.1800E-04	1.1791E-04
Cm-244	3.3651E-03	3.3013E-03			6.7000E-05	6.5730E-05
Un-ID-Alpha	3.5870E-02	3.5870E-02	5.5360E-03	5.5360E-03	4.0907E-04	4.0907E-04
Un-ID-B+G	6.6864E-03	6.6864E-03	3.2572E-02	3.2572E-02	2.1800E-03	2.1800E-03
LIQUID TO SEEPAGE BASINS			1.3750E+04	1.3367E+04		
LIQUID TO STREAMS			1.9338E+04	1.8800E+04		
ATMOSPHERIC			7.4609E+05	6.8552E+05		

Summary D Data Tables:

***Monthly Radioactive Releases from
Each Emission Source, 1986-1988***

TECHNICAL AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curles Released (Volume in Liters)

A Area (Liquid to Stream)

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.100E-05	6.000E-06	7.599E+06
FEBRUARY	2.200E-05	8.000E-06	7.599E+06
MARCH	4.200E-05	2.000E-05	7.599E+06
APRIL	1.900E-05	8.000E-06	7.599E+06
MAY	2.300E-05	6.000E-06	7.599E+06
JUNE	2.900E-05	9.000E-06	7.599E+06
JULY	1.400E-05	5.000E-06	7.599E+06
AUGUST	4.700E-05	9.000E-06	7.599E+06
SEPTEMBER	2.600E-05	1.600E-05	6.863E+07
OCTOBER	2.300E-05	9.000E-06	6.863E+07
NOVEMBER	8.800E-05	2.200E-05	6.407E+07
DECEMBER	7.400E-05	3.900E-05	8.869E+07
TOTAL	4.180E-04	1.570E-04	3.508E+08

- Less than sensitivity of analysis

TECHNICAL AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curles Released (Volume in Liters)

A Area

	<u>Tritium</u>	<u>Co-60</u>	<u>I-131</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	-	-	3.800E-05	2.000E-06	-	2.714E+11
FEBRUARY	-	-	1.200E-05	2.000E-06	-	2.714E+11
MARCH	-	-	3.900E-05	2.000E-06	-	2.714E+11
APRIL	-	-	6.300E-05	2.000E-06	-	2.714E+11
MAY	-	-	9.800E-05	3.000E-06	-	2.714E+11
JUNE	-	-	9.800E-05	3.000E-06	1.000E-06	2.714E+11
JULY	-	-	2.950E-04	1.000E-06	1.000E-06	2.714E+11
AUGUST	-	-	3.930E-04	2.000E-06	-	2.714E+11
SEPTEMBER	-	-	3.490E-04	3.000E-06	-	2.714E+11
OCTOBER	-	-	4.460E-04	2.000E-06	1.000E-06	2.714E+11
NOVEMBER	-	-	3.740E-04	2.000E-06	-	2.714E+11
DECEMBER	-	-	2.650E-04	2.000E-06	-	2.714E+11
TOTAL			2.470E-03	2.600E-05	3.000E-06	3.256E+12

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

C-Area Heat Exchanger Cooling Water (Liquid to Stream)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	2.642E+01	1.831E+10
FEBRUARY	2.546E+01	1.831E+10
MARCH	6.980E+00	5.699E+10
APRIL	8.288E+00	5.699E+10
MAY	4.468E+00	4.559E+09
JUNE	5.186E+00	4.559E+09
JULY	9.912E+00	5.983E+09
AUGUST	1.612E+01	4.579E+09
SEPTEMBER	5.725E+01	9.484E+09
OCTOBER	9.369E+01	4.579E+09
NOVEMBER		4.579E+09
DECEMBER		5.724E+09
TOTAL	2.538E+02	1.946E+11

- Less than sensitivity for analysis

**REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986**
Curies Released (Volume in Liters)

C-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	1.869E+00	-	-	-	-
FEBRUARY	1.117E+00	-	-	-	-
MARCH	1.297E+00	-	-	-	-
APRIL	1.308E+00	-	-	-	-
MAY	1.269E+00	-	-	-	-
JUNE	1.151E+00	-	-	-	-
JULY	1.066E+00	-	-	-	-
AUGUST	1.244E+00	-	-	-	-
SEPTEMBER	8.671E+00	-	-	-	-
OCTOBER	1.193E+01	-	-	-	-
NOVEMBER	5.390E-01	-	-	-	-
DECEMBER	3.730E-01	-	-	-	-
TOTAL	3.184E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	6.409E+08
FEBRUARY	-	5.299E+08
MARCH	-	5.009E+08
APRIL	-	4.759E+08
MAY	-	5.079E+08
JUNE	-	5.279E+08
JULY	-	6.059E+08
AUGUST	-	5.789E+08
SEPTEMBER	-	5.939E+08
OCTOBER	-	4.889E+08
NOVEMBER	-	4.699E+07
DECEMBER	-	2.499E+07
TOTAL		5.523E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

C Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58,60</u>
JANUARY					
FEBRUARY	1.011E+02	-	1.881E-04	-	1.089E-04
MARCH	2.043E+01	-	2.340E-07	-	1.560E-06
APRIL					
MAY					
JUNE					
JULY					
AUGUST	2.958E+01	-	2.440E-03	2.945E-04	1.021E-05
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER	4.123E+01	-	3.253E-03	3.532E-04	-
TOTAL	1.924E+02		5.882E-03	6.478E-04	1.207E-04

	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103,106</u>
JANUARY				
FEBRUARY	-	1.800E-06	3.324E-05	-
MARCH	1.482E-05	-	9.360E-06	-
APRIL				
MAY				
JUNE				
JULY				
AUGUST	6.678E-06	8.533E-06	-	-
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER	3.132E-05	-	-	-
TOTAL	5.281E-05	1.033E-05	4.260E-05	

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

C Area (Purges to Seepage Basins). CONT'D.

	<u>Sb-124,125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141,144</u>
JANUARY					
FEBRUARY	-	-	4.229E-04	1.929E-03	2.584E-04
MARCH	-	-	-	5.148E-06	2.714E-05
APRIL					
MAY					
JUNE					
JULY					
AUGUST	-	-	3.804E-06	3.081E-05	-
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER	5.655E-05	-		1.026E-05	-
TOTAL	5.655E-05		4.267E-04	1.975E-03	2.856E-04

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY				
FEBRUARY	-	7.425E-04	1.578E-05	3.899E+05
MARCH	7.000E-06	6.800E-05	1.092E-06	7.799E+04
APRIL				
MAY				
JUNE				
JULY				
AUGUST	8.139E-06	2.771E-03	3.278E-07	6.879E+04
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER	1.635E-05	3.711E-03	3.480E-07	1.739E+05
TOTAL	3.149E-05	7.292E-03	1.754E-05	7.107E+05

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

C Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	9.467E+03	-	-	-	-
FEBRUARY	3.014E+03	-	-	-	-
MARCH	2.457E+03	-	-	-	-
APRIL	1.705E+03	-	-	-	-
MAY	1.763E+03	-	-	-	-
JUNE	2.316E+03	-	-	-	-
JULY	2.121E+03	-	-	-	-
AUGUST	1.914E+03	1.000E+00	-	-	-
SEPTEMBER	5.382E+03	1.000E+00	-	-	-
OCTOBER	7.980E+02	1.000E+00	-	-	-
NOVEMBER	1.629E+03	1.000E+00	-	-	-
DECEMBER	2.123E+03	-	-	-	-
TOTAL	3.468E+04	4.000E+00			
	<u>Total Kr</u>	<u>Stack I-131</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL					
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	-	5.000E-06	1.000E-07	3.438E+11	9.062E+10
FEBRUARY	-	6.000E-06	7.000E-08	3.472E+11	9.062E+10
MARCH	-	6.000E-06	2.900E-07	3.296E+11	1.132E+11
APRIL	-	5.000E-06	2.400E-07	2.039E+11	9.062E+10
MAY	-	7.000E-06	1.200E-07	2.180E+11	9.062E+10
JUNE	-	1.000E-05	1.100E-07	2.647E+11	1.132E+11
JULY	-	5.000E-06	8.000E-08	1.854E+11	9.062E+10
AUGUST	-	7.000E-06	2.300E-07	1.888E+11	9.062E+10
SEPTEMBER	-	6.000E-06	9.000E-08	2.466E+11	1.146E+11
OCTOBER	-	-	5.000E-08	2.500E+11	9.175E+10
NOVEMBER	-	5.000E-06	1.200E-07	2.537E+11	9.175E+10
DECEMBER	-	7.000E-06	2.000E-07	3.656E+11	1.146E+11
TOTAL		6.900E-05	1.700E-06	3.197E+12	1.183E+12

- Less than sensitivity of analysis

D AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

420 D (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un I.D.Beta+Gamma</u>	<u>Un I.D.Alpha</u>	<u>Volume</u>
JANUARY	2.490E+02	-	-	-	-	2.269E+04
FEBRUARY	1.890E+02	-	-	-	5.000E-05	1.659E+04
MARCH	2.100E+03	-	-	-	-	3.378E+08
APRIL	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUNE	-	-	-	-	-	-
JULY	2.361E+02	-	-	-	-	3.378E+08
AUGUST	4.902E+02	-	-	-	-	3.378E+08
SEPTEMBER	3.380E+01	-	-	-	-	3.299E+08
OCTOBER	1.600E+01	-	-	-	-	3.399E+08
NOVEMBER	1.629E+01	-	-	-	-	3.299E+08
DECEMBER	1.900E+01	-	-	-	-	3.399E+08
TOTAL	3.349E+03				5.000E-05	2.353E+09

- Less than sensitivity of analysis

D AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

421-2D (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	1.390E+02	-	-	1.700E-03	-	5.999E+04
FEBRUARY	2.389E+01	-	-	8.160E-03	-	5.969E+04
MARCH	6.599E+00	-	-	1.000E-04	-	6.299E+04
APRIL	2.719E+01	-	-	3.300E-04	-	6.029E+04
MAY	2.573E+02	-	-	1.160E-03	-	5.999E+04
JUNE	-	-	-	-	-	-
JULY	1.769E+01	-	-	1.160E-03	-	6.299E+04
AUGUST	-	-	-	-	-	-
SEPTEMBER	-	-	-	-	-	-
OCTOBER	-	-	-	-	-	-
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	-	-	-
TOTAL	4.717E+02			1.261E-02		3.659E+05

- Less than sensitivity of analysis

D AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

772-D (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	2.779E+01	-	-	1.970E-03	-	4.599E+05
FEBRUARY	8.399E+00	-	-	-	-	4.199E+05
MARCH	4.599E+00	-	-	-	-	4.599E+05
APRIL	4.500E+00	-	-	-	-	4.469E+05
MAY	8.339E+01	-	-	3.500E-03	-	4.599E+05
JUNE	1.139E+01	-	-	2.100E-03	-	1.599E+05
JULY	1.369E+01	-	1.500E-04	-	-	1.699E+05
AUGUST	1.539E+01	-	-	-	-	1.699E+05
SEPTEMBER	1.629E+00	-	-	-	-	1.599E+05
OCTOBER	1.000E+00	-	-	-	-	1.699E+05
NOVEMBER	1.599E+00	-	-	-	-	1.599E+05
DECEMBER	1.000E+00	-	-	-	-	1.699E+05
TOTAL	1.744E+02		1.500E-04	7.570E-03		3.406E+06

- Less than sensitivity of analysis

**D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986**

420 D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	4.000E+01	-	-	6.819E+09
FEBRUARY	7.000E+01	-	-	6.819E+09
MARCH	5.000E+01	-	-	6.819E+09
APRIL	6.000E+01	-	-	6.819E+09
MAY	4.000E+01	-	-	6.819E+09
JUNE	7.000E+01	-	-	6.819E+09
JULY	1.300E+01	2.000E-06	-	6.819E+09
AUGUST	1.500E+01	-	-	6.819E+09
SEPTEMBER	5.799E+00	-	-	6.819E+09
OCTOBER	5.000E+00	-	-	6.819E+09
NOVEMBER	4.000E+00	-	-	6.819E+09
DECEMBER	1.200E+01	-	-	6.819E+09
TOTAL	3.847E+02	2.000E-06		8.182E+10

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curies Released (Volume in Liters)

421-2D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	7.000E+01	-	-	1.050E+10
FEBRUARY	6.000E+01	-	-	1.050E+10
MARCH	4.000E+01	-	-	1.050E+10
APRIL	5.000E+01	-	-	1.050E+10
MAY	7.000E+01	-	-	1.050E+10
JUNE	6.000E+01	-	-	1.050E+10
JULY	4.300E+01	-	-	1.050E+10
AUGUST	6.000E+00	-	-	1.050E+10
SEPTEMBER	1.259E+01	-	-	1.050E+10
OCTOBER	1.000E+00	-	-	1.050E+10
NOVEMBER	1.000E+00	-	-	1.050E+10
DECEMBER	2.000E+00	-	-	1.050E+10
TOTAL	4.155E+02			1.260E+11

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curles Released (Volume in Liters)

772 D

	<u>Tritium</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	5.000E+01	-	-	9.174E+09
FEBRUARY	4.000E+01	-	-	9.174E+09
MARCH	6.000E+01	-	-	9.174E+09
APRIL	7.000E+01	-	-	9.174E+09
MAY	5.000E+01	-	-	9.174E+09
JUNE	4.000E+01	-	-	9.174E+09
JULY	1.000E+00	2.000E-06	-	9.174E+09
AUGUST	2.000E+00	-	-	9.174E+09
SEPTEMBER	8.399E+00	-	-	9.174E+09
OCTOBER	7.000E+00	-	-	9.174E+09
NOVEMBER	3.000E+00	-	-	9.174E+09
DECEMBER	3.000E+00	-	-	9.174E+09
TOTAL	3.343E+02	2.000E-06		1.100E+11

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986**

Curies Released (Volume in Liters)

F Area (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89,90</u>	<u>Cs-134,137</u>	<u>Unl.D. Beta+Gamma</u>	<u>Unl.D. Alpha</u>	<u>Volume</u>
JANUARY	4.460E-01	1.424E-03	1.709E-03	4.422E-03	7.490E-04	2.847E+08
FEBRUARY	1.989E+00	3.260E-04	9.790E-04	3.201E-03	8.010E-04	3.263E+08
MARCH	5.540E-01	1.625E-03	1.083E-03	1.441E-02	3.154E-03	2.708E+08
APRIL	9.660E-01	9.090E-04	9.090E-04	5.182E-03	1.086E-03	1.816E+08
MAY	1.016E+00	7.270E-04	9.090E-04	4.369E-03	3.350E-04	1.816E+08
JUNE	1.558E+00	3.800E-04	1.140E-03	1.152E-03	2.430E-04	1.900E+08
JULY	1.906E+00	8.070E-04	1.816E-03	3.859E-03	2.580E-04	2.017E+08
AUGUST	1.210E+00	1.650E-04	1.652E-03	1.634E-03	2.350E-04	1.651E+08
SEPTEMBER	1.044E+00	1.276E-03	4.974E-03	-	1.200E-04	1.821E+08
OCTOBER	7.360E-01	7.150E-04	2.144E-03	3.310E-04	3.700E-05	1.428E+08
NOVEMBER	7.960E-01	1.020E-03	2.211E-03	6.110E-04	3.600E-05	1.699E+08
DECEMBER	1.086E+00	1.929E-03	2.571E-03	2.377E-03	1.390E-04	2.142E+08
TOTAL	1.331E+01	1.130E-02	2.149E-02	4.154E-02	7.193E-03	2.511E+09

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curles Released (Volume in Liters)

F Area (Liquid to Seepage Basins)

	<u>Tritium</u>	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	1.247E+03	-	6.000E-03	2.821E-02	8.514E-02
FEBRUARY	7.417E+02	-	5.000E-03	2.568E-01	1.767E-01
MARCH	9.358E+02	-	4.000E-03	1.090E-01	9.884E-02
APRIL	1.003E+03	-	3.000E-03	3.032E-02	7.852E-02
MAY	6.621E+02	-	4.000E-03	7.301E-02	5.112E-02
JUNE	4.853E+02	-	1.000E-03	3.475E-03	5.344E-03
JULY	4.121E+02	2.000E-03	2.100E-02	4.225E-02	6.046E-02
AUGUST	1.268E+03	-	1.600E-02	7.157E-02	1.431E-01
SEPTEMBER	7.999E+02	1.000E-03	3.000E-03	3.984E-02	7.276E-02
OCTOBER	3.575E+02	2.000E-03	3.000E-03	1.459E-01	1.094E-01
NOVEMBER	1.191E+03	-	3.000E-03	8.749E-03	1.747E-02
DECEMBER	1.125E+03	-	1.000E-03	2.076E-02	3.373E-02

TOTAL 1.023E+04 5.000E-03 7.000E-02 8.300E-01 9.327E-01

	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>
JANUARY	1.236E-01	5.200E-01	-	-	1.535E-01
FEBRUARY	5.899E-02	4.108E-01	-	-	1.892E-01
MARCH	1.309E-01	5.960E-01	-	-	1.627E-01
APRIL	3.835E-02	1.539E-01	-	2.212E-04	2.614E-01
MAY	3.764E-02	1.132E-01	2.656E-04	1.651E-04	1.907E-01
JUNE	-	3.598E-04	-	-	1.480E-01
JULY	3.985E-03	5.143E-02	-	3.955E-04	3.090E-01
AUGUST	4.536E-03	5.087E-02	-	6.201E-04	4.165E-01
SEPTEMBER	4.510E-03	9.257E-03	-	2.081E-04	4.525E-01
OCTOBER	-	8.958E-03	-	1.183E-04	2.567E-01
NOVEMBER	-	2.026E-03	-	2.309E-04	2.222E-01
DECEMBER	1.195E-04	2.083E-03	-	-	2.362E-01

TOTAL 4.027E-01 1.919E+00 2.656E-04 1.959E-03 2.999E+00

	<u>Ce-141</u>	<u>Co-144</u>
JANUARY	-	2.198E-03
FEBRUARY	-	9.989E-04
MARCH	-	-
APRIL	-	5.183E-04
MAY	-	-
JUNE	-	-
JULY	1.127E-03	1.509E-01
AUGUST	3.985E-04	1.020E-01
SEPTEMBER	-	2.764E-02
OCTOBER	-	1.853E-02
NOVEMBER	-	3.130E-02
DECEMBER	-	1.187E-02

TOTAL 1.526E-03 3.461E-01

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume In Liters)

F Area (Liquid to Seepage Basins), CONT'D

	<u>Pm-147</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	-	-	8.662E-04	2.921E-03	3.629E-02
FEBRUARY	5.700E-02	-	9.381E-04	3.272E-03	2.687E-01
MARCH	1.280E-01	-	3.815E-04	2.193E-03	7.075E-01
APRIL	8.700E-02	-	5.825E-04	1.439E-03	1.082E-01
MAY	1.000E-03	-	7.542E-04	7.019E-04	2.154E-02
JUNE	7.600E-02	-	9.924E-05	1.150E-04	9.818E-05
JULY	3.900E-02	2.822E-04	7.070E-04	1.913E-03	3.241E-04
AUGUST	5.900E-02	-	2.490E-03	7.785E-03	4.261E-03
SEPTEMBER	2.120E-01	-	7.018E-04	1.858E-03	2.974E-03
OCTOBER	2.300E-02	-	1.107E-03	3.235E-03	7.972E-04
NOVEMBER	-	-	2.270E-04	5.170E-04	4.563E-04
DECEMBER	6.900E-02	-	1.829E-04	2.574E-04	1.346E-03
TOTAL	7.450E-01	2.822E-04	9.038E-03	2.621E-02	1.152E+00

	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	1.559E-03	6.163E-04	4.225E-02	1.801E+07
FEBRUARY	1.648E-03	9.152E-04	2.755E-01	1.669E+07
MARCH	1.574E-03	1.010E-03	7.127E-01	1.662E+07
APRIL	1.332E-03	6.027E-04	1.121E-01	1.706E+07
MAY	7.266E-04	2.815E-04	2.401E-02	1.349E+07
JUNE	1.639E-04	7.697E-05	5.534E-04	8.791E+06
JULY	1.000E-03	1.000E-03	4.161E-03	7.841E+06
AUGUST	1.885E-03	1.065E-03	1.748E-02	2.597E+07
SEPTEMBER	4.809E-04	2.669E-04	6.282E-03	1.382E+07
OCTOBER	6.965E-04	7.192E-04	6.555E-03	8.347E+06
NOVEMBER	2.403E-04	4.166E-04	1.857E-03	6.026E+06
DECEMBER	1.679E-04	4.879E-04	2.442E-03	1.085E+07
TOTAL	1.147E-02	7.460E-03	1.206E+00	1.635E+08

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986**

Curles Released (Volume in Liters)

200-F Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89,90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	-	-	-	1.000E-06	6.800E-05	1.680E-04
FEBRUARY	-	-	-	1.200E-05	7.800E-05	1.970E-04
MARCH	-	-	-	4.500E-05	2.080E-04	6.630E-04
APRIL	-	-	-	1.100E-05	2.670E-04	5.460E-04
MAY	-	-	-	9.000E-05	5.120E-04	1.953E-03
JUNE	-	-	-	2.200E-05	1.910E-04	6.150E-04
JULY	-	-	-	7.000E-06	5.200E-05	1.080E-04
AUGUST	-	-	-	3.400E-05	3.860E-04	1.538E-03
SEPTEMBER	-	-	2.000E-06	2.100E-05	2.950E-04	7.800E-04
OCTOBER	-	-	-	6.000E-06	6.100E-05	1.210E-04
NOVEMBER	-	-	-	7.000E-06	6.100E-05	9.400E-05
DECEMBER	-	-	-	8.000E-06	3.200E-05	8.400E-05
TOTAL			2.000E-06	1.830E-04	2.211E-03	6.870E-03

	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	5.200E-05	3.660E-04	9.000E-06	-	9.000E-06	-
FEBRUARY	5.100E-05	3.810E-04	1.000E-05	-	1.600E-05	-
MARCH	1.110E-04	6.060E-04	1.908E-03	-	4.800E-05	1.100E-05
APRIL	5.300E-05	2.950E-04	3.058E-03	-	2.100E-05	3.000E-06
MAY	7.800E-05	2.330E-04	2.486E-03	-	1.500E-05	1.000E-06
JUNE	2.000E-05	9.000E-05	2.880E-04	-	1.800E-05	-
JULY	-	2.000E-06	4.000E-06	-	3.000E-06	-
AUGUST	1.700E-04	1.799E-03	3.000E-06	-	1.710E-04	-
SEPTEMBER	9.900E-05	1.143E-03	-	-	1.400E-05	-
OCTOBER	7.500E-05	1.236E-03	-	-	1.000E-06	-
NOVEMBER	2.600E-05	8.220E-04	-	-	-	-
DECEMBER	1.200E-05	6.230E-04	-	-	9.000E-06	-
TOTAL	7.470E-04	7.596E-03	7.766E-03		3.250E-04	1.500E-05

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

200-F Stacks, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	9.500E-05	-	6.000E-06	4.000E-06	3.600E-05
FEBRUARY	5.800E-05	-	7.000E-06	3.000E-06	6.300E-05
MARCH	4.800E-04	-	8.000E-06	4.000E-06	1.390E-04
APRIL	7.300E-05	-	3.000E-06	3.000E-06	3.500E-05
MAY	1.180E-04	-	1.400E-05	4.000E-06	4.300E-05
JUNE	6.600E-05	-	5.000E-06	-	1.160E-04
JULY	2.400E-05	-	4.000E-06	-	2.800E-05
AUGUST	7.110E-04	-	5.000E-06	-	5.200E-05
SEPTEMBER	3.480E-04	-	5.000E-06	2.000E-06	1.890E-04
OCTOBER	4.400E-05	-	5.000E-06	-	1.450E-04
NOVEMBER	7.000E-05	-	4.000E-06	2.000E-06	1.630E-04
DECEMBER	9.300E-05	-	3.000E-06	1.000E-06	1.300E-04
TOTAL	2.180E-03		6.900E-05	2.300E-05	1.139E-03

	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.200E-05	6.000E-06	6.000E-06	-	3.421E+11
FEBRUARY	1.800E-05	4.000E-06	1.400E-05	-	3.421E+11
MARCH	3.800E-05	1.700E-05	2.100E-05	-	4.276E+11
APRIL	1.200E-05	3.000E-06	9.000E-06	-	3.421E+11
MAY	1.900E-05	9.000E-06	1.000E-05	-	3.421E+11
JUNE	2.600E-05	1.500E-05	1.100E-05	-	4.276E+11
JULY	2.700E-05	1.500E-05	1.200E-05	-	3.421E+11
AUGUST	2.000E-05	1.100E-05	9.000E-06	-	4.276E+11
SEPTEMBER	4.200E-05	1.300E-05	2.900E-05	-	3.421E+11
OCTOBER	4.700E-05	3.300E-05	1.400E-05	-	3.421E+11
NOVEMBER	3.700E-05	1.000E-05	2.700E-05	-	4.276E+11
DECEMBER	5.100E-05	6.000E-06	4.500E-05	-	3.421E+11
TOTAL	3.490E-04	1.420E-04	2.070E-04		4.447E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

247-F Naval Fuel Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY						
FEBRUARY						
MARCH						
APRIL						
MAY						
JUNE						
JULY						
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	-	-	-

TOTAL

<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
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JANUARY				
FEBRUARY				
MARCH				
APRIL				
MAY				
JUNE				
JULY				
AUGUST				
SEPTEMBER				
OCTOBER				
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-

TOTAL

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

247-F Naval Fuel Stacks. CONT'D.

Ce-144 Un I.D. Beta+Gamma Am-241,243 Cm-242,244 U-235,238

JANUARY					
FEBRUARY					
MARCH					
APRI					
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER	-	-	-	-	1.050E-04
DECEMBER	-	-	-	-	-
TOTAL					1.050E-04
	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>

JANUARY					
FEBUARY					
MARCH					
APRIL					
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER	-	-	-	-	2.880E+09
DECEMBER	-	-	-	-	2.880E+09
TOTAL	-	-	-	-	5.760E+09

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

772-F Stack

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-	-
FEBRUARY	-	-	-	1.000E-06	2.000E-06	2.000E-06
MARCH	-	-	-	-	-	-
APRIL	-	-	-	-	-	-
MAY	-	-	5.000E-06	-	1.000E-06	-
JUNE	-	-	-	-	1.000E-06	-
JULY	-	-	-	-	4.000E-06	-
AUGUST	-	-	-	-	-	-
SEPTEMBER	-	-	-	-	1.000E-06	-
OCTOBER	-	-	-	1.000E-06	1.000E-06	-
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	2.000E-06	1.000E-06	-
TOTAL			5.000E-06	4.000E-06	1.100E-05	2.000E-06

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-	-
FEBRUARY	8.000E-06	-	-	2.000E-06	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	1.000E-06	2.000E-06	-
AUGUST	-	-	1.000E-06	2.000E-06	-
SEPTEMBER	-	-	1.000E-06	3.000E-06	-
OCTOBER	1.000E-06	-	-	3.000E-06	-
NOVEMBER	-	-	1.000E-06	1.300E-05	-
DECEMBER	1.400E-05	-	2.200E-05	9.000E-05	-
TOTAL	2.300E-05		2.600E-05	1.150E-04	

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

772-F Stack, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>
JANUARY	-	7.500E-05	-	-
FEBRUARY	-	6.000E-06	-	-
MARCH	-	-	-	-
APRIL	-	-	-	-
MAY	4.000E-06	-	-	-
JUNE	4.000E-06	-	-	-
JULY	1.200E-05	-	-	-
AUGUST	-	-	-	-
SEPTEMBER	1.400E-05	-	-	-
OCTOBER	1.200E-05	-	-	-
NOVEMBER	3.000E-06	-	-	-
DECEMBER	1.620E-04	-	-	-
TOTAL	2.110E-04	8.100E-05		

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	2.500E-05	1.221E+11
FEBRUARY	4.000E-06	1.222E+11
MARCH	1.000E-06	1.527E+11
APRIL	-	1.222E+11
MAY	4.000E-06	1.222E+11
JUNE	7.000E-06	1.222E+11
JULY	3.000E-06	1.222E+11
AUGUST	-	1.222E+11
SEPTEMBER	2.000E-06	1.222E+11
OCTOBER	-	1.222E+11
NOVEMBER	2.000E-06	1.222E+11
DECEMBER	3.000E-06	1.222E+11
TOTAL	5.100E-05	1.497E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curles Released (Volume in Liters)

F & H Area Waste Tanks Exhaust

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-	-
FEBRUARY	-	-	-	-	-	-
MARCH	-	-	-	2.000E-06	-	-
APRIL	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUNE	-	-	-	-	-	-
JULY	-	-	-	-	-	-
AUGUST	-	-	-	-	-	-
SEPTEMBER	-	-	-	-	-	-
OCTOBER	-	-	-	-	-	-
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	-	-	-

TOTAL 2.000E-06

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	2.420E-04	-
FEBRUARY	-	-	-	1.600E-05	-
MARCH	-	-	-	4.900E-05	-
APRIL	-	-	-	2.400E-05	-
MAY	-	-	-	2.600E-05	-
JUNE	-	-	-	1.170E-04	-
JULY	-	-	2.000E-06	1.000E-04	-
AUGUST	-	-	1.000E-06	1.480E-04	-
SEPTEMBER	-	-	1.000E-06	8.200E-05	-
OCTOBER	-	-	4.000E-06	1.700E-04	-
NOVEMBER	-	-	1.000E-06	8.000E-05	-
DECEMBER	-	-	-	3.400E-05	-
TOTAL			9.000E-06	1.088E-03	

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curles Released (Volume in Liters)

F & H Area Waste Tanks Exhaust. CONT'D.

	<u>Ce-144</u>	<u>Un I.D.Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>
JANUARY	-	-	-	-
FEBRUARY	-	-	-	-
MARCH	1.000E-06	2.000E-06	-	-
APRIL	-	-	-	-
MAY	-	-	-	-
JUNE	-	-	-	-
JULY	-	-	-	-
AUGUST	3.000E-06	-	-	-
SEPTEMBER	4.000E-06	-	-	-
OCTOBER	6.000E-06	-	-	-
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-
TOTAL	1.400E-05	2.000E-06		

	<u>Un I.D.Alpha</u>	<u>Volume</u>
JANUARY	-	-
FEBRUARY	-	-
MARCH	-	8.200E+04
APRIL	-	9.900E+04
MAY	-	9.900E+04
JUNE	-	9.900E+04
JULY	-	1.000E+05
AUGUST	2.000E-06	1.000E+05
SEPTEMBER	-	1.000E+05
OCTOBER	-	1.000E+05
NOVEMBER	-	1.000E+05
DECEMBER	-	9.900E+04
TOTAL	2.000E-06	9.800E+05

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

H Area (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	2.781E+00	2.910E-04	1.308E-03	1.221E-03	4.000E-05	7.266E+07
FEBRUARY	1.010E+00	7.440E-04	9.670E-04	1.650E-03	8.500E-05	7.437E+07
MARCH	1.903E+00	2.240E-04	1.118E-03	1.102E-03	1.550E-04	1.117E+08
APRIL	6.972E+00	2.840E-04	1.324E-03	2.510E-04	9.800E-05	9.459E+07
MAY	5.076E+00	-	5.380E-04	7.220E-04	6.800E-05	8.964E+07
JUNE	8.740E+00	1.720E-04	9.440E-04	3.720E-04	1.500E-04	8.582E+07
JULY	6.346E+00	-	7.630E-04	1.173E-03	7.000E-05	9.541E+07
AUGUST	4.870E+00	-	8.040E-04	3.460E-04	8.000E-05	1.004E+08
SEPTEMBER	3.701E+00	6.180E-04	2.475E-03	-	5.600E-05	8.840E+07
OCTOBER	2.585E+00	2.500E-05	3.430E-04	4.100E-05	1.100E-05	2.449E+07
NOVEMBER	2.802E+00	1.410E-04	3.290E-04	3.280E-04	2.600E-05	4.699E+07
DECEMBER	8.463E+00	1.010E-04	9.190E-04	1.009E-03	9.600E-05	1.013E+08
TOTAL	5.526E+01	2.600E-03	1.183E-02	8.215E-03	9.350E-04	9.861E+08

Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

H Area (Liquid to Seepage Basins)

	<u>Tritium</u>	<u>Cr-51</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zn-65</u>	<u>Sr-89</u>
JANUARY	2.230E+03	2.014E-01	1.070E-03	4.686E-02	-	-
FEBRUARY	3.783E+03	2.974E-02	-	2.900E-03	6.991E-04	-
MARCH	2.218E+03	-	-	5.640E-05	-	-
APRIL	3.247E+03	-	-	1.014E-04	4.134E-04	-
MAY	2.479E+03	6.279E-02	2.838E-04	1.397E-02	1.993E-03	-
JUNE	8.365E+02	1.301E-01	8.927E-04	7.312E-03	2.587E-03	-
JULY	2.076E+03	4.054E-03	-	3.151E-03	2.714E-03	1.000E-03
AUGUST	4.413E+03	-	-	8.924E-04	1.223E-03	-
SEPTEMBER	2.706E+03	-	-	3.797E-02	2.777E-02	-
OCTOBER	3.897E+02	8.498E-03	-	1.106E-02	1.159E-02	4.000E-03
NOVEMBER	9.760E+02	-	-	2.773E-03	2.270E-03	-
DECEMBER	1.318E+03	-	-	9.772E-04	6.750E-04	-
TOTAL	2.667E+04	4.366E-01	2.247E-03	1.280E-01	5.194E-02	5.000E-03
	<u>Sr-90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>	<u>Ru-106</u>	<u>Sb-124,125</u>
JANUARY	6.000E-03	2.821E-02	9.514E-02	-	3.567E+00	1.860E-03
FEBRUARY	5.000E-03	2.568E-01	1.767E-01	5.489E-04	3.764E-01	-
MARCH	4.000E-03	1.090E-01	9.884E-02	-	5.993E-02	-
APRIL	3.000E-03	3.032E-02	7.852E-02	-	2.637E-02	-
MAY	4.000E-03	7.301E-02	5.112E-02	-	4.607E-01	2.608E-03
JUNE	1.000E-03	3.475E-03	5.344E-03	1.912E-03	5.011E-01	-
JULY	2.100E-02	4.225E-02	6.046E-02	-	1.365E-01	-
AUGUST	1.600E-02	7.157E-02	1.431E-01	-	7.388E-01	1.494E-03
SEPTEMBER	3.000E-03	3.984E-02	7.276E-02	-	7.671E-02	-
OCTOBER	3.000E-03	1.459E-01	1.094E-01	-	1.021E-01	-
NOVEMBER	3.000E-03	8.749E-03	1.747E-02	-	7.767E-02	-
DECEMBER	1.000E-03	2.076E-02	3.373E-02	-	3.627E-02	-
TOTAL	7.000E-02	8.300E-01	9.327E-01	2.461E-03	6.160E+00	5.964E-03
	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>	
JANUARY	-	1.405E-02	8.727E-01	-	1.864E-03	
FEBRUARY	-	6.188E-03	3.077E-01	-	4.982E-03	
MARCH	-	3.145E-03	2.875E-01	-	-	
APRIL	-	3.243E-03	2.296E-01	-	1.817E-03	
MAY	-	8.865E-03	5.870E-01	-	-	
JUNE	-	1.210E-02	7.571E-01	-	-	
JULY	-	1.430E-02	1.007E+00	-	-	
AUGUST	-	8.134E-03	6.514E-01	-	-	
SEPTEMBER	-	9.155E-03	6.419E-01	-	4.348E-02	
OCTOBER	-	8.248E-03	5.636E-01	-	1.977E-03	
NOVEMBER	-	2.951E-02	1.790E+00	-	-	
DECEMBER	-	7.465E-03	5.582E-01	-	-	
TOTAL		1.244E-01	8.254E+00		5.412E-02	

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

H Area (Liquid to Seepage Basins), CONT'D.

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>	<u>Pu-238</u>
JANUARY	-	-	3.192E-04	1.141E-05	2.311E-04	3.069E-04
FEBRUARY	1.820E-01	-	6.412E-04	5.179E-06	1.904E-04	3.901E-04
MARCH	2.000E-03	-	8.383E-05	3.420E-06	1.095E-04	8.615E-05
APRIL	2.900E-02	-	1.439E-04	1.138E-05	4.438E-04	3.548E-04
MAY	1.110E-01	-	2.259E-04	4.329E-05	7.793E-05	2.788E-04
JUNE	6.400E-02	-	1.463E-04	6.665E-05	1.899E-04	1.668E-04
JULY	1.110E-01	-	8.459E-05	6.845E-05	2.511E-05	1.281E-04
AUGUST	2.400E-02	-	2.451E-04	3.738E-05	3.592E-04	5.301E-03
SEPTEMBER	4.100E-02	-	1.676E-04	3.734E-05	3.795E-04	5.235E-03
OCTOBER	2.200E-02	-	2.400E-04	8.079E-05	3.776E-05	2.899E-04
NOVEMBER	-	-	3.121E-04	2.231E-04	7.340E-06	8.879E-04
DECEMBER	5.300E-02	-	2.405E-04	1.713E-04	3.875E-05	1.359E-04
TOTAL	6.390E-01		2.850E-03	7.598E-04	2.090E-03	1.356E-02

	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.655E-05	1.591E-03	1.993E+07
FEBRUARY	1.035E-05	1.237E-03	1.704E+07
MARCH	-	2.829E-04	1.372E+07
APRIL	3.710E-06	9.578E-04	1.498E+07
MAY	7.233E-06	6.331E-04	1.897E+07
JUNE	1.789E-04	2.207E-03	1.872E+07
JULY	1.451E-05	3.208E-04	1.959E+07
AUGUST	9.456E-05	6.038E-03	2.085E+07
SEPTEMBER	1.223E-04	5.942E-03	1.411E+07
OCTOBER	1.438E-04	7.924E-04	2.252E+07
NOVEMBER	3.276E-05	1.463E-03	1.478E+07
DECEMBER	5.139E-05	6.379E-04	1.706E+07
TOTAL	6.762E-04	2.210E-02	2.123E+08

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

200-H Stack

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	1.960E+04	-	-	2.400E-05	5.660E-04	3.440E-04
FEBRUARY	1.745E+04	-	-	1.400E-05	1.800E-04	1.970E-04
MARCH	2.260E+04	-	-	2.500E-05	9.400E-05	1.210E-04
APRIL	2.125E+04	-	-	1.200E-05	1.390E-04	1.290E-04
MAY	3.360E+04	-	-	2.100E-05	3.260E-04	2.320E-04
JUNE	2.307E+04	-	-	6.500E-05	4.700E-04	5.120E-04
JULY	2.472E+04	-	-	2.010E-04	1.560E-04	2.690E-04
AUGUST	1.665E+04	-	1.000E-06	2.410E-04	6.100E-05	1.620E-04
SEPTEMBER	1.445E+04	-	-	3.400E-05	6.400E-05	4.400E-05
OCTOBER	1.978E+04	-	-	1.000E-05	8.000E-06	4.200E-05
NOVEMBER	1.830E+04	-	-	7.800E-05	3.000E-05	8.500E-05
DECEMBER	1.788E+04	-	-	1.200E-05	6.400E-05	1.660E-04
TOTAL	2.493E+05		1.000E-06	7.370E-04	2.158E-03	2.303E-03

	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	9.700E-05	5.850E-04	-	4.000E-06	2.200E-05	-
FEBRUARY	5.100E-05	2.672E-03	-	7.000E-06	2.700E-05	-
MARCH	2.200E-05	9.810E-04	-	1.200E-05	3.900E-05	-
APRIL	7.200E-05	1.099E-03	-	1.500E-05	3.500E-05	-
MAY	1.860E-04	1.707E-03	-	2.400E-05	6.000E-05	-
JUNE	5.220E-04	6.914E-03	2.000E-06	1.900E-05	2.260E-04	-
JULY	7.010E-04	1.145E-02	-	2.580E-04	4.390E-04	4.000E-06
AUGUST	7.240E-04	2.131E-02	-	2.720E-04	4.220E-04	-
SEPTEMBER	2.770E-04	2.240E-03	-	8.000E-06	2.700E-05	-
OCTOBER	9.000E-06	2.820E-04	-	-	3.000E-06	-
NOVEMBER	1.700E-05	5.730E-04	-	3.600E-05	9.500E-05	-
DECEMBER	7.300E-05	1.538E-03	-	4.000E-06	2.100E-05	-
TOTAL	2.751E-03	5.136E-02	2.000E-06	6.590E-04	1.416E-03	4.000E-06

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986**

Curles Released (Volume in Liters)

200-H Stack, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	2.310E-04	-	8.000E-06	-	1.300E-05
FEBRUARY	1.640E-04	-	1.800E-05	-	1.300E-05
MARCH	2.060E-04	-	6.000E-06	-	2.200E-05
APRIL	2.580E-04	-	5.000E-06	1.000E-06	2.800E-05
MAY	5.500E-04	-	8.000E-06	-	1.100E-05
JUNE	4.660E-04	-	5.000E-06	1.000E-06	1.400E-05
JULY	4.214E-03	-	6.000E-06	2.000E-06	1.900E-05
AUGUST	1.851E-03	-	1.000E-05	1.000E-06	9.200E-05
SEPTEMBER	2.300E-04	-	4.000E-06	-	4.000E-06
OCTOBER	4.200E-05	-	2.000E-06	-	2.000E-06
NOVEMBER	1.850E-04	-	1.000E-05	-	4.000E-06
DECEMBER	1.990E-04	-	3.000E-06	-	5.000E-06
TOTAL	8.596E-03		8.500E-05	5.000E-06	2.270E-04

	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	5.000E-06	4.000E-06	1.000E-06	-	2.283E+11
FEBRUARY	5.000E-05	4.900E-05	1.000E-06	-	2.283E+11
MARCH	8.300E-05	6.800E-05	5.000E-06	-	2.854E+11
APRIL	8.700E-05	8.200E-05	5.000E-06	-	2.283E+11
MAY	1.140E-04	1.100E-04	4.000E-06	-	2.283E+11
JUNE	1.131E-03	1.121E-03	1.000E-05	-	2.854E+11
JULY	4.500E-05	4.200E-05	3.000E-06	-	2.283E+11
AUGUST	9.200E-05	8.800E-05	4.000E-06	-	2.854E+11
SEPTEMBER	9.000E-05	8.500E-05	5.000E-06	-	2.283E+11
OCTOBER	4.500E-05	4.200E-05	3.000E-06	-	2.283E+11
NOVEMBER	1.310E-04	1.290E-04	2.000E-06	-	2.854E+11
DECEMBER	5.800E-05	5.600E-05	2.000E-06	-	2.283E+11
TOTAL	1.931E-03	1.876E-03	4.500E-05		2.968E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

230-H Incinerator Stack

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-	-
FEBRUARY	-	-	-	-	-	-
MARCH	-	-	-	-	-	-
APRIL	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUNE	-	-	-	-	-	-
JULY	-	-	-	-	-	-
AUGUST	-	-	-	-	-	-
SEPTEMBER	-	-	-	-	-	-
OCTOBER	-	-	-	-	-	-
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	1.000E-06	-
FEBRUARY	-	-	1.610E-07	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	2.200E-08	-
MAY	-	-	-	3.100E-08	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	5.000E-09	-
OCTOBER	-	-	-	-	-
NOVEMBER	1.000E-06	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	1.000E-06	-	1.610E-07	1.058E-06	-

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curles Released (Volume in Liters)

230-H Incinerator Stack, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>
JANUARY	-	4.000E-08	-	-
FEBRUARY	-	9.100E-08	-	-
MARCH	-	-	-	-
APRIL	-	-	-	-
MAY	-	-	-	-
JUNE	-	-	-	-
JULY	-	-	-	-
AUGUST	-	-	-	-
SEPTEMBER	-	-	-	-
OCTOBER	-	-	-	-
NOVEMBER	7.000E-06	-	-	-
DECEMBER	-	-	-	-
TOTAL	7.000E-06	1.310E-07		

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	6.847E+10
FEBRUARY	-	1.199E+10
MARCH	-	2.865E+09
APRIL	-	1.499E+10
MAY	-	1.499E+10
JUNE	-	1.499E+10
JULY	-	1.499E+10
AUGUST	-	1.499E+10
SEPTEMBER	-	1.499E+10
OCTOBER	-	1.499E+10
NOVEMBER	-	1.499E+10
DECEMBER	-	1.499E+10
TOTAL		2.182E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

244-H Ruboff Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-	-
FEBRUARY	-	-	-	-	-	-
MARCH	-	-	-	-	-	-
APRIL	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUNE	-	-	-	-	-	-
JULY	-	-	-	-	-	-
AUGUST	-	-	-	-	-	-
SEPTEMBER	-	-	-	-	-	-
OCTOBER	-	-	-	-	-	-
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	1.000E-06	-	-	-
FEBRUARY	-	7.000E-06	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	5.000E-06	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	1.000E-06	-	-	-
TOTAL		1.400E-05			

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

244-H Ruboff Stacks. CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>
JANUARY	-	-	-	-
FEBRUARY	-	-	-	-
MARCH	-	-	-	-
APRIL	-	-	-	-
MAY	-	-	-	-
JUNE	-	-	-	-
JULY	-	1.000E-06	-	-
AUGUST	-	-	-	-
SEPTEMBER	-	-	-	-
OCTOBER	-	-	-	-
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-
TOTAL		1.000E-06		

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	1.597E+10
FEBRUARY	-	1.656E+10
MARCH	-	1.656E+10
APRIL	-	1.656E+10
MAY	-	1.656E+10
JUNE	-	1.656E+10
JULY	-	1.656E+10
AUGUST	-	1.656E+10
SEPTEMBER	-	1.656E+10
OCTOBER	-	1.656E+10
NOVEMBER	-	1.656E+10
DECEMBER	-	1.656E+10
TOTAL		1.823E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

K-Area Heat Exchanger Cooling Water (Liquid to Stream)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	4.928E+01	1.831E+10
FEBRUARY	2.427E+01	1.831E+10
MARCH	1.391E+02	1.659E+10
APRIL	1.907E+02	2.987E+10
MAY	2.222E+01	2.655E+10
JUNE	2.999E+02	2.655E+10
JULY	9.642E+01	2.255E+10
AUGUST	7.826E+01	1.937E+10
SEPTEMBER	3.542E+02	3.139E+10
OCTOBER	2.200E+02	2.288E+10
NOVEMBER	3.600E+02	2.655E+10
DECEMBER	2.462E+02	3.319E+10
TOTAL	2.081E+03	2.922E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

K-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D.Beta+Gamma</u>
JANUARY	4.426E+00	-	-	-	-
FEBRUARY	6.676E+00	-	-	-	-
MARCH	4.153E+00	-	-	-	-
APRIL	2.996E+01	-	-	-	-
MAY	6.823E+00	-	-	-	-
JUNE	7.075E+00	-	-	-	-
JULY	7.046E+00	-	-	-	-
AUGUST	3.544E+00	-	-	-	-
SEPTMBER	1.844E+01	-	-	-	-
OCTOBER	2.288E+01	-	5.460E-03	-	1.680E-03
NOVEMBER	1.190E+01	-	-	-	-
DECEMBER	7.089E+00	-	-	-	-
TOTAL	1.300E+00		5.460E-03		1.680E-03

	<u>Un I.D.Alpha</u>	<u>Volume</u>
JANUARY	-	4.219E+08
FEBRUARY	-	3.799E+08
MARCH	6.700E-05	4.199E+08
APRIL	6.700E-05	4.089E+08
MAY	-	4.219E+08
JUNE	-	4.089E+08
JULY	-	4.219E+08
AUGUST	-	4.219E+08
SEPTMBER	-	4.089E+08
OCTOBER	-	4.199E+08
NOVEMBER	-	4.089E+08
DECEMBER	-	4.219E+09
TOTAL	1.340E-04	4.965E+09

- Less than sensitivity for analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

K Area (Purges to Containment Basin)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>
JANUARY	7.193E+01	-	-	-	2.629E-03
FEBRUARY	1.968E+02	-	8.800E-05	4.199E-03	5.269E-04
MARCH					
APRIL	1.583E+02	-	-	1.579E-04	1.228E-05
MAY	1.024E+03	-	1.006E-03	7.441E-03	5.980E-05
JUNE	3.863E+01	-	2.817E-05	3.084E-04	6.095E-06
JULY					
AUGUST	6.280E+02	-	9.216E-04	2.215E-03	-
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	2.118E+03		2.044E-03	1.432E-02	3.234E-03
	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103,106</u>	
JANUARY	-	-	1.708E-04	9.090E-05	
FEBRUARY					
MARCH	-	-	-	-	
APRIL	-	-	4.254E-04	2.702E-05	
MAY	-	-	9.880E-05	3.666E-04	
JUNE	-	-	1.311E-04	6.900E-06	
JULY					
AUGUST	4.180E-04	-	6.249E-04	-	
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	4.180E-04		1.451E-03	4.914E-04	

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

K Area (Purges to Containment Basin), CONT'D.

	<u>Sb-124,125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141,144</u>
JANUARY	-	-	-	1.139E-04	-
FEBRUARY	5.401E-04	2.180E-03	-	1.050E-03	-
MARCH	-	-	-	-	-
APRIL	2.049E-04	-	-	-	-
MAY	7.774E-04	2.293E-03	2.080E-05	3.902E-03	5.883E-03
JUNE	-	-	2.530E-06	6.187E-05	1.892E-04
JULY	-	-	-	-	-
AUGUST	7.315E-04	-	2.382E-04	4.974E-03	4.598E-04
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	2.254E-03	4.473E-03	2.615E-04	1.010E-02	6.532E-03

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	2.890E-03	-	1.889E+05
FEBRUARY	-	7.535E-03	3.465E-04	1.099E+06
MARCH	-	-	-	-
APRIL	6.177E-05	8.694E-04	5.931E-05	3.509E+05
MAY	3.016E-04	1.745E-02	6.344E-04	2.599E+06
JUNE	6.785E-05	7.378E-04	7.245E-06	1.149E+05
JULY	-	-	-	-
AUGUST	5.287E-04	5.900E-03	3.762E-05	2.089E+06
SEPTEMBER	-	-	-	-
OCTOBER	-	-	-	-
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-
TOTAL	9.600E-04	3.540E-02	1.085E-03	6.444E+06

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

K Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	3.350E+03	4.450E+02	1.000E+01	1.500E+01	1.700E+01
FEBRUARY	1.430E+03	-	-	-	-
MARCH	2.015E+03	1.344E+03	2.900E+01	4.600E+01	5.000E+01
APRIL	4.235E+03	1.507E+03	3.300E+01	5.100E+01	5.600E+01
MAY	4.932E+03	2.115E+03	4.600E+01	7.100E+01	7.900E+01
JUNE	4.830E+03	1.952E+03	4.200E+01	6.700E+01	7.300E+01
JULY	4.624E+03	1.472E+03	3.200E+01	5.000E+01	5.500E+01
AUGUST	3.544E+03	5.390E+02	1.200E+01	1.800E+01	2.000E+01
SEPTEMBER	4.176E+03	2.174E+03	4.700E+01	7.400E+01	8.100E+01
OCTOBER	3.460E+03	2.243E+03	4.800E+01	7.700E+01	8.300E+01
NOVEMBER	2.336E+03	2.525E+03	5.500E+01	8.600E+01	9.400E+01
DECEMBER	4.450E+03	-	-	-	-
TOTAL	4.338E+04	1.631E+04	3.540E+02	5.550E+02	6.080E+02
	<u>Total-Kr</u>	<u>Stack I-131</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	4.200E+01	2.580E-04	1.230E-04	1.560E+02	5.000E+00
FEBRUARY	-	8.300E-05	6.000E-05	-	-
MARCH	1.250E+02	-	-	4.700E+02	1.400E+01
APRIL	1.400E+02	2.200E-05	1.330E-04	5.270E+02	1.500E+01
MAY	1.960E+02	2.900E-05	6.000E-05	7.400E+02	2.200E+01
JUNE	1.820E+02	1.160E-04	5.370E-04	6.830E+02	2.000E+01
JULY	1.370E+02	6.000E-05	1.140E-04	5.150E+02	1.500E+01
AUGUST	5.000E+01	1.930E-04	7.200E-05	1.890E+02	6.000E+00
SEPTEMBER	2.020E+02	-	1.000E-05	7.610E+02	2.200E+01
OCTOBER	2.080E+02	2.900E-05	2.800E-05	7.850E+02	2.300E+01
NOVEMBER	2.350E+02	1.800E-05	3.500E-05	8.840E+02	2.600E+01
DECEMBER	-	2.335E-03	8.130E-04	-	-
TOTAL	1.517E+03	3.143E-03	1.985E-03	5.710E+03	1.680E+02
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	1.610E+02	2.000E-05	2.400E-07	1.993E+11	9.175E+10
FEBRUARY	-	2.000E-05	1.400E-07	2.398E+11	9.175E+10
MARCH	4.840E+02	2.200E-05	4.700E-07	2.005E+11	1.146E+11
APRIL	5.420E+02	1.900E-05	6.000E-07	1.495E+11	9.175E+10
MAY	7.620E+02	2.600E-05	2.000E-07	1.175E+11	9.175E+10
JUNE	7.030E+02	2.900E-05	3.100E-07	1.894E+11	1.146E+11
JULY	5.300E+02	1.700E-05	2.000E-07	1.594E+11	9.175E+10
AUGUST	1.950E+02	2.000E-05	1.500E-07	1.869E+11	9.175E+10
SEPTEMBER	7.830E+02	1.700E-05	1.800E-07	1.928E+11	1.146E+11
OCTOBER	8.080E+02	1.400E-05	1.900E-07	1.336E+11	9.175E+10
NOVEMBER	9.100E+02	1.000E-05	3.700E-07	1.203E+11	9.175E+10
DECEMBER	-	2.410E-04	7.800E-07	2.579E+11	1.146E+11
TOTAL	5.878E+03	4.550E-04	3.830E-06	2.147E+12	1.192E+12

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

L-Area Heat Exchanger Cooling Water (Liquid to L Lake)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	4.990E+01	2.619E+10
FEBRUARY	1.342E+01	2.619E+10
MARCH	1.235E+01	1.209E+10
APRIL	2.262E+01	3.017E+10
MAY	1.210E+01	1.387E+10
JUNE	6.245E+00	1.379E+10
JULY	1.121E+00	5.737E+09
AUGUST	3.549E+00	4.579E+09
SEPTEMBER	5.671E+00	9.484E+09
OCTOBER	4.247E+00	4.579E+09
NOVEMBER	5.952E+00	4.579E+09
DECEMBER	4.843E+01	2.708E+10
TOTAL	1.856E+02	1.784E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

L-Area Process Sewer (Liquid to L Lake)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	4.760E-01	-	-	-	-
FEBRUARY	5.990E-01	-	-	-	-
MARCH	8.400E-02	-	-	-	-
APRIL	7.970E-01	-	-	-	-
MAY	4.570E-01	-	-	-	-
JUNE	9.720E-01	-	-	-	-
JULY	2.788E+00	-	-	-	-
AUGUST	8.090E-01	-	-	-	-
SEPTEMBER	8.630E-01	-	-	-	-
OCTOBER	2.466E+00	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	5.850E-01	-	-	-	-
TOTAL	1.089E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	6.899E+08
FEBRUARY	-	6.239E+08
MARCH	-	1.269E+08
APRIL	-	6.699E+08
MAY	-	6.349E+08
JUNE	-	6.569E+08
JULY	-	6.769E+08
AUGUST	-	6.739E+08
SEPTEMBER	-	6.539E+08
OCTOBER	-	6.739E+08
NOVEMBER	-	6.539E+08
DECEMBER	-	6.799E+08
TOTAL		7.415E+09

- Less than sensitivity for analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

L Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>
JANUARY					
FEBUARY					
MARCH	1.531E+00	-	2.064E-04	1.230E-03	-
APRIL					
MAY					
JUNE	2.456E+00	-	3.595E-03	6.360E-04	-
JULY	5.967E+00	-	7.179E-04	3.336E-05	3.872E-06
AUGUST	2.496E+00	-	9.011E-03	1.909E-03	9.988E-07
SEPTEMBER					
OCTOBER					
NOVEMBER	4.772E+00	-	1.759E-03	1.991E-03	-
DECEMBER	6.961E+00	-	3.105E-03	2.492E-04	-
TOTAL	2.418E+01		1.839E-02	6.050E-03	4.871E-06
	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103,106</u>	
JANUARY					
FEBUARY					
MARCH	-	-	-	-	
APRIL					
MAY					
JUNE	-	-	-	2.917E-05	
JULY	-	-	-	-	
AUGUST	-	-	-	-	
SEPTEMBER					
OCTOBER					
NOVEMBER	-	-	-	-	
DECEMBER	-	-	-	-	
TOTAL				2.917E-05	

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

L Area (Purges to Seepage Basins). CONT'D.

	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141,144</u>
JANUARY				
FEBUARY				
MARCH	-	-	-	-
APRIL				
MAY				
JUNE	-	1.430E-06	1.895E-05	-
JULY	-	-	-	-
AUGUST	-	-	6.083E-06	-
SEPTEMBER				
OCTOBER				
NOVEMBER	-	3.231E-05	9.591E-05	-
DECEMBER	-	3.422E-05	2.721E-04	-
TOTAL		6.797E-05	3.931E-04	
	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY				
FEBUARY				
MARCH	1.998E-06	1.470E-03	2.109E-06	1.109E+05
APRIL				
MAY				
JUNE	2.165E-03	6.447E-03	4.768E-07	1.296E+05
JULY	1.052E-04	8.604E-04	3.972E-07	9.929E+04
AUGUST	1.966E-04	1.112E-02	4.086E-07	2.269E+04
SEPTEMBER				
OCTOBER				
NOVEMBER	-	3.751E-03	5.865E-06	1.149E+05
DECEMBER	3.453E-04	3.700E-03	2.403E-06	1.641E+05
TOTAL	2.814E-03	2.734E-02	1.166E-05	6.418E+05

- Less than sensitivity of analysis

**REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986**

Curles Released (Volume in Liters)

L Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	4.040E+02	1.997E+03	2.600E+01	2.90JE+01	5.700E+01
FEBRUARY	3.590E+02	8.990E+02	1.200E+01	1.300E+01	2.500E+01
MARCH	6.590E+02	1.752E+03	2.300E+01	2.600E+01	5.000E+01
APRIL	3.240E+02	2.433E+03	3.100E+01	3.600E+01	6.900E+01
MAY	2.790E+02	2.179E+03	2.800E+01	3.200E+01	6.200E+01
JUNE	3.680E+02	2.333E+03	3.000E+01	3.400E+01	6.600E+01
JULY	1.530E+02	-	-	-	-
AUGUST	2.950E+02	-	-	-	-
SEPTEMBER	2.239E+03	-	-	-	-
OCTOBER	1.330E+03	2.000E+00	-	-	-
NOVEMBER	1.210E+02	2.000E+00	-	-	-
DECEMBER	1.490E+02	2.170E+03	2.800E+01	3.200E+01	6.100E+01
TOTAL	6.680E+03	1.376E+04	1.780E+02	2.020E+02	3.900E+02

	<u>Total Kr</u>	<u>Stack I-131</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	1.120E+02	-	-	5.700E+01	4.200E+01
FEBRUARY	5.000E+01	4.000E-06	-	2.600E+01	1.900E+01
MARCH	9.900E+01	-	-	5.000E+01	3.700E+01
APRIL	1.360E+02	-	-	7.000E+01	5.100E+01
MAY	1.220E+02	3.000E-06	-	6.300E+01	4.600E+01
JUNE	1.300E+02	-	-	6.700E+01	4.900E+01
JULY	-	-	-	-	-
AUGUST	-	6.800E-05	9.000E-06	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	1.210E+02	-	-	6.200E+01	4.600E+01
TOTAL	7.700E+02	7.500E-05	9.000E-06	3.950E+02	2.900E+02

	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	9.900E+01	1.000E-06	4.000E-08	1.577E+11	
FEBRUARY	4.500E+01	1.000E-06	2.000E-08	1.161E+11	
MARCH	8.700E+01	1.000E-06	3.000E-08	3.047E+11	
APRIL	1.210E+02	1.000E-06	7.000E-08	1.237E+11	
MAY	1.090E+02	1.000E-06	3.000E-08	1.263E+11	
JUNE	1.160E+02	-	5.000E-08	1.189E+11	
JULY	-	2.000E-06	4.000E-08	1.563E+11	
AUGUST	-	1.000E-06	5.000E-09	1.212E+11	9.911E+09
SEPTEMBER	-	4.000E-06	7.000E-08	1.767E+11	1.954E+10
OCTOBER	-	-	3.000E-08	1.707E+11	6.881E+10
NOVEMBER	-	1.600E-05	1.210E-07	2.517E+11	8.835E+10
DECEMBER	1.080E+02	5.000E-06	1.160E-07	7.787E+10	7.334E+10
TOTAL	6.850E+02	3.300E-05	6.220E-07	1.902E+12	2.599E+11

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

M Area (Liquid to Stream)

	<u>U-235,238</u>	<u>Volume</u>
JANUARY	1.922E-03	1.019E+06
FEBRUARY	5.270E-04	1.019E+06
MARCH	6.420E-04	1.019E+06
APRIL	5.401E-03	3.689E+08
MAY	8.530E-04	3.585E+08
JUNE	2.139E-03	4.765E+08
JULY	1.495E-02	3.299E+08
AUGUST	9.213E-03	3.350E+08
SEPTEMBER	1.438E-03	9.139E+07
OCTOBER	1.919E-03	9.269E+07
NOVEMBER	1.591E-03	1.279E+08
DECEMBER	3.267E-03	1.742E+08
TOTAL	4.386E-02	2.358E+09

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curies Released (Volume in Liters)

313 M

	<u>U-238</u>	<u>Volume</u>
JANUARY	1.580E-06	7.438E+10
FEBRUARY	1.579E-05	7.438E+10
MARCH	7.510E-06	7.438E+10
APRIL	5.132E-06	7.438E+10
MAY	5.672E-06	7.438E+10
JUNE	1.393E-05	7.438E+10
JULY	1.070E-05	7.438E+10
AUGUST	8.980E-06	7.438E+10
SEPTEMBER	1.043E-05	7.438E+10
OCTOBER	9.650E-06	7.438E+10
NOVEMBER	4.538E-06	7.438E+10
DECEMBER	3.882E-06	7.438E+10
TOTAL	9.780E-05	8.925E+11

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curies Released (Volume in Liters)

321 M

	<u>Un I.D.Alpha</u>	<u>Volume</u>
JANUARY	8.450E-07	3.744E+10
FEBRUARY	1.770E-07	3.744E+10
MARCH	1.870E-07	3.744E+10
APRIL	8.650E-07	3.744E+10
MAY	3.310E-07	3.744E+10
JUNE	3.970E-07	3.744E+10
JULY	1.680E-07	3.744E+10
AUGUST	2.480E-07	3.744E+10
SEPTEMBER	5.910E-07	3.744E+10
OCTOBER	7.390E-07	3.744E+10
NOVEMBER	1.488E-06	3.744E+10
DECEMBER	1.399E-06	3.744E+10
TOTAL	7.435E-06	4.492E+11

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
Curies Released (Volume in Liters)

322 M

	<u>Tritium</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	1.280E-07	6.199E+07
FEBRUARY	-	1.560E-07	6.199E+07
MARCH	-	1.990E-07	6.199E+07
APRIL	-	1.511E-06	6.199E+07
MAY	-	6.040E-07	6.199E+07
JUNE	-	5.950E-07	6.199E+07
JULY	-	1.293E-06	6.199E+07
AUGUST	-	6.637E-06	6.199E+07
SEPTEMBER	-	1.390E-07	6.199E+07
OCTOBER	-	1.000E-08	6.199E+07
NOVEMBER	-	-	6.199E+07
DECEMBER	-	1.470E-07	6.199E+07
TOTAL		1.141E-05	7.438E+08

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

P-Area Heat Exchanger Cooling Water (Liquid to Par Pond)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	1.150E+02	2.599E+10
FEBRUARY	1.140E+02	2.595E+10
MARCH	3.408E+01	1.619E+10
APRIL	5.537E+01	2.919E+10
MAY	1.972E+01	2.595E+10
JUNE	4.472E+01	1.527E+10
JULY	1.260E+01	8.403E+09
AUGUST	4.112E+01	4.579E+09
SEPTEMBER	5.574E+01	2.769E+10
OCTOBER	3.623E+01	1.097E+10
NOVEMBER	1.107E+02	2.497E+10
DECEMBER	3.581E+01	3.279E+10
TOTAL	6.752E+02	2.480E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

P-Area Process Sewer (Liquid to Par Pond)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	1.008E+01	-	-	-	-
FEBRUARY	2.266E+01	-	-	-	-
MARCH	2.143E+01	-	-	-	-
APRIL	1.301E+01	-	-	-	-
MAY	8.231E+00	-	-	-	-
JUNE	1.257E+01	-	-	-	-
JULY	2.508E+00	-	-	-	-
AUGUST	6.000E-02	-	-	-	-
SEPTEMBER	7.152E+00	-	-	-	-
OCTOBER	8.892E+00	-	-	-	-
NOVEMBER	4.939E+00	-	-	-	-
DECEMBER	5.106E+00	-	-	-	-
TOTAL	1.166E+02				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	7.569E+08
FEBRUARY	-	4.322E+08
MARCH	-	7.709E+08
APRIL	-	7.599E+08
MAY	-	7.999E+08
JUNE	-	7.499E+08
JULY	-	3.299E+08
AUGUST	-	3.899E+08
SEPTEMBER	-	3.599E+08
OCTOBER	-	3.799E+08
NOVEMBER	-	3.599E+08
DECEMBER	-	3.779E+08
TOTAL		6.468E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

P Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>
JANUARY	6.327E+02	8.500E-05	-	3.940E-02	-
FEBRUARY					
MARCH	6.298E+02	-	-	2.858E-03	-
APRIL	1.475E+00	-	5.200E-06	-	-
MAY	1.156E+03	-	1.976E-05	4.176E-02	-
JUNE					
JULY	4.209E+01	-	2.888E-05	-	2.926E-05
AUGUST	1.299E+03	-	6.613E-04	6.230E-03	2.160E-05
SEPTEMBER	5.894E+02	-	-	5.817E-03	6.000E-06
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	4.351E+03	8.500E-05	7.151E-04	9.608E-02	5.686E-05
	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103.106</u>	
JANUARY	-	3.400E-05	5.134E-03	7.735E-04	
FEBRUARY					
MARCH	4.560E-05	1.974E-04	2.508E-03	2.215E-04	
APRIL	-	-	-	-	
MAY	2.175E-06	1.600E-04	1.419E-03	1.989E-06	
JUNE					
JULY	8.160E-05	3.648E-05	-	-	
AUGUST	8.400E-05	2.640E-04	2.935E-03	2.580E-04	
SEPTEMBER	-	-	2.103E-03	1.665E-04	
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	2.133E-04	6.918E-04	1.410E-02	1.421E-03	

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
 Curies Released (Volume in Liters)

P Area (Purges to Seepage Basins). CONT'D.

	<u>Sb-124.125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141.144</u>
JANUARY	-	8.568E-04	-	2.244E-04	2.499E-03
FEBRUARY	-	-	-	-	-
MARCH	3.000E-05	3.263E-04	-	-	2.977E-03
APRIL	-	-	-	-	-
MAY	2.425E-04	1.549E-03	2.058E-04	4.422E-03	2.000E-03
JUNE	-	-	-	-	-
JULY	-	-	7.220E-06	2.242E-04	-
AUGUST	-	-	-	5.640E-05	-
SEPTEMBER	7.185E-04	1.245E-04	1.845E-04	3.705E-03	1.509E-03
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	9.910E-04	2.857E-03	3.975E-04	8.632E-03	8.985E-03

	<u>Pm-147</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	-	4.875E-02	1.224E-04	1.699E+06
FEBRUARY	-	-	-	-
MARCH	1.649E-04	9.134E-03	6.456E-05	1.739E+06
APRIL	-	5.200E-06	-	1.299E+05
MAY	4.429E-05	4.703E-02	6.027E-05	3.575E+06
JUNE	-	-	-	-
JULY	3.496E-05	1.747E-04	1.692E-06	1.079E+05
AUGUST	3.046E-04	1.061E-02	2.024E-05	2.945E+06
SEPTEMBER	7.695E-04	1.121E-02	2.850E-05	1.499E+06
OCTOBER	-	-	-	-
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-
TOTAL	1.318E-03	1.269E-01	2.976E-04	1.169E+07

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1986
 Curies Released (Volume in Liters)

P Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	2.225E+03	5.860E+03	1.610E+02	6.400E+01	1.550E+02
FEBRUARY	2.135E+03	5.419E+03	1.490E+02	5.900E+01	1.440E+02
MARCH	2.305E+03	6.522E+03	1.790E+02	7.100E+01	1.730E+02
APRIL	3.090E+03	4.928E+03	1.350E+02	5.400E+01	1.310E+02
MAY	2.250E+03	5.885E+03	1.620E+02	6.400E+01	1.560E+02
JUNE	4.830E+03	7.400E+01	2.000E+00	1.000E+00	2.000E+00
JULY	5.795E+03	-	-	-	-
AUGUST	5.110E+03	8.090E+02	2.200E+01	9.000E+00	2.100E+01
SEPTEMBER	4.226E+03	7.356E+03	2.020E+02	8.000E+01	1.950E+02
OCTOBER	5.092E+03	2.501E+03	6.900E+01	2.700E+01	6.600E+01
NOVEMBER	4.251E+03	6.361E+03	1.740E+02	9.700E+01	1.900E+02
DECEMBER	3.243E+03	7.374E+03	2.040E+02	1.010E+02	1.990E+02
TOTAL	4.455E+04	5.308E+04	1.459E+03	6.270E+02	1.432E+03
	<u>Total Kr</u>	<u>Stack I-131</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	3.800E+02	1.410E-04	2.060E-04	4.730E+02	2.070E+02
FEBRUARY	3.520E+02	3.000E-05	2.760E-04	4.370E+02	1.910E+02
MARCH	4.230E+02	9.600E-05	1.274E-03	9.260E+02	2.300E+02
APRIL	3.200E+02	6.700E-05	2.650E-04	3.970E+02	1.740E+02
MAY	3.820E+02	5.800E-05	8.880E-04	4.740E+02	2.070E+02
JUNE	5.000E+00	2.963E-03	3.378E-03	6.000E+00	3.000E+00
JULY	-	5.330E-04	1.200E-04	-	-
AUGUST	5.200E+01	-	6.200E-05	6.500E+01	2.900E+01
SEPTEMBER	4.770E+02	-	-	5.930E+02	2.590E+02
OCTOBER	1.620E+02	1.200E-05	1.630E-04	2.020E+02	8.300E+01
NOVEMBER	4.610E+02	1.090E-04	-	2.660E+02	3.550E+02
DECEMBER	5.040E+02	-	2.260E-04	6.610E+02	4.000E+02
TOTAL	3.518E+03	4.009E-03	6.858E-03	4.500E+03	2.143E+03
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	6.800E+02	1.000E-05	1.300E-07	1.464E+11	1.008E+11
FEBRUARY	6.280E+02	1.000E-05	2.600E-07	1.449E+11	1.008E+11
MARCH	1.156E+03	2.000E-05	5.600E-07	1.560E+11	1.260E+11
APRIL	5.710E+02	1.400E-05	3.200E-07	1.424E+11	1.008E+11
MAY	6.810E+02	2.300E-05	2.300E-07	1.438E+11	1.008E+11
JUNE	9.000E+00	1.800E-04	3.700E-07	2.837E+11	1.260E+11
JULY	-	6.200E-05	2.500E-07	2.690E+11	1.008E+11
AUGUST	9.400E+01	2.200E-05	9.000E-08	3.273E+11	1.008E+11
SEPTEMBER	8.520E+02	1.000E-05	1.900E-07	1.812E+11	1.260E+11
OCTOBER	2.900E+02	1.300E-05	1.300E-07	2.418E+11	1.008E+11
NOVEMBER	6.210E+02	1.000E-05	1.700E-07	1.415E+11	1.008E+11
DECEMBER	1.061E+03	8.000E-06	1.400E-07	1.710E+11	1.260E+11
TOTAL	6.643E+03	3.820E-04	2.840E-06	2.349E+12	1.310E+12

- Less than sensitivity for analysis

TNX AREA
RADIOACTIVE LIQUID RELEASES FOR 1986
Curies Released (Volume in Liters)

CMX-TNX (Liquid to Seepage Basins)

	<u>Un I.D. Beta+Gamma</u>	<u>U-235,238</u>	<u>Volume</u>
JANUARY	-	-	6.812E+05
FEBRUARY	-	-	6.812E+05
MARCH	-	-	6.812E+05
APRIL	-	-	6.812E+05
MAY	-	3.000E-06	6.812E+05
JUNE	-	1.000E-06	6.812E+05
JULY	-	-	6.812E+05
AUGUST	-	-	6.812E+05
SEPTEMBER	-	-	6.812E+05
OCTOBER	-	-	6.812E+05
NOVEMBER	-	-	6.812E+05
DECEMBER	-	-	6.812E+05
TOTAL		4.000E-06	8.175E+06

- Less than sensitivity of analysis

TECHNICAL AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curies Released (Volume in Liters)

A Area (Liquid to Stream)

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.990E-04	4.400E-05	9.751E+07
FEBRUARY	5.300E-05	1.600E-05	9.751E+07
MARCH	1.030E-04	3.900E-05	1.098E+08
APRIL	3.300E-05	8.000E-06	3.691E+07
MAY	4.000E-06	8.000E-06	3.783E+07
JUNE	4.100E-05	9.000E-06	5.609E+07
JULY	1.200E-05	9.000E-06	4.729E+07
AUGUST	4.000E-05	1.300E-05	6.149E+07
SEPTEMBER	6.500E-05	2.000E-05	6.904E+07
OCTOBER	-	9.000E-06	4.975E+07
NOVEMBER	2.460E-04	8.500E-05	5.815E+07
DECEMBER	4.100E-05	-	5.815E+07
TOTAL	8.370E-04	2.600E-04	7.797E+08

- Less than sensitivity of analysis

TECHNICAL AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curles Released (Volume In Liters)

A Area

	<u>Tritium</u>	<u>Co-60</u>	<u>I-131</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	1.850E-04	2.000E-06	-	2.714E+11
FEBRUARY	-	-	2.790E-04	2.000E-06	-	2.714E+11
MARCH	-	-	7.410E-04	3.000E-06	2.000E-06	2.714E+11
APRIL	-	-	7.240E-04	2.000E-06	1.000E-06	2.714E+11
MAY	-	-	3.970E-04	2.000E-06	1.000E-06	2.714E+11
JUNE	-	-	3.520E-04	2.000E-06	2.000E-06	2.714E+11
JULY	-	-	4.370E-04	2.000E-06	1.000E-06	2.714E+11
AUGUST	-	-	4.200E-04	2.000E-06	1.000E-06	2.714E+11
SEPTEMBER	-	-	2.640E-04	4.000E-06	1.000E-06	2.714E+11
OCTOBER	-	-	2.320E-04	3.000E-06	1.000E-06	2.714E+11
NOVEMBER	-	-	1.850E-04	4.000E-06	1.000E-06	2.714E+11
DECEMBER	-	-	1.050E-04	4.000E-06	1.000E-06	2.714E+11
TOTAL			4.321E-03	3.200E-05	1.200E-05	3.256E+12

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curles Released (Volume in Liters)

C-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	1.540E-01	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	9.240E-01	-	-	-	-
APRIL	1.170E-01	-	-	-	-
MAY	6.900E-02	-	-	-	-
JUNE	1.490E-01	-	-	-	-
JULY	2.250E-01	-	-	-	-
AUGUST	1.650E-01	-	-	-	-
SEPTEMBER	2.150E-01	-	-	-	-
OCTOBER	4.190E-01	-	-	-	-
NOVEMBER	5.570E-01	-	-	-	-
DECEMBER	8.050E-01	-	-	-	-

TOTAL 3.798E+00

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	8.449E+06
FEBRUARY	-	3.027E+04
MARCH	-	8.439E+06
APRIL	-	1.469E+07
MAY	4.000E-06	3.449E+06
JUNE	8.000E-06	8.169E+06
JULY	-	8.439E+06
AUGUST	-	8.439E+06
SEPTEMBER	-	8.169E+06
OCTOBER	-	8.439E+06
NOVEMBER	-	8.169E+06
DECEMBER	-	8.329E+06

TOTAL 1.200E-05 9.823E+07

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
 Curies Released (Volume in Liters)

C Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	4.700E+01	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	1.000E+01	-	-	-	-
APRIL	1.800E+02	-	-	-	-
MAY	1.860E+02	-	-	-	-
JUNE	1.860E+02	-	-	-	-
JULY	1.860E+02	-	-	-	-
AUGUST	1.860E+02	-	-	-	-
SEPTEMBER	1.860E+02	-	-	-	-
OCTOBER	1.860E+02	-	-	-	-
NOVEMBER	1.860E+02	-	-	-	-
DECEMBER	1.860E+02	-	-	-	-
TOTAL	1.725E+03				
	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL					
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	-	7.000E-06	2.000E-08	2.973E+11	9.062E+10
FEBRUARY	-	8.000E-06	3.000E-08	3.449E+11	9.119E+10
MARCH	-	6.000E-06	-	4.163E+11	1.146E+11
APRIL	-	4.000E-06	3.500E-08	3.330E+11	9.090E+10
MAY	-	4.000E-06	3.000E-08	2.781E+11	9.062E+10
JUNE	-	5.000E-06	5.000E-08	1.376E+11	1.101E+11
JULY	-	1.000E-06	3.500E-08	1.132E+11	9.062E+10
AUGUST	-	8.000E-06	7.000E-08	1.415E+11	1.132E+11
SEPTEMBER	-	6.000E-06	7.000E-08	1.132E+11	9.062E+10
OCTOBER	-	6.000E-06	6.500E-08	1.132E+11	9.062E+10
NOVEMBER	-	1.070E-04	1.650E-07	1.415E+11	1.132E+11
DECEMBER	-	6.000E-06	7.000E-08	1.132E+11	9.062E+10
TOTAL		1.680E-04	6.400E-07	2.543E+12	1.177E+12

- Less than sensitivity of analysis

D AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curies Released (Volume in Liters)

D-Area Process Sewer (Liquid to Stream)^a

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	2.031E+01	-	-	-	-	3.401E+08
FEBRUARY	1.552E+01	-	-	-	-	3.101E+08
MARCH	1.758E+01	-	-	-	-	3.400E+08
APRIL	1.743E+01	-	-	-	-	3.300E+08
MAY	4.882E+02	-	-	7.700E-04	-	2.002E+08
JUNE	1.745E+01	-	-	-	-	2.600E+08
JULY	1.466E+02	-	-	-	-	2.699E+08
AUGUST	1.889E+02	-	-	-	-	2.699E+08
SEPTEMBER	7.479E+00	-	-	-	-	2.609E+08
OCTOBER	1.679E+01	-	-	-	-	2.699E+08
NOVEMBER	1.249E+02	-	-	-	-	2.609E+08
DECEMBER	3.209E+02	-	-	-	-	2.719E+08
TOTAL	1.382E+03			7.700E-04		3.384E+09

^a The D-Area process sewer composite replaces the individual analyses formerly performed on effluent samples identified as 420-D, 421-2D, and 772-D.

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

420 D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	4.916E+00	-	-	6.819E+09
FEBRUARY	2.429E+00	-	-	6.819E+09
MARCH	1.458E+01	-	-	6.819E+09
APRIL	3.113E+01	-	-	6.819E+09
MAY	1.459E+01	-	-	6.819E+09
JUNE	1.527E+01	-	-	6.819E+09
JULY	2.518E+01	-	-	6.819E+09
AUGUST	3.495E+01	-	-	6.819E+09
SEPTEMBER	2.000E+01	-	-	6.819E+09
OCTOBER	1.977E+01	-	-	6.819E+09
NOVEMBER	7.870E+00	-	-	6.819E+09
DECEMBER	7.828E+00	-	-	6.819E+09
TOTAL	1.985E+02			8.182E+10

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

421-2D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.924E+00	-	-	1.050E+10
FEBRUARY	2.900E-01	1.000E-06	-	1.050E+10
MARCH	4.789E+00	-	-	1.050E+10
APRIL	5.879E+00	1.000E-06	-	1.050E+10
MAY	7.795E+00	1.000E-06	-	1.050E+10
JUNE	4.609E+00	1.000E-06	-	1.050E+10
JULY	4.319E+00	1.000E-06	-	1.050E+10
AUGUST	1.849E+00	-	-	1.050E+10
SEPTEMBER	1.279E+00	-	-	1.050E+10
OCTOBER	9.600E-01	1.000E-06	-	1.050E+10
NOVEMBER	5.820E-01	1.000E-06	-	1.050E+10
DECEMBER	2.650E-01	2.000E-06	-	1.050E+10
TOTAL	3.454E+01	9.000E-06		1.260E+11

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
 Curies Released (Volume in Liters)

772 D

	<u>Tritium</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	1.229E+00	-	-	9.174E+09
FEBRUARY	2.479E+00	-	-	9.174E+09
MARCH	5.099E+00	-	-	9.174E+09
APRIL	5.479E+00	-	-	9.174E+09
MAY	5.103E+00	-	-	9.174E+09
JUNE	2.139E+00	-	-	9.174E+09
JULY	3.319E+00	-	-	9.174E+09
AUGUST	3.899E+00	-	-	9.174E+09
SEPTEMBER	6.590E-01	-	-	9.174E+09
OCTOBER	7.470E-01	-	-	9.174E+09
NOVEMBER	1.015E+00	-	-	9.174E+09
DECEMBER	6.760E-01	-	-	9.174E+09
TOTAL	3.185E+01			1.100E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curies Released (Volume in Liters)

F Area (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.344E+00	6.210E-04	2.692E-03	1.377E-03	6.700E-05	2.070E+08
FEBRUARY	6.470E-01	3.080E-04	7.750E-04	8.560E-04	6.200E-05	2.070E+08
MARCH	2.501E+00	7.000E-04	4.943E-03	2.610E-03	2.320E-04	2.310E+08
APRIL	4.550E-01	5.470E-04	7.801E-03	2.852E-03	3.680E-04	1.518E+08
MAY	7.430E-01	1.180E-03	1.201E-02	9.619E-03	2.330E-04	1.318E+08
JUNE	1.194E+00	5.230E-04	6.496E-03	5.743E-03	2.690E-04	2.127E+08
JULY	8.360E-01	4.180E-04	1.829E-03	1.210E-03	5.000E-05	1.417E+08
AUGUST	8.570E-01	3.050E-04	1.154E-03	3.750E-02	1.468E-03	1.177E+08
SEPTEMBER	1.298E+00	7.500E-04	1.896E-03	1.076E-03	7.800E-05	1.521E+08
OCTOBER	6.330E-01	7.300E-04	2.149E-03	1.224E-03	1.620E-04	1.321E+08
NOVEMBER	8.410E-01	6.620E-04	3.181E-03	1.989E-03	1.430E-04	1.650E+08
DECEMBER	1.153E+00	1.322E-03	3.683E-03	1.644E-03	2.060E-04	2.591E+08
TOTAL	1.250E+01	8.066E-03	4.861E-02	6.770E-02	3.338E-03	2.110E+09

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987**

Curies Released (Volume in Liters)

F Area (Liquid to Seepage Basins)

	<u>Tritium</u>	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	1.121E+03	-	3.000E-03	1.985E-02	2.095E-02
FEBRUARY	2.705E+03	1.000E-03	1.000E-03	1.767E-02	2.570E-02
MARCH	8.675E+02	-	1.000E-03	8.833E-03	1.421E-02
APRIL	1.733E+03	-	1.000E-03	1.037E-02	1.555E-02
MAY	1.174E+03	-	3.000E-03	4.253E-02	3.174E-02
JUNE	4.636E+02	-	2.000E-03	3.460E-03	5.762E-03
JULY	1.388E+03	1.000E-03	5.000E-03	8.681E-03	3.096E-02
AUGUST	9.884E+02	-	1.000E-03	-	3.742E-03
SEPTEMBER	1.725E+02	-	3.000E-03	2.820E-04	1.280E-03
OCTOBER	6.488E+02	-	3.000E-03	4.653E-04	4.261E-03
NOVEMBER	8.416E+02	1.000E-03	2.000E-03	1.312E-02	1.994E-02
DECEMBER	1.056E+03	-	1.000E-03	2.180E-03	5.104E-03
TOTAL	1.316E+04	3.000E-03	2.600E-02	1.274E-01	1.788E-01
	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>
JANUARY	4.379E-04	2.245E-02	-	-	3.523E-01
FEBRUARY	-	5.623E-03	-	-	2.350E-01
MARCH	1.886E-04	2.655E-02	-	4.933E-05	1.506E-01
APRIL	-	7.717E-03	-	2.567E-04	1.870E-01
MAY	1.240E-03	1.274E-01	-	-	4.049E-01
JUNE	-	1.181E-02	-	1.067E-03	5.171E-01
JULY	3.645E-04	1.019E-01	-	1.661E-04	3.097E-01
AUGUST	-	6.582E-03	-	2.994E-04	6.074E-01
SEPTEMBER	-	-	-	4.570E-04	3.026E-01
OCTOBER	-	1.505E-02	-	1.235E-04	2.399E-01
NOVEMBER	-	7.021E-02	-	-	3.484E-01
DECEMBER	-	2.199E-02	-	1.084E-04	2.441E-01
TOTAL	2.231E-03	4.174E-01		2.528E-03	3.899E+00
	<u>Ce-141</u>	<u>Ce-144</u>			
JANUARY	2.527E-04	1.605E-02			
FEBRUARY	-	9.954E-03			
MARCH	-	9.917E-03			
APRIL	1.587E-04	1.049E-02			
MAY	-	2.552E-02			
JUNE	-	1.827E-02			
JULY	-	3.081E-02			
AUGUST	-	-			
SEPTEMBER	-	-			
OCTOBER	-	-			
NOVEMBER	-	5.181E-03			
DECEMBER	-	3.334E-03			
TOTAL	4.114E-04	1.295E-01			

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curies Released (Volume in Liters)

F Area (Liquid to Seepage Basins), CONT'D.

	<u>Pm-147</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	7.300E-02	1.869E-04	2.155E-04	2.618E-04	2.067E-03
FEBRUARY	8.000E-03	-	2.370E-04	4.071E-04	1.865E-03
MARCH	3.000E-03	4.269E-05	2.486E-04	2.328E-04	2.575E-03
APRIL	6.000E-03	-	2.884E-04	6.406E-04	2.765E-03
MAY	5.000E-03	-	6.354E-04	9.325E-04	4.878E-03
JUNE	1.000E-02	-	5.994E-04	7.558E-04	5.392E-03
JULY	2.000E-03	-	4.915E-04	7.971E-04	2.348E-03
AUGUST	8.000E-03	-	8.204E-05	1.486E-04	1.161E-03
SEPTEMBER	3.000E-03	-	7.915E-05	1.172E-04	2.770E-05
OCTOBER	1.300E-02	-	1.155E-04	1.957E-04	2.624E-03
NOVEMBER	3.900E-02	-	9.522E-05	1.618E-04	2.784E-03
DECEMBER	4.000E-03	-	1.932E-04	3.661E-04	9.051E-03
TOTAL	1.740E-01	2.296E-04	3.281E-03	5.017E-03	3.754E-02
	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>	
JANUARY	7.427E-04	4.121E-04	3.699E-03	1.674E+07	
FEBRUARY	1.509E-03	2.490E-04	4.268E-03	9.550E+06	
MARCH	7.617E-04	2.300E-04	4.049E-03	1.022E+07	
APRIL	7.627E-04	2.840E-04	4.741E-03	1.052E+07	
MAY	1.038E-03	4.268E-04	8.061E-03	2.454E+07	
JUNE	4.414E-04	1.562E-04	7.345E-03	1.681E+07	
JULY	3.261E-04	2.067E-04	4.170E-03	1.667E+07	
AUGUST	2.731E-05	7.315E-06	1.427E-03	1.317E+07	
SEPTEMBER	2.081E-04	3.266E-05	4.648E-04	2.494E+09	
OCTOBER	1.510E-04	2.642E-05	3.113E-03	1.742E+07	
NOVEMBER	4.629E-04	1.407E-04	3.645E-03	2.427E+07	
DECEMBER	3.572E-04	1.793E-04	1.014E-02	1.741E+07	
TOTAL	6.789E-03	2.351E-03	5.513E-02	2.672E+09	

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987

Curles Released (Volume In Liters)

200-F Stacks

	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	8.000E-06	6.900E-05	1.600E-04	1.320E-04
FEBRUARY	-	-	6.000E-06	7.400E-05	1.090E-04	1.540E-04
MARCH	-	-	7.000E-06	1.200E-04	2.380E-04	1.190E-04
APRIL	-	-	9.000E-06	1.080E-04	1.680E-04	7.400E-05
MAY	-	-	2.800E-05	2.300E-04	4.820E-04	1.080E-04
JUNE	-	-	5.900E-05	2.210E-04	5.050E-04	6.600E-05
JULY	-	-	1.800E-05	4.700E-05	7.200E-05	6.000E-06
AUGUST	-	-	1.600E-05	1.900E-05	9.100E-05	2.400E-05
SEPTEMBER	-	-	1.100E-05	-	6.000E-06	-
OCTOBER	-	-	8.000E-06	1.310E-04	7.000E-05	-
NOVEMBER	-	-	1.600E-05	6.800E-05	9.300E-05	2.000E-06
DECEMBER	-	-	1.500E-05	1.300E-05	6.500E-05	-
TOTAL			2.010E-04	1.100E-03	2.059E-03	6.850E-04

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	4.103E-03	-	-	9.000E-06	-
FEBRUARY	4.061E-03	-	-	9.000E-06	-
MARCH	4.646E-03	-	-	1.400E-05	1.000E-06
APRIL	4.049E-03	-	-	2.200E-05	1.000E-06
MAY	6.840E-03	-	-	6.600E-05	-
JUNE	3.332E-03	-	-	1.550E-04	-
JULY	5.630E-04	-	-	3.200E-05	1.000E-06
AUGUST	2.312E-03	-	-	2.400E-05	1.000E-06
SEPTEMBER	7.400E-05	-	-	9.000E-06	-
OCTOBER	8.010E-04	-	-	1.900E-05	-
NOVEMBER	2.128E-03	-	-	3.800E-05	-
DECEMBER	1.042E-03	-	-	3.700E-05	-
TOTAL	3.395E-02			4.340E-04	4.000E-06

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curles Released (Volume in Liters)

200-F Stacks, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	8.400E-05	-	6.000E-06	2.000E-06	1.860E-04
FEBRUARY	8.200E-05	-	1.600E-05	4.000E-06	1.710E-04
MARCH	1.550E-04	-	1.400E-05	1.000E-05	3.020E-04
APRIL	1.470E-04	-	4.000E-06	1.200E-05	1.720E-04
MAY	5.520E-04	-	3.600E-05	2.500E-05	2.660E-04
JUNE	1.102E-03	1.000E-06	1.300E-05	6.600E-05	2.780E-04
JULY	1.310E-04	3.000E-06	1.400E-05	6.200E-05	2.310E-04
AUGUST	7.500E-05	3.000E-06	1.400E-05	6.300E-05	2.620E-04
SEPTEMBER	1.200E-05	2.000E-06	6.000E-06	3.000E-05	1.220E-04
OCTOBER	4.000E-05	-	3.000E-06	1.000E-05	1.950E-04
NOVEMBER	1.380E-04	-	5.000E-06	1.600E-05	2.640E-04
DECEMBER	1.710E-04	-	1.700E-05	8.000E-06	1.200E-04
TOTAL	2.689E-03	9.000E-06	1.480E-04	3.080E-04	2.569E-03

	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	3.200E-05	5.000E-06	2.700E-05	-	3.421E+11
FEBRUARY	1.800E-05	5.000E-06	1.300E-05	-	3.421E+11
MARCH	2.800E-05	1.500E-05	1.300E-05	-	4.276E+11
APRIL	2.600E-05	7.000E-06	1.900E-05	-	3.421E+11
MAY	5.900E-05	3.300E-05	2.600E-05	-	4.276E+11
JUNE	3.600E-05	8.000E-06	2.800E-05	-	3.421E+11
JULY	3.200E-05	6.000E-06	2.600E-05	-	3.421E+11
AUGUST	2.900E-05	1.000E-05	1.900E-05	-	4.276E+11
SEPTEMBER	2.200E-05	9.000E-06	1.300E-05	-	3.424E+11
OCTOBER	2.200E-05	9.000E-06	1.300E-05	-	3.421E+11
NOVEMBER	2.500E-05	7.000E-06	1.800E-05	-	4.276E+11
DECEMBER	7.600E-05	6.000E-05	1.600E-05	-	3.421E+11
TOTAL	4.050E-04	1.740E-04	2.310E-04		4.447E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

247-F Naval Fuel Stacks

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Un I.D. Beta+Gamma</u>	<u>U-235,238</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	-	1.554E+11
FEBRUARY	-	2.000E-06	-	1.554E+11
MARCH	-	-	-	1.554E+11
APRIL	-	-	-	1.554E+11
MAY	-	3.000E-06	1.000E-06	1.554E+11
JUNE	-	4.000E-06	3.000E-06	1.554E+11
JULY	-	4.300E-04	-	1.554E+11
AUGUST	-	1.000E-06	-	1.554E+11
SEPTEMBER	-	1.000E-06	-	1.554E+11
OCTOBER	-	-	-	1.554E+11
NOVEMBER	-	5.370E-03	3.000E-06	1.554E+11
DECEMBER	-	2.000E-06	1.000E-06	1.554E+11
TOTAL		5.813E-03	8.000E-06	1.865E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curles Released (Volume In Liters)

772-F Stack

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY	2.000E-06	7.000E-06	3.100E-05	-	4.300E-05
FEBRUARY	-	5.000E-06	2.000E-05	-	2.600E-05
MARCH	-	1.000E-06	8.000E-06	-	1.200E-05
APRIL	-	1.000E-06	8.000E-06	-	1.000E-05
MAY	-	-	9.000E-06	-	9.000E-06
JUNE	-	-	4.000E-06	-	2.000E-06
JULY	-	-	3.000E-06	-	5.000E-06
AUGUST	-	1.000E-06	9.000E-06	-	9.000E-06
SEPTEMBER	-	1.000E-06	4.000E-06	-	3.000E-06
OCTOBER	-	1.000E-06	1.200E-05	-	1.000E-05
NOVEMBER	-	1.000E-06	1.400E-05	-	8.000E-06
DECEMBER	-	-	5.000E-06	-	1.000E-06
TOTAL	2.000E-06	1.800E-05	1.270E-04		1.380E-04

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	2.000E-06	1.222E+11
FEBRUARY	-	4.000E-06	1.222E+11
MARCH	-	3.000E-06	1.222E+11
APRIL	-	2.000E-06	1.222E+11
MAY	-	3.000E-06	1.222E+11
JUNE	-	9.000E-06	1.222E+11
JULY	-	5.000E-06	1.222E+11
AUGUST	-	9.000E-06	1.222E+11
SEPTEMBER	-	7.000E-06	1.222E+11
OCTOBER	-	4.000E-06	1.222E+11
NOVEMBER	-	-	1.222E+11
DECEMBER	-	-	1.222E+11
TOTAL		4.800E-05	1.466E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987

Curies Released (Volume in Liters)

772-1F Stack

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY					
FEBUARY					
MARCH					
APRIL					
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY					
FEBUARY					
MARCH					
APRIL					
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY			
FEBUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY			
AUGUST			
SEPTEMBER	-	-	1.222E+11
OCTOBER	-	-	1.222E+11
NOVEMBER	-	-	1.222E+11
DECEMBER	-	-	1.222E+11
TOTAL			4.889E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

F & H Area Waste Tanks Exhaust

	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-	-
FEBRUARY	-	-	-	1.000E-06	2.000E-06	-
MARCH	-	-	-	-	-	-
APRIL	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUNE	-	-	-	-	-	-
JULY	-	-	-	-	-	-
AUGUST	-	-	4.000E-06	1.000E-06	1.000E-06	-
SEPTEMBER	-	-	-	-	-	-
OCTOBER	-	-	-	-	-	-
NOVEMBER	-	-	-	-	-	-
DECEMBER	-	-	-	-	-	-
TOTAL			4.000E-06	2.000E-06	3.000E-06	

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY	-	-	1.000E-06	3.400E-05	-	-
FEBRUARY	2.000E-06	-	7.000E-06	1.170E-04	-	1.300E-05
MARCH	-	-	2.000E-06	3.410E-04	-	1.000E-06
APRIL	1.000E-06	-	1.000E-06	5.400E-05	-	2.000E-06
MAY	2.000E-06	-	-	3.000E-05	-	1.000E-06
JUNE	2.000E-06	-	2.000E-06	2.100E-05	-	7.000E-06
JULY	-	-	-	1.800E-05	-	-
AUGUST	2.000E-06	-	2.003E-03	7.101E-02	-	2.501E-02
SEPTEMBER	-	-	1.000E-06	5.700E-05	-	-
OCTOBER	-	-	1.000E-06	4.000E-05	-	4.000E-06
NOVEMBER	-	-	3.333E-02	1.000E+00	-	-
DECEMBER	-	-	-	2.710E-04	-	-
TOTAL	9.000E-06		3.535E-02	1.072E+00		2.504E-02

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	9.000E+04
FEBRUARY	-	-	9.000E+04
MARCH	-	9.000E-06	9.000E+04
APRIL	-	9.000E-06	9.000E+04
MAY	-	5.000E-06	9.000E+04
JUNE	-	-	9.000E+04
JULY	-	-	9.000E+04
AUGUST	-	1.000E-06	9.000E+04
SEPTEMBER	-	-	9.000E+04
OCTOBER	-	-	9.000E+04
NOVEMBER	-	-	9.000E+04
DECEMBER	-	-	9.000E+04
TOTAL		2.300E-05	1.000E+06

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curles Released (Volume in Liters)

H Area (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Cs-134.137</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.292E+00	-	8.480E-04	3.236E-02	1.378E-02	9.419E+07
FEBRUARY	1.555E+02	1.450E-04	7.180E-04	4.170E-04	8.000E-05	6.429E+07
MARCH	1.426E+01	1.410E-04	3.710E-04	6.840E-04	8.600E-05	7.968E+07
APRIL	3.696E+00	1.420E-04	3.300E-04	2.287E-03	4.300E-05	4.826E+07
MAY	4.959E+00	-	4.450E-04	3.690E-04	1.900E-05	5.434E+07
JUNE	5.513E+00	-	3.490E-04	7.690E-04	5.400E-05	6.550E+07
JULY	4.355E+00	1.550E-04	5.140E-04	5.630E-04	6.200E-05	6.138E+07
AUGUST	4.827E+00	1.500E-05	6.770E-04	4.670E-04	5.100E-05	7.012E+07
SEPTEMBER	4.720E+00	2.000E-05	5.850E-04	9.180E-04	9.600E-05	1.148E+08
OCTOBER	2.174E+00	6.900E-05	4.250E-04	2.700E-05	2.700E-05	5.438E+08
NOVEMBER	1.486E+00	3.930E-04	1.078E-03	9.820E-04	6.600E-05	5.846E+07
DECEMBER	1.421E+00	7.210E-04	1.117E-03	1.208E-03	9.400E-05	9.157E+07
TOTAL	2.043E+02	1.801E-03	7.457E-03	4.135E-02	1.446E-02	1.346E+09

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987**

H Area (Liquid to Seepage Basins)

	<u>Tritium</u>	<u>Cr-51</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zn-65</u>	<u>Sr-89</u>
JANUARY	7.769E+02	4.407E-03	-	3.191E-04	2.689E-04	-
FEBRUARY	1.048E+03	-	-	-	-	-
MARCH	1.026E+03	-	-	-	-	-
APRIL	1.008E+03	-	-	2.082E-03	1.678E-03	2.000E-03
MAY	1.942E+03	-	-	3.916E-03	3.457E-03	-
JUNE	9.518E+02	-	-	7.526E-04	2.765E-03	-
JULY	1.889E+03	-	-	2.641E-03	5.847E-03	-
AUGUST	7.714E+02	-	-	-	2.008E-03	-
SEPTEMBER	5.988E+01	-	-	-	-	-
OCTOBER	2.445E+02	-	-	-	3.143E-04	-
NOVEMBER	1.689E+03	2.356E-02	5.505E-04	2.207E-03	2.541E-03	2.000E-03
DECEMBER	2.189E+03	1.379E-02	3.866E-04	9.792E-04	1.913E-03	-
TOTAL	1.359E+04	4.175E-02	9.371E-04	1.289E-02	2.079E-02	4.000E-03

	<u>Sr-90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>	<u>Ru-106</u>	<u>Sb-124,125</u>
JANUARY	3.000E-03	-	-	-	6.346E-02	-
FEBRUARY	1.000E-03	-	-	-	3.283E-02	-
MARCH	2.000E-03	-	-	-	2.703E-02	-
APRIL	3.000E-03	2.648E-03	1.872E-03	5.416E-04	3.814E-02	-
MAY	2.000E-03	6.763E-04	4.784E-04	1.374E-04	2.161E-01	-
JUNE	1.000E-03	-	-	-	3.592E-02	-
JULY	1.000E-03	-	1.841E-04	-	1.902E-02	-
AUGUST	2.000E-03	-	-	-	1.390E-02	-
SEPTEMBER	2.000E-03	2.502E-03	2.384E-03	-	5.849E-02	-
OCTOBER	-	-	1.192E-03	2.623E-04	2.639E-02	-
NOVEMBER	1.000E-03	-	-	-	2.502E-02	-
DECEMBER	1.000E-03	-	2.577E-04	-	3.145E-03	-
TOTAL	1.900E-02	5.857E-03	6.368E-03	9.414E-04	5.595E-01	-

	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY	-	9.660E-03	5.996E-01	-	-
FEBRUARY	-	8.221E-03	5.622E-01	-	-
MARCH	-	5.125E-03	3.768E-01	-	8.731E-04
APRIL	-	4.950E-03	5.760E-01	-	3.720E-03
MAY	-	1.831E-02	6.057E-01	-	2.723E-03
JUNE	-	7.522E-03	3.368E-01	1.250E-03	5.149E-03
JULY	-	2.663E-02	3.408E+00	-	6.155E-03
AUGUST	-	2.099E-02	2.947E+00	-	5.516E-03
SEPTEMBER	-	5.765E-03	8.708E-01	-	-
OCTOBER	-	1.880E-03	2.729E-01	-	-
NOVEMBER	-	3.786E-03	2.176E-01	-	7.266E-03
DECEMBER	-	4.077E-03	5.988E-01	-	6.400E-05
TOTAL	-	1.169E-01	1.137E+01	1.250E-03	3.146E-02

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987**

H Area (Liquid to Seepage Basins), CONT'D.

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	1.130E-01	-	1.141E-04	7.078E-05	1.432E-04
FEBRUARY	1.200E-02	-	1.017E-04	9.467E-05	4.389E-04
MARCH	1.900E-02	-	7.177E-05	9.235E-05	7.139E-05
APRIL	9.000E-03	-	1.537E-04	1.319E-04	1.248E-02
MAY	6.000E-03	7.194E-04	2.615E-04	3.357E-05	5.548E-04
JUNE	5.000E-03	-	1.821E-04	1.023E-04	2.516E-04
JULY	1.100E-02	-	1.000E-03	1.825E-04	2.602E-04
AUGUST	3.300E-02	-	2.842E-04	2.112E-04	4.087E-05
SEPTEMBER	1.200E-02	-	1.309E-04	3.081E-05	3.293E-05
OCTOBER	1.700E-02	-	9.029E-05	6.131E-06	2.795E-05
NOVEMBER	8.500E-02	-	5.742E-05	2.406E-05	2.057E-05
DECEMBER	1.000E-03	-	1.169E-03	-	3.222E-05
TOTAL	3.230E-01	7.194E-04	3.617E-03	9.805E-04	1.435E-02

	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.812E-04	3.150E-05	5.408E-04	1.871E+07
FEBRUARY	1.722E-04	1.042E-05	8.126E-04	1.975E+07
MARCH	1.591E-04	-	3.947E-04	2.198E+07
APRIL	2.577E-03	6.573E-05	1.541E-02	2.196E+07
MAY	2.899E-04	1.136E-05	1.148E-03	2.597E+07
JUNE	1.517E-04	-	6.878E-04	2.429E+07
JULY	1.953E-04	5.400E-06	1.579E-03	2.972E+07
AUGUST	1.455E-04	-	6.818E-04	2.400E+07
SEPTEMBER	5.751E-04	2.378E-05	7.935E-04	2.855E+07
OCTOBER	2.076E-04	4.977E-05	3.817E-04	2.930E+07
NOVEMBER	1.476E-04	3.474E-06	2.531E-04	2.668E+07
DECEMBER	1.039E-03	2.407E-05	2.264E-03	2.545E+07
TOTAL	5.841E-03	2.255E-04	2.495E-02	2.964E+08

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

200-H Stack

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89,90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	2.378E+04	-	-	4.000E-06	5.600E-05	1.470E-04
FEBRUARY	2.017E+04	-	-	1.500E-05	3.700E-05	2.020E-04
MARCH	2.669E+04	-	-	8.000E-06	9.000E-06	9.900E-05
APRIL	3.327E+04	-	-	5.000E-06	5.900E-05	9.700E-05
MAY	3.094E+04	-	-	4.000E-05	7.300E-05	1.970E-04
JUNE	2.378E+04	-	-	6.400E-05	6.000E-06	1.140E-04
JULY	1.845E+05	-	-	1.590E-04	2.660E-04	1.530E-04
AUGUST	2.066E+04	-	-	1.900E-05	3.600E-05	1.270E-04
SEPTEMBER	2.483E+04	-	-	2.900E-05	-	1.300E-05
OCTOBER	1.761E+04	-	-	2.800E-05	7.000E-06	2.600E-05
NOVEMBER	3.223E+04	-	-	2.100E-05	-	2.500E-05
DECEMBER	2.490E+04	-	-	1.600E-05	2.100E-05	2.900E-05
TOTAL	4.634E+05			4.080E-04	5.700E-04	1.229E-03

	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	1.500E-05	3.340E-04	-	1.000E-06	1.400E-05	-
FEBRUARY	1.700E-05	5.050E-04	3.000E-06	1.000E-06	2.100E-05	-
MARCH	3.600E-05	1.446E-03	-	1.000E-06	1.300E-05	-
APRIL	2.050E-04	1.523E-03	2.000E-06	1.000E-06	1.600E-05	-
MAY	1.250E-04	1.398E-03	-	-	5.100E-05	-
JUNE	6.200E-05	1.042E-03	-	1.000E-05	1.190E-04	-
JULY	6.700E-05	1.534E-03	-	7.900E-05	2.520E-04	2.000E-06
AUGUST	6.100E-05	7.050E-04	-	3.800E-05	1.870E-04	-
SEPTEMBER	-	3.200E-05	-	-	3.900E-05	-
OCTOBER	1.000E-06	3.240E-04	-	3.000E-06	6.500E-05	-
NOVEMBER	4.700E-05	1.514E-03	-	7.000E-06	6.200E-05	-
DECEMBER	4.800E-05	9.830E-04	-	1.100E-05	3.800E-05	-
TOTAL	6.840E-04	1.134E-02	5.000E-06	1.520E-04	8.770E-04	2.000E-06

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
 Curies Released (Volume in Liters)

200-H Stacks. CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241.243</u>	<u>Cm-242.244</u>	<u>U-235.238</u>
JANUARY	1.030E-04	-	2.000E-06	-	4.000E-06
FEBRUARY	1.720E-04	-	6.000E-06	5.000E-06	1.300E-05
MARCH	9.000E-05	-	4.000E-06	-	7.000E-06
APRIL	1.440E-04	-	5.000E-06	4.000E-06	1.200E-05
MAY	1.420E-04	-	6.000E-06	1.000E-06	2.100E-05
JUNE	1.350E-04	-	3.000E-06	-	9.000E-06
JULY	2.029E-03	1.000E-06	6.000E-06	1.000E-06	1.200E-05
AUGUST	1.780E-04	-	2.000E-06	-	7.000E-06
SEPTEMBER	-	-	3.000E-06	-	3.000E-06
OCTOBER	8.200E-05	-	4.000E-06	-	9.000E-06
NOVEMBER	2.830E-04	-	5.000E-06	-	1.400E-05
DECEMBER	2.090E-04	-	1.000E-05	3.000E-06	5.000E-06
TOTAL	3.567E-03	1.000E-06	5.600E-05	1.400E-05	1.160E-04

	<u>Pu-238.239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	8.300E-05	8.100E-05	2.000E-06	-	2.283E+11
FEBRUARY	6.850E-04	6.790E-04	6.000E-06	-	2.283E+11
MARCH	1.090E-04	1.030E-04	6.000E-06	-	2.854E+11
APRIL	1.540E-04	1.500E-04	4.000E-06	-	2.283E+11
MAY	9.900E-05	9.700E-05	2.000E-06	-	2.854E+11
JUNE	1.510E-04	1.500E-04	1.000E-06	-	2.283E+11
JULY	8.400E-05	8.100E-05	3.000E-06	-	2.283E+11
AUGUST	5.400E-05	5.400E-05	-	-	2.854E+11
SEPTEMBER	6.000E-06	6.000E-06	-	-	2.283E+11
OCTOBER	6.000E-05	5.700E-05	3.000E-06	-	2.283E+11
NOVEMBER	4.400E-05	4.200E-05	2.000E-06	-	2.854E+11
DECEMBER	3.010E-04	2.880E-04	1.300E-05	-	2.283E+11
TOTAL	1.830E-03	1.788E-03	4.200E-05	-	2.968E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
 Curies Released (Volume in Liters)

230-H Incinerator Stack

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-103</u>	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	1.500E-05	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	2.000E-06	-
SEPTEMBER	-	-	-	2.000E-06	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

1.900E-05

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	-	1.498E+10
FEBRUARY	-	-	-	1.498E+10
MARCH	-	-	-	1.498E+10
APRIL	-	-	-	1.498E+10
MAY	-	-	-	1.498E+10
JUNE	-	-	-	1.498E+10
JULY	-	-	-	1.498E+10
AUGUST	1.600E-05	-	-	1.498E+10
SEPTEMBER	1.000E-06	-	-	1.498E+10
OCTOBER	-	-	-	1.498E+10
NOVEMBER	-	-	-	1.498E+10
DECEMBER	-	-	-	1.498E+10
TOTAL	1.700E-05			1.798E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987

Curies Released (Volume in Liters)

244-H Ruboff Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	1.550E+02	-	-	-	-	-
FEBRUARY	7.800E+01	-	-	-	-	-
MARCH	2.470E+02	-	-	-	-	-
APRIL	4.750E+02	-	-	-	-	-
MAY	8.778E+01	-	-	-	-	-
JUNE	1.348E+02	-	-	-	-	-
JULY	1.591E+02	-	-	-	-	-
AUGUST	7.422E+01	-	-	-	-	-
SEPTEMBER	2.615E+01	-	-	-	-	-
OCTOBER	1.040E+02	-	-	-	-	-
NOVEMBER	3.677E+00	-	-	-	-	-
DECEMBER	6.246E+00	-	-	-	-	-

TOTAL 1.551E+03

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	5.000E-06	-	1.000E-06	-
MAY	-	1.400E-05	-	1.000E-06	-
JUNE	-	-	-	1.000E-06	-
JULY	-	-	-	-	-
AUGUST	-	-	-	1.000E-06	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	2.000E-06	-

TOTAL 1.900E-05 6.000E-06

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	8.000E-06	1.656E+10
FEBRUARY	-	-	-	1.656E+10
MARCH	-	-	-	1.656E+10
APRIL	-	-	-	1.656E+10
MAY	-	-	1.000E-05	1.656E+10
JUNE	-	-	-	1.656E+10
JULY	-	-	-	1.656E+10
AUGUST	-	-	-	1.656E+10
SEPTEMBER	-	-	-	1.656E+10
OCTOBER	-	-	-	1.656E+10
NOVEMBER	-	-	-	1.656E+10
DECEMBER	-	-	-	1.656E+10

TOTAL 1.800E-05 1.988E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curles Released (Volume in Liters)

253-H Waste Compactor Stack

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	1.300E-05	-	1.000E-06	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL		1.300E-05		1.000E-06	

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL					

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	3.653E+09
FEBRUARY	-	-	3.653E+09
MARCH	-	-	3.653E+09
APRIL	-	-	3.653E+09
MAY	-	-	3.653E+09
JUNE	-	-	3.653E+09
JULY	-	-	3.653E+09
AUGUST	-	1.000E-06	3.653E+09
SEPTEMBER	-	-	3.653E+09
OCTOBER	-	-	3.653E+09
NOVEMBER	-	-	3.653E+09
DECEMBER	-	-	3.653E+09
TOTAL		1.000E-06	4.383E+10

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curles Released (Volume in Liters)

K-Area Heat Exchanger Cooling Water (Liquid to Stream)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	4.739E+00	4.579E+09
FEBRUARY	3.377E+00	4.579E+09
MARCH	1.417E+01	1.144E+09
APRIL	7.163E+01	6.638E+09
MAY	4.132E+01	1.327E+10
JUNE	7.076E+01	2.988E+10
JULY	1.015E+02	2.655E+10
AUGUST	9.838E+01	2.655E+10
SEPTEMBER	2.394E+02	2.440E+10
OCTOBER	8.409E+01	2.356E+10
NOVEMBER	7.646E+02	2.142E+10
DECEMBER	1.412E+02	3.319E+10
TOTAL	1.635E+03	2.158E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curles Released (Volume In Liters)

K-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	2.991E+00	-	-	-	-
FEBRUARY	6.590E+00	-	-	-	-
MARCH	7.376E+00	-	-	-	-
APRIL	1.570E+01	-	-	-	-
MAY	7.751E+00	-	-	-	-
JUNE	4.919E+00	-	-	-	-
JULY	2.185E+00	-	-	-	-
AUGUST	2.409E+00	-	-	-	-
SEPTEMBER	9.004E+00	-	-	-	-
OCTOBER	2.784E+00	-	-	-	-
NOVEMBER	5.148E+00	-	-	-	-
DECEMBER	1.549E+00	-	-	-	-
TOTAL	6.842E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	4.219E+08
FEBRUARY	-	3.809E+08
MARCH	-	4.219E+08
APRIL	-	4.079E+08
MAY	-	4.219E+08
JUNE	-	4.079E+08
JULY	-	4.219E+08
AUGUST	1.310E-04	4.219E+08
SEPTEMBER	-	4.079E+08
OCTOBER	-	4.219E+08
NOVEMBER	-	4.079E+08
DECEMBER	-	4.219E+08
TOTAL	1.310E-04	4.966E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curies Released (Volume in Liters)

K Area (Purges to Containment Basin)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58,60</u>
JANUARY	6.336E+02	-	-	-	-
FEBRUARY	1.288E+03	1.000E-06	-	1.480E-04	1.096E-03
MARCH					
APRIL	6.150E+02	-	1.728E-03	2.471E-03	-
MAY	1.012E+03	-	3.399E-04	1.796E-03	-
JUNE					
JULY					
AUGUST	2.308E+01	-	-	2.827E-05	9.548E-05
SEPTEMBER					
OCTOBER	6.448E+02	-	1.325E-03	1.403E-03	5.610E-05
NOVEMBER					
DECEMBER					
TOTAL	4.218E+03	1.000E-06	3.394E-03	5.847E-03	1.247E-03
	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103,106</u>	
JANUARY	3.905E-05	-	-	-	
FEBRUARY	2.700E-05	2.300E-05	9.100E-05	4.300E-05	
MARCH					
APRIL	-	-	1.675E-04	-	
MAY	9.860E-05	-	1.017E-03	-	
JUNE					
JULY					
AUGUST	4.960E-06	1.984E-05	6.683E-05	4.526E-06	
SEPTEMBER	-	-	-	-	
OCTOBER	5.995E-04	1.391E-03	9.240E-06	-	
NOVEMBER					
DECEMBER					
TOTAL	7.691E-04	1.434E-03	1.351E-03	4.752E-05	

- Less than sensitivity of analysis

**REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987**
Curies Released (Volume in Liters)

K Area (Purges to Containment Basin), CONT'D.

	<u>Sb-124.125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141.144</u>
JANUARY	-	-	-	-	-
FEBRUARY	3.000E-06	-	-	6.100E-05	1.430E-04
MARCH	-	-	-	-	-
APRIL	-	-	3.979E-04	1.062E-02	2.773E-04
MAY	6.369E-05	-	3.700E-04	1.094E-02	6.060E-04
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	4.625E-05	-	1.023E-05	2.938E-04	1.638E-04
SEPTEMBER	-	-	-	-	-
OCTOBER	-	1.424E-03	5.877E-04	1.300E-02	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	1.129E-04	1.424E-03	1.366E-03	3.492E-02	1.190E-03

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	3.905E-05	1.627E-05	2.809E+05
FEBRUARY	6.000E-06	1.558E-03	2.000E-06	1.049E+05
MARCH	-	-	-	-
APRIL	2.010E-04	4.845E-03	1.098E-04	1.339E+06
MAY	2.736E-04	4.195E-03	8.503E-05	2.269E+06
JUNE	-	-	-	-
JULY	-	-	-	-
AUGUST	-	5.387E-04	6.820E-07	6.199E+04
SEPTEMBER	-	-	-	-
OCTOBER	6.466E-04	6.925E-03	5.025E-05	1.709E+06
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-
TOTAL	1.127E-03	1.810E-02	2.641E-04	5.767E+06

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curles Released (Volume in Liters)

K Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	4.468E+03	-	-	-	-
FEBRUARY	7.490E+03	1.000E+00	-	-	-
MARCH	5.236E+03	4.214E+03	-	7.000E+00	-
APRIL	1.881E+03	3.585E+03	1.000E+00	1.200E+01	-
MAY	2.492E+03	5.386E+03	-	1.400E+01	-
JUNE	2.110E+03	2.910E+03	-	9.000E+00	-
JULY	1.895E+03	3.787E+03	-	7.000E+00	-
AUGUST	1.975E+03	5.275E+03	-	1.000E+00	-
SEPTEMBER	2.820E+03	2.530E+03	-	-	-
OCTOBER	2.250E+03	2.805E+03	-	2.000E+00	-
NOVEMBER	2.160E+03	4.150E+03	-	5.000E+00	-
DECEMBER	1.775E+03	6.150E+03	1.000E+00	1.500E+02	-
TOTAL	3.655E+04	4.079E+04	2.000E+00	2.070E+02	-
	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	-	4.460E-04	4.300E-05	-	-
FEBRUARY	-	1.700E-05	-	2.300E+01	3.000E+00
MARCH	7.000E+00	5.000E-06	-	7.600E+01	1.100E+01
APRIL	1.300E+01	5.000E-06	-	1.420E+02	-
MAY	1.400E+01	1.000E-06	-	2.020E+02	-
JUNE	9.000E+00	5.000E-06	-	1.340E+02	6.000E+00
JULY	7.000E+00	-	-	2.470E+02	-
AUGUST	1.000E+00	1.000E-06	-	2.320E+02	-
SEPTEMBER	1.000E+00	-	-	7.300E+01	-
OCTOBER	2.000E+00	-	-	1.530E+02	1.000E+00
NOVEMBER	5.000E+00	-	-	1.800E+02	2.000E+00
DECEMBER	1.510E+02	-	-	3.500E+02	-
TOTAL	2.100E+02	4.800E-04	4.300E-05	1.812E+03	2.300E+01
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	-	7.000E-05	1.020E-06	2.279E+11	9.175E+10
FEBRUARY	2.600E+01	2.100E-05	5.100E-07	2.279E+11	9.175E+10
MARCH	8.700E+01	1.500E-05	7.650E-07	2.245E+11	1.146E+11
APRIL	1.420E+02	1.200E-05	1.400E-07	1.251E+11	9.147E+10
MAY	2.020E+02	1.300E-05	2.500E-07	1.251E+11	9.175E+10
JUNE	1.400E+02	1.600E-05	2.500E-07	1.784E+11	1.146E+11
JULY	2.470E+02	1.000E-05	1.200E-07	1.246E+11	9.487E+10
AUGUST	2.320E+02	1.100E-05	3.600E-07	1.563E+11	1.146E+11
SEPTEMBER	7.300E+01	9.000E-06	1.600E-07	1.577E+11	9.402E+10
OCTOBER	1.540E+02	7.000E-06	9.000E-08	1.444E+11	9.175E+10
NOVEMBER	1.820E+02	8.000E-06	3.700E-07	1.642E+11	1.146E+11
DECEMBER	3.500E+02	1.000E-06	3.700E-07	1.294E+11	9.147E+10
TOTAL	1.835E+03	1.930E-04	4.405E-06	1.986E+12	1.197E+12

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curies Released (Volume in Liters)

L-Area Heat Exchanger Cooling Water (Liquid to L Lake)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	2.743E+01	2.499E+10
FEBRUARY	1.843E+01	2.499E+10
MARCH	7.101E+00	2.689E+09
APRIL	1.852E+01	6.638E+09
MAY	1.838E+01	2.227E+10
JUNE	1.830E+01	3.138E+10
JULY	2.788E+01	2.581E+10
AUGUST	3.755E+00	4.579E+09
SEPTEMBER	3.595E+00	5.724E+09
OCTOBER	3.664E+00	4.579E+09
NOVEMBER	8.927E+00	1.189E+10
DECEMBER	2.101E+01	3.242E+10
TOTAL	1.770E+02	1.980E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curles Released (Volume in Liters)

L-Area Process Sewer (Liquid to L Lake)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	3.114E+00	-	-	-	-
FEBRUARY	1.153E+00	-	-	-	-
MARCH	1.670E+00	-	-	-	-
APRIL	7.250E-01	-	-	-	-
MAY	-	-	-	-	-
JUNE	4.080E-01	-	-	-	-
JULY	3.118E+00	-	-	-	-
AUGUST	1.033E+00	-	-	-	-
SEPTEMBER	2.493E+00	-	-	-	-
OCTOBER	2.931E+00	-	-	-	-
NOVEMBER	1.960E+00	-	-	-	-
DECEMBER	8.640E-01	-	-	-	-
TOTAL	1.947E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	6.059E+08
FEBRUARY	-	4.749E+08
MARCH	-	5.479E+08
APRIL	-	5.369E+08
MAY	4.100E-05	5.129E+08
JUNE	-	4.919E+08
JULY	-	5.339E+08
AUGUST	-	5.579E+08
SEPTEMBER	-	4.889E+08
OCTOBER	-	5.189E+08
NOVEMBER	-	5.039E+08
DECEMBER	-	4.879E+08
TOTAL	4.100E-05	6.262E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curies Released (Volume in Liters)

L Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>	<u>Sr-89</u>
JANUARY	6.829E+00	-	3.377E-03	7.396E-04	-	-
FEBRUARY	3.113E+00	-	1.902E-03	3.212E-04	-	-
MARCH	1.168E+01	-	1.817E-03	1.184E-03	-	-
APRIL	8.652E+00	-	5.282E-05	1.201E-03	-	-
MAY						
JUNE	7.319E+00	-	-	6.911E-05	-	-
JULY	1.886E+00	-	2.049E-05	7.395E-05	-	-
AUGUST						
SEPTEMBER	5.279E+00	-	-	1.940E-04	-	-
OCTOBER						
NOVEMBER	7.565E+00	-	-	4.012E-05	-	-
DECEMBER						
TOTAL	5.232E+01		7.171E-03	3.823E-03		
	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103.106</u>	<u>I-131</u>	<u>Cs-134</u>	
JANUARY	-	-	-	2.392E-04	2.257E-04	
FEBRUARY	-	-	-	7.532E-05	1.080E-04	
MARCH	-	-	-	9.387E-04	8.690E-05	
APRIL	-	-	-	-	2.390E-05	
MAY						
JUNE	-	-	-	-	-	
JULY	-	-	-	-	7.756E-07	
AUGUST						
SEPTEMBER	-	-	-	-	4.900E-06	
OCTOBER						
NOVEMBER	-	-	-	-	5.632E-06	
DECEMBER						
TOTAL				1.253E-03	4.559E-04	
	<u>Cs-137</u>	<u>Ce-141.144</u>	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	6.777E-04	-	1.152E-03	5.515E-03	2.861E-06	1.166E+05
FEBRUARY	3.262E-04	-	5.333E-04	2.836E-03	1.676E-06	5.078E+04
MARCH	3.515E-04	-	1.902E-05	3.981E-03	2.907E-06	1.928E+05
APRIL	1.076E-04	-	5.000E-06	1.259E-03	8.000E-07	1.488E+05
MAY						
JUNE	-	-	4.738E-06	7.385E-05	-	1.029E+05
JULY	4.071E-06	-	-	9.445E-05	5.540E-08	2.769E+04
AUGUST						
SEPTEMBER	2.205E-05	-	-	1.940E-04	-	4.899E+04
OCTOBER						
NOVEMBER	4.294E-05	-	1.562E-05	5.575E-05	3.520E-07	7.039E+04
DECEMBER						
TOTAL	1.532E-03	-	1.729E-03	1.401E-02	8.651E-06	7.593E+05

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
 Curies Released (Volume in Liters)

L Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	3.370E+02	1.089E+03	1.400E+01	1.600E+01	3.100E+01
FEBRUARY	2.160E+02	2.070E+03	2.800E+01	3.200E+01	6.000E+01
MARCH	3.800E+02	1.816E+03	2.300E+01	2.700E+01	5.100E+01
APRIL	2.200E+02	7.790E+02	-	-	-
MAY	4.530E+02	5.010E+02	-	-	-
JUNE	4.360E+02	5.960E+02	-	-	-
JULY	1.021E+03	1.070E+02	-	-	-
AUGUST	1.082E+03	-	-	-	-
SEPTEMBER	5.030E+02	-	-	-	-
OCTOBER	3.760E+02	-	-	-	-
NOVEMBER	3.250E+02	4.000E+01	-	-	-
DECEMBER	5.250E+02	9.740E+02	2.000E+00	1.100E+01	4.000E+00
TOTAL	5.874E+03	7.972E+03	6.700E+01	8.600E+01	1.460E+02
	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	6.100E+01	2.600E-05	4.000E-06	3.100E+01	2.300E+01
FEBRUARY	1.200E+02	-	4.000E-06	6.200E+01	4.600E+01
MARCH	1.010E+02	-	1.800E-05	5.200E+01	3.800E+01
APRIL	-	-	5.000E-06	-	7.000E+00
MAY	-	1.100E-05	4.000E-06	2.450E+02	4.000E+00
JUNE	-	-	1.500E-05	-	5.000E+00
JULY	1.000E+00	-	1.030E-04	1.000E+00	-
AUGUST	-	1.060E-04	3.400E-05	6.100E+01	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	1.000E+00
DECEMBER	1.700E+01	-	-	4.000E+00	1.600E+01
TOTAL	3.000E+02	1.430E-04	1.870E-04	4.560E+02	1.400E+02
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	5.400E+01	2.000E-06	6.500E-08	1.379E+11	1.404E+11
FEBRUARY	1.080E+02	1.000E-06	5.000E-08	1.200E+11	9.175E+10
MARCH	9.000E+01	5.000E-06	5.800E-08	1.823E+11	1.135E+11
APRIL	7.000E+00	9.000E-06	5.000E-08	1.268E+11	9.062E+10
MAY	2.490E+02	9.000E-06	3.000E-08	1.475E+11	9.062E+10
JUNE	5.000E+00	1.000E-06	9.000E-08	1.458E+11	1.132E+11
JULY	1.000E+00	2.000E-06	5.000E-08	1.795E+11	9.062E+10
AUGUST	6.100E+01	1.000E-06	6.000E-08	3.112E+11	1.132E+11
SEPTEMBER	-	3.000E-06	5.000E-08	2.489E+11	9.062E+10
OCTOBER	-	2.000E-06	6.000E-08	2.503E+11	9.062E+10
NOVEMBER	1.000E+00	2.000E-06	1.500E-07	1.931E+11	1.132E+11
DECEMBER	2.000E+01	8.000E-06	1.000E-09	1.053E+11	9.062E+10
TOTAL	5.960E+02	4.500E-05	7.140E-07	2.149E+12	1.229E+12

- Less than sensitivity of analysis

**RAW MATERIALS AREA
RADIOACTIVE LIQUID RELEASES FOR 1987**

Curies Released (Volume in Liters)

M Area (Liquid to Stream)

	<u>U-235.238</u>	<u>Volume</u>
JANUARY	4.050E-04	1.384E+08
FEBRUARY	2.275E-03	1.329E+08
MARCH	1.348E-03	1.485E+08
APRIL	5.900E-04	1.361E+08
MAY	8.680E-04	1.299E+08
JUNE	-	1.719E+08
JULY	-	1.302E+08
AUGUST	-	1.497E+08
SEPTEMBER	-	6.440E+07
OCTOBER	-	1.286E+08
NOVEMBER	-	1.626E+08
DECEMBER	-	1.473E+08
TOTAL	5.486E-03	1.641E+09

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

313 M

	<u>U-238</u>	<u>Volume</u>
JANUARY	2.816E-06	7.438E+10
FEBRUARY	9.756E-06	7.438E+10
MARCH	3.309E-06	7.438E+10
APRIL	3.520E-06	7.438E+10
MAY	5.030E-07	7.438E+10
JUNE	3.840E-07	7.438E+10
JULY	3.220E-07	7.438E+10
AUGUST	8.500E-08	7.438E+10
SEPTEMBER	4.800E-08	7.438E+10
OCTOBER	3.150E-07	7.438E+10
NOVEMBER	5.130E-07	7.438E+10
DECEMBER	6.220E-07	7.438E+10
TOTAL	2.219E-05	8.925E+11

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curies Released (Volume in Liters)

321 M

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.667E-06	3.744E+10
FEBRUARY	1.334E-06	3.744E+10
MARCH	1.058E-06	3.744E+10
APRIL	1.165E-06	3.744E+10
MAY	1.620E-06	3.744E+10
JUNE	1.135E-06	3.744E+10
JULY	1.886E-06	3.744E+10
AUGUST	2.539E-06	3.744E+10
SEPTEMBER	1.329E-06	3.744E+10
OCTOBER	5.120E-07	3.744E+10
NOVEMBER	3.220E-07	3.744E+10
DECEMBER	2.900E-07	3.744E+10
TOTAL	1.485E-05	4.492E+11

Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987
Curles Released (Volume in Liters)

322 M

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	6.050E-07	6.199E+07
FEBRUARY	2.210E-07	6.199E+07
MARCH	1.140E-07	6.199E+07
APRIL	8.000E-09	6.199E+07
MAY	1.300E-08	6.199E+07
JUNE	-	6.199E+07
JULY	-	6.199E+07
AUGUST	9.100E-08	6.199E+07
SEPTEMBER	-	6.199E+07
OCTOBER	-	6.199E+07
NOVEMBER	-	6.199E+07
DECEMBER	-	6.199E+07
TOTAL	1.052E-06	7.438E+08

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curies Released (Volume in Liters)

P-Area Heat Exchanger Cooling Water (Liquid to Par Pond)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	6.486E+01	2.655E+10
FEBRUARY	2.456E+01	2.425E+10
MARCH	1.077E+02	3.318E+09
APRIL	2.085E+01	3.266E+09
MAY	6.667E+01	4.579E+09
JUNE	7.307E+01	2.769E+10
JULY	6.020E+01	2.655E+10
AUGUST	2.224E+01	2.655E+10
SEPTEMBER	1.481E+02	3.319E+10
OCTOBER	1.090E+02	2.655E+10
NOVEMBER	6.931E+01	2.655E+10
DECEMBER	1.201E+01	3.319E+10
TOTAL	7.786E+02	2.623E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curies Released (Volume in Liters)

P-Area Process Sewer (Liquid to Par Pond)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	5.893E+00	-	-	-	-
FEBRUARY	2.353E+01	-	-	-	-
MARCH	1.334E+01	-	-	-	-
APRIL	3.270E+01	-	-	-	-
MAY	7.137E+00	-	-	-	-
JUNE	5.769E+00	-	-	-	-
JULY	1.661E+01	-	-	-	-
AUGUST	1.109E+01	-	-	-	-
SEPTEMBER	1.607E+01	-	-	-	-
OCTOBER	1.398E+01	-	-	-	-
NOVEMBER	1.146E+01	-	-	-	-
DECEMBER	3.417E+00	-	-	-	-
TOTAL	1.610E+02				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	3.633E+08
FEBRUARY	-	4.749E+08
MARCH	-	4.069E+08
APRIL	-	3.599E+08
MAY	-	4.079E+08
JUNE	-	5.899E+08
JULY	-	6.329E+08
AUGUST	-	6.349E+08
SEPTEMBER	-	6.089E+08
OCTOBER	-	6.119E+08
NOVEMBER	-	5.429E+08
DECEMBER	-	4.189E+08
TOTAL		6.054E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curies Released (Volume in Liters)

P Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>
JANUARY					
FEBRUARY	1.918E+02	1.167E-05	1.973E-03	3.045E-03	1.624E-04
MARCH	9.117E+02	-	4.562E-03	4.148E-03	-
APRIL	6.566E+02	-	1.596E-03	4.653E-03	-
MAY	1.022E+02	-	4.320E-03	3.473E-02	3.248E-04
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	1.862E+03	1.167E-05	1.245E-02	4.658E-02	4.872E-04

	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103.106</u>
JANUARY				
FEBRUARY	9.892E-04	4.415E-04	2.377E-05	3.000E-06
MARCH	-	-	1.385E-04	3.996E-06
APRIL	-	9.120E-05	-	-
MAY	2.035E-04	5.698E-05	3.172E-04	2.599E-06
JUNE				
JULY				
AUGUST				
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER				
TOTAL	1.192E-03	5.896E-04	4.795E-04	9.595E-06

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
 Curies Released (Volume in Liters)

P Area (Purges to Seepage Basins), CONT'D.

	<u>Sb-124.125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141.144</u>
JANUARY					
FEBRUARY	6.523E-05	6.145E-04	2.809E-04	1.245E-03	2.160E-05
MARCH	-	1.061E-02	4.462E-04	1.107E-02	2.649E-05
APRIL	-	5.830E-03	-	3.002E-03	-
MAY	-	1.295E-02	4.041E-04	1.261E-02	8.157E-04
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	6.523E-05	3.001E-02	1.221E-03	2.793E-02	8.638E-04

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY				
FEBRUARY	2.118E-03	9.869E-03	1.004E-05	4.335E+05
MARCH	3.384E-04	1.983E-02	1.174E-04	3.357E+06
APRIL	-	1.208E-02	9.120E-06	2.279E+06
MAY	1.402E-04	5.555E-02	3.874E-05	6.538E+06
JUNE				
JULY				
AUGUST				
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER				
TOTAL	2.606E-03	9.734E-02	1.753E-04	1.261E+07

- Less than sensitivity of analysis

REACTOR AREA RADIOACTIVE ATMOSPHERIC RELEASES FOR 1987

Curies Released (Volume in Liters)

P Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	4.221E+03	7.206E+03	2.080E+02	9.900E+01	2.140E+02
FEBRUARY	3.939E+03	5.566E+03	1.800E+02	9.900E+01	1.950E+02
MARCH	3.693E+03	7.003E+03	1.970E+02	1.140E+02	2.140E+02
APRIL	4.002E+03	-	-	-	-
MAY	4.599E+03	-	-	-	-
JUNE	4.872E+03	1.259E+03	5.900E+01	8.000E+00	2.100E+01
JULY	5.571E+03	2.549E+03	7.800E+01	2.100E+01	4.300E+01
AUGUST	6.817E+03	2.867E+03	9.000E+01	2.800E+01	7.100E+01
SEPTEMBER	5.082E+03	2.726E+03	9.500E+01	4.200E+01	9.100E+01
OCTOBER	3.472E+03	2.963E+03	1.160E+02	5.200E+01	1.270E+02
NOVEMBER	2.675E+03	3.971E+03	1.780E+02	1.110E+02	2.380E+02
DECEMBER	4.726E+03	2.804E+03	1.870E+02	1.330E+02	2.430E+02
TOTAL	5.366E+04	3.891E+04	1.388E+03	7.070E+02	1.457E+03
	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	5.210E+02	-	1.770E-04	5.140E+02	3.480E+02
FEBRUARY	4.740E+02	1.200E-05	2.730E-04	3.630E+02	3.500E+02
MARCH	5.250E+02	-	3.660E-04	4.160E+02	4.370E+02
APRIL	-	2.728E-03	2.815E-03	-	-
MAY	-	4.240E-04	5.200E-04	-	-
JUNE	8.800E+01	-	3.400E-05	4.400E+01	7.200E+01
JULY	1.420E+02	3.000E-06	-	1.460E+02	1.770E+02
AUGUST	1.890E+02	3.500E-05	-	2.110E+02	2.360E+02
SEPTEMBER	2.280E+02	-	-	2.460E+02	2.800E+02
OCTOBER	2.950E+02	-	-	2.750E+02	3.080E+02
NOVEMBER	5.270E+02	-	-	4.090E+02	5.590E+02
DECEMBER	5.630E+02	-	-	4.300E+02	5.510E+02
TOTAL	3.552E+03	3.202E-03	4.185E-03	3.054E+03	3.318E+03
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	8.620E+02	1.200E-05	1.200E-07	1.449E+11	1.008E+11
FEBRUARY	7.130E+02	7.000E-06	1.600E-07	1.614E+11	1.008E+11
MARCH	8.530E+02	9.000E-06	1.400E-07	1.517E+11	1.260E+11
APRIL	-	6.200E-05	2.700E-07	2.747E+11	1.008E+11
MAY	-	1.100E-05	2.100E-07	2.290E+11	1.008E+11
JUNE	1.160E+02	4.000E-06	1.600E-07	2.293E+11	1.260E+11
JULY	3.230E+02	8.000E-06	1.600E-07	1.331E+11	1.008E+11
AUGUST	4.470E+02	8.000E-06	1.300E-07	1.687E+11	1.260E+11
SEPTEMBER	5.260E+02	7.000E-06	2.800E-07	1.376E+11	9.855E+10
OCTOBER	5.830E+02	4.600E-05	1.700E-07	1.240E+11	1.008E+11
NOVEMBER	9.680E+02	1.180E-04	8.000E-07	1.614E+11	1.260E+11
DECEMBER	9.810E+02	6.000E-06	1.700E-07	1.322E+11	1.322E+11
TOTAL	6.372E+03	2.980E-04	2.770E-06	2.048E+12	1.339E+12

- Less than sensitivity of analysis

TNX AREA
RADIOACTIVE LIQUID RELEASES FOR 1987
Curies Released (Volume in Liters)

CMX-TNX (Liquid to Seepage Basin)

	<u>Un I.D. Beta+Gamma</u>	<u>U-235,238</u>	<u>Volume</u>
JANUARY	-	2.000E-06	1.889E+05
FEBRUARY	-	-	1.889E+05
MARCH	-	-	1.892E+05
APRIL	-	-	1.889E+05
MAY	-	-	1.889E+05
JUNE	-	-	1.139E+05
JULY	-	-	1.889E+05
AUGUST	-	-	1.889E+05
SEPTEMBER	-	-	1.889E+05
OCTOBER	-	-	1.139E+05
NOVEMBER	-	-	1.139E+05
DECEMBER	-	-	1.139E+05
TOTAL		2.000E-06	1.968E+06

- Less than sensitivity of analysis

TECHNICAL AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
Curles Released (Volume in Liters)

A Area (Liquid to Stream)

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	7.800E-05	1.800E-05	3.313E+07
FEBRUARY	1.080E-04	5.100E-05	3.313E+07
MARCH	4.300E-05	5.000E-06	3.970E+07
APRIL	5.600E-05	9.000E-06	4.579E+07
MAY	5.600E-05	-	3.313E+07
JUNE	3.700E-05	6.000E-06	3.313E+07
JULY	3.900E-05	5.000E-06	3.313E+07
AUGUST	8.500E-05	2.300E-05	3.313E+07
SEPTEMBER	3.500E-05	7.000E-06	4.579E+07
OCTOBER	6.900E-05	1.400E-05	4.579E+07
NOVEMBER	1.640E-04	4.900E-05	5.724E+07
DECEMBER	5.300E-05	1.900E-05	5.724E+07
TOTAL	8.230E-04	2.060E-04	4.904E+08

- Less than sensitivity of analysis

TECHNICAL AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curles Released (Volume in Liters)

A Area

	<u>Tritium</u>	<u>Co-60</u>	<u>I-131</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	1.170E-04	3.000E-06	1.000E-06	2.714E+11
FEBRUARY	-	-	1.140E-04	4.000E-06	1.000E-06	2.714E+11
MARCH	-	-	7.600E-05	6.000E-06	2.000E-06	2.714E+11
APRIL	-	-	6.310E-04	2.000E-06	1.000E-06	2.714E+11
MAY	-	-	7.600E-04	3.000E-06	1.000E-06	2.714E+11
JUNE	-	-	5.800E-05	3.000E-06	2.000E-06	2.714E+11
JULY	-	-	1.870E-04	2.000E-06	-	2.714E+11
AUGUST	-	-	6.000E-05	2.000E-06	-	2.714E+11
SEPTEMBER	-	-	7.700E-05	2.000E-06	-	-
OCTOBER	-	-	2.000E-05	2.000E-06	1.000E-06	2.714E+11
NOVEMBER	-	-	9.000E-06	3.000E-06	1.000E-06	2.714E+11
DECEMBER	-	-	2.000E-05	2.000E-06	-	2.714E+11
TOTAL			2.129E-03	3.400E-05	1.000E-05	2.985E+12

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

C-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	4.390E-01	-	-	-	-
FEBRUARY	8.530E-01	-	-	-	-
MARCH	2.488E+00	-	-	-	-
APRIL	1.224E+00	-	-	-	-
MAY	2.960E-01	-	-	-	-
JUNE	3.080E-01	-	-	-	-
JULY	6.060E-01	-	-	-	-
AUGUST	3.979E+00	-	-	-	-
SEPTEMBER	3.750E-01	-	-	-	-
OCTOBER	6.000E-02	-	-	-	-
NOVEMBER	1.540E-01	-	-	-	-
DECEMBER	5.500E-02	-	-	-	-
TOTAL	1.083E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	8.299E+06
FEBRUARY	-	7.899E+06
MARCH	-	8.439E+06
APRIL	-	8.439E+06
MAY	-	8.439E+06
JUNE	-	8.179E+06
JULY	-	8.399E+06
AUGUST	-	8.399E+06
SEPTEMBER	4.000E-06	8.399E+06
OCTOBER	-	8.399E+06
NOVEMBER	-	8.399E+06
DECEMBER	8.000E-06	8.399E+06
TOTAL	1.200E-05	1.000E+08

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

C Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	1.860E+02	-	-	-	-
FEBRUARY	1.860E+02	-	-	-	-
MARCH	1.860E+02	-	-	-	-
APRIL	1.860E+02	-	-	-	-
MAY	1.860E+02	-	-	-	-
JUNE	1.800E+02	-	-	-	-
JULY	1.860E+02	-	-	-	-
AUGUST	1.860E+02	-	-	-	-
SEPTEMBER	1.860E+02	-	-	-	-
OCTOBER	1.860E+02	-	-	-	-
NOVEMBER	1.860E+02	-	-	-	-
DECEMBER	1.860E+02	-	-	-	-

TOTAL 2.226E+03

	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	-	6.000E-06	1.300E-07	1.050E+11	7.504E+10
FEBRUARY	-	7.700E-05	5.390E-07	1.415E+11	1.132E+11
MARCH	-	1.400E-05	2.500E-07	1.132E+11	9.062E+10
APRIL	-	7.000E-06	2.100E-07	1.132E+11	9.062E+10
MAY	-	8.000E-06	8.000E-09	1.455E+11	1.163E+11
JUNE	-	8.000E-06	8.000E-09	2.653E+10	6.995E+10
JULY	-	7.000E-06	1.300E-08	4.587E+10	9.005E+10
AUGUST	-	9.000E-06	2.120E-07	1.415E+11	1.132E+11
SEPTEMBER	-	6.000E-06	1.600E-07	5.862E+10	9.345E+10
OCTOBER	-	1.100E-05	6.100E-07	1.132E+11	1.132E+11
NOVEMBER	-	9.000E-06	5.200E-07	8.580E+10	9.062E+10
DECEMBER	-	-	2.400E-08	1.050E+11	8.694E+10
TOTAL		1.620E-04	2.684E-06	1.195E+12	1.143E+12

- Less than sensitivity of analysis

D AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

D-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89,90</u>	<u>Cs-134,137</u>	<u>Unl.D.Beta+Gamma</u>	<u>Unl.D.Alpha</u>	<u>Volume</u>
JANUARY	4.860E+02	-	-	-	-	2.699E+08
FEBRUARY	4.483E+02	-	-	-	-	2.519E+08
MARCH	3.284E+02	-	-	-	-	2.669E+08
APRIL	2.099E+02	-	-	-	-	2.609E+08
MAY	1.116E+02	-	-	-	-	2.699E+06
JUNE	5.913E+00	-	-	-	-	2.609E+08
JULY	5.655E+00	-	-	-	-	2.699E+05
AUGUST	2.568E+01	-	-	-	-	2.699E+08
SEPTEMBER	1.721E+01	-	-	-	-	2.609E+08
OCTOBER	0.323E+01	-	-	-	-	2.699E+08
NOVEMBER	1.720E+01	-	-	-	-	2.609E+08
DECEMBER	2.896E+00	-	-	2.000E-06	-	2.699E+08
TOTAL	1.742E+03			2.000E-06		2.645E+09

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curies Released (Volume in Liters)

420 D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.255E+01	-	-	6.819E+09
FEBRUARY	1.788E+01	-	-	6.819E+09
MARCH	2.446E+01	-	-	6.819E+09
APRIL	3.356E+01	-	-	6.819E+09
MAY	3.154E+01	-	-	6.819E+09
JUNE	2.195E+01	-	-	6.819E+09
JULY	1.689E+00	-	-	6.819E+09
AUGUST	2.614E+01	-	-	6.819E+09
SEPTEMBER	2.475E+01	-	-	6.819E+09
OCTOBER	2.389E+01	-	-	6.819E+09
NOVEMBER	1.947E+01	-	-	6.819E+09
DECEMBER	2.522E+01	-	-	6.819E+09
TOTAL	2.631E+02			8.182E+10

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

421-2D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	2.189E+00	2.000E-06	-	1.050E+10
FEBRUARY	3.835E+00	3.000E-06	-	1.050E+10
MARCH	2.404E+00	2.000E-06	-	1.050E+10
APRIL	1.862E+00	2.000E-06	-	1.050E+10
MAY	1.514E+01	-	-	1.050E+10
JUNE	4.675E+00	2.000E-06	-	1.050E+10
JULY	3.996E+00	2.000E-06	-	1.050E+10
AUGUST	9.288E+00	1.000E-06	-	1.050E+10
SEPTEMBER	3.766E+00	1.000E-06	-	1.050E+10
OCTOBER	4.438E+00	1.000E-06	-	1.050E+10
NOVEMBER	6.300E-01	-	-	1.050E+10
DECEMBER	6.600E-01	-	-	1.050E+10
TOTAL	5.289E+01	1.600E-05		1.260E+11

- Less than sensitivity of analysis

D AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

772 D

	<u>Tritium</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	7.470E-01	-	-	9.174E+09
FEBRUARY	5.120E-01	-	-	9.174E+09
MARCH	5.610E-01	-	1.000E-06	9.174E+09
APRIL	5.300E-01	-	1.000E-06	9.174E+09
MAY	3.140E-01	-	-	9.174E+09
JUNE	3.140E-01	-	-	9.174E+09
JULY	2.270E-01	-	-	9.174E+09
AUGUST	1.779E+00	-	-	9.174E+09
SEPTEMBER	1.396E+00	-	-	9.174E+09
OCTOBER	2.376E+00	-	-	9.174E+09
NOVEMBER	2.543E+00	-	-	9.174E+09
DECEMBER	1.699E+00	-	-	9.174E+09
TOTAL	1.300E+01		2.000E-06	1.100E+11

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1988**

F Area (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103.106</u>	<u>Cs-134.137</u>
JANUARY	7.190E-01	1.400E-04	-	-	-	2.564E-03
FEBRUARY	1.067E+00	1.421E-03	-	-	-	8.907E-03
MARCH	7.880E-01	1.265E-03	-	-	-	1.663E-02
APRIL	8.360E-01	1.708E-03	-	-	-	7.808E-03
MAY	1.920E+00	1.556E-03	-	-	-	1.202E-02
JUNE	1.092E+00	8.310E-04	-	-	-	4.787E-03
JULY	1.056E+00	2.076E-03	-	-	-	6.242E-03
AUGUST	3.325E+00	3.265E-03	-	-	-	1.111E-02
SEPTEMBER	1.175E+00	8.200E-04	-	-	-	2.751E-03
OCTOBER	1.079E+00	-	-	-	-	1.931E-03
NOVEMBER	4.530E-01	-	-	-	-	5.370E-04
DECEMBER	2.800E-01	-	-	-	-	1.900E-04
TOTAL	1.379E+01	1.308E-02				7.549E-02

	<u>Ce-141.144</u>	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	2.107E-03	1.490E-04	1.973E+08
FEBRUARY	-	-	6.100E-04	3.670E-04	2.280E+08
MARCH	-	-	1.890E-04	2.620E-04	2.488E+08
APRIL	-	-	6.314E-03	3.200E-04	2.126E+08
MAY	-	-	2.680E-03	2.480E-04	2.273E+07
JUNE	-	-	2.471E-03	2.860E-04	2.264E+07
JULY	-	1.600E-02	3.404E-03	2.730E-04	2.285E+07
AUGUST	-	3.511E-03	1.108E-03	4.980E-04	3.900E+08
SEPTEMBER	-	-	3.406E-03	2.400E-04	2.322E+08
OCTOBER	-	-	-	4.840E-04	3.103E+08
NOVEMBER	-	-	1.821E-03	8.440E-04	3.258E+08
DECEMBER	-	-	1.336E-03	6.980E-04	1.775E+08
TOTAL		1.951E-02	2.544E-02	4.669E-03	2.391E+09

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1988**

F Area (Liquid to Seepage Basins)

	<u>Tritium</u>	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	3.327E+02	-	-	2.988E-03	3.332E-03
FEBRUARY	2.291E+02	-	1.000E-03	3.707E-03	3.616E-03
MARCH	5.113E+02	-	-	4.982E-03	2.984E-03
APRIL	2.442E+02	-	1.000E-03	1.392E-03	3.544E-03
MAY	1.227E+02	-	-	3.333E-03	1.931E-03
JUNE	4.163E+01	-	-	1.647E-05	2.354E-05
JULY	1.853E+02	-	-	5.600E-05	7.096E-04
AUGUST	2.762E+02	1.000E-03	1.000E-03	3.067E-04	1.405E-03
SEPTEMBER	9.612E+02	2.000E-03	4.000E-03	1.164E-03	3.307E-03
OCTOBER	2.328E+02	1.000E-03	1.000E-03	7.400E-07	1.841E-03
NOVEMBER	4.044E+00	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	3.141E+03	4.000E-03	8.000E-03	1.794E-02	2.269E-02
	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>
JANUARY	-	2.569E-02	-	2.209E-05	9.222E-02
FEBRUARY	-	1.107E-02	-	-	1.116E-01
MARCH	-	2.520E-02	-	-	1.126E-01
APRIL	-	3.773E-03	-	5.454E-05	1.373E-01
MAY	-	3.792E-03	-	1.524E-04	1.761E-01
JUNE	-	9.524E-04	-	2.610E-04	2.159E-01
JULY	-	5.036E-03	-	3.163E-05	8.048E-02
AUGUST	-	6.322E-03	-	-	8.232E-02
SEPTEMBER	-	3.644E-02	-	-	2.580E-01
OCTOBER	-	1.325E-02	-	1.128E-05	1.331E-01
NOVEMBER	-	-	-	5.759E-05	9.368E-02
DECEMBER	-	-	-	-	-
TOTAL			1.315E-01	5.906E-04	1.493E+00

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1988**

F Area (Liquid to Seepage Basins), CONT'D.

	<u>Ce-141</u>	<u>Ce-144</u>	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>
JANUARY	1.104E-05	4.084E-03	-	-	1.988E-05	3.796E-05
FEBRUARY	-	2.077E-03	1.000E-03	-	6.284E-05	1.485E-04
MARCH	-	1.202E-02	3.000E-03	-	1.212E-03	6.382E-04
APRIL	-	3.204E-04	1.000E-03	-	2.437E-05	4.255E-05
MAY	-	2.099E-03	2.000E-03	-	1.167E-04	8.951E-05
JUNE	-	-	1.000E-03	-	4.220E-06	6.671E-06
JULY	-	1.752E-03	1.000E-03	2.616E-05	4.179E-05	2.892E-05
AUGUST	-	3.217E-04	4.000E-03	-	3.893E-04	1.221E-03
SEPTEMBER	-	2.217E-02	3.300E-02	-	2.753E-04	6.379E-04
OCTOBER	-	1.124E-02	1.600E-02	-	1.455E-04	6.046E-05
NOVEMBER	-	-	1.000E-03	-	1.411E-05	5.433E-06
DECEMBER	-	-	-	-	-	-
TOTAL	1.104E-05	5.609E-02	6.300E-02	2.616E-05	2.307E-03	2.918E-03

	<u>U-235,238</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.209E-03	2.543E-04	6.842E-05	1.590E-03	6.375E+06
FEBRUARY	1.027E-03	3.399E-04	1.261E-04	1.705E-03	4.131E+06
MARCH	4.537E-03	3.443E-03	9.269E-04	1.075E-02	9.582E+06
APRIL	9.759E-04	1.181E-05	1.214E-05	1.066E-03	4.586E+06
MAY	1.242E-03	1.077E-04	3.882E-05	1.594E-03	4.436E+06
JUNE	5.726E-05	2.162E-06	5.797E-06	7.557E-05	1.104E+06
JULY	1.117E-03	2.138E-05	1.253E-05	1.221E-03	2.534E+06
AUGUST	3.661E-03	7.339E-05	4.673E-05	5.393E-03	1.325E+07
SEPTEMBER	4.897E-03	1.092E-04	4.958E-05	5.969E-03	1.721E+07
OCTOBER	3.146E-03	2.477E-05	1.651E-05	3.382E-03	9.156E+06
NOVEMBER	5.017E-05	7.464E-06	8.708E-06	8.589E-05	4.185E+06
DECEMBER	-	-	-	-	-
TOTAL	2.192E-02	4.396E-03	1.312E-03	3.284E-02	7.656E+07

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988**

200-F Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	-	-	-	1.600E-05	1.700E-05	1.270E-04
FEBRUARY	-	-	-	2.600E-05	5.200E-05	1.270E-04
MARCH	-	-	3.000E-06	2.500E-05	8.800E-05	4.480E-04
APRIL	3.200E-05	-	-	3.600E-05	1.200E-05	5.400E-05
MAY	-	-	-	1.880E-04	4.100E-05	1.490E-04
JUNE	-	-	-	2.300E-05	-	3.000E-06
JULY	-	-	-	1.190E-04	9.000E-06	7.600E-05
AUGUST	-	-	-	5.100E-05	3.100E-05	1.700E-04
SEPTEMBER	-	-	-	1.230E-04	4.200E-05	1.320E-04
OCTOBER	-	-	-	7.700E-05	2.500E-05	1.180E-04
NOVEMBER	-	-	-	6.000E-06	-	-
DECEMBER	-	-	-	4.000E-06	-	-
TOTAL	3.200E-05		3.000E-06	6.940E-04	3.170E-04	1.404E-03

	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	5.000E-06	2.431E-03	-	-	5.200E-05	-
FEBRUARY	1.900E-05	3.992E-03	-	-	4.000E-05	-
MARCH	1.500E-05	1.084E-03	-	-	4.900E-05	-
APRIL	-	3.220E-04	-	-	1.800E-05	-
MAY	-	5.080E-04	-	-	6.500E-05	-
JUNE	-	1.590E-04	-	-	8.000E-06	-
JULY	8.000E-06	1.463E-03	-	-	1.280E-04	-
AUGUST	-	1.660E-04	-	-	4.600E-05	-
SEPTEMBER	-	3.890E-04	-	-	9.000E-05	-
OCTOBER	-	7.190E-04	-	-	3.800E-05	-
NOVEMBER	-	8.900E-05	-	-	-	-
DECEMBER	-	1.180E-04	-	-	-	-
TOTAL	4.700E-05	1.144E-02			5.340E-04	

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988**

200-F Stacks, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	2.930E-04	-	9.000E-06	6.000E-06	1.150E-04
FEBRUARY	2.970E-04	-	6.000E-06	7.000E-06	1.660E-04
MARCH	3.270E-04	-	3.000E-06	1.000E-06	1.220E-04
APRIL	4.700E-05	-	1.300E-05	7.000E-06	6.500E-05
MAY	1.460E-04	-	8.000E-06	1.200E-05	1.260E-04
JUNE	6.100E-05	-	5.000E-06	1.200E-05	8.100E-05
JULY	5.930E-04	2.320E-04	8.000E-06	6.000E-06	7.600E-05
AUGUST	2.490E-04	-	6.000E-06	3.000E-06	3.900E-05
SEPTEMBER	4.390E-04	-	6.000E-06	7.000E-06	6.100E-05
OCTOBER	2.550E-04	-	3.000E-06	2.000E-06	7.000E-05
NOVEMBER	-	-	1.000E-06	-	1.340E-04
DECEMBER	-	-	1.000E-06	-	1.660E-04

TOTAL	2.707E-03	2.320E-04	6.900E-05	6.300E-05	1.221E-03
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	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	3.300E-05	6.000E-06	2.700E-05	-	4.276E+11
FEBRUARY	1.870E-04	1.730E-04	1.400E-05	-	3.421E+11
MARCH	1.300E-05	2.000E-06	1.100E-05	-	3.421E+11
APRIL	1.400E-05	4.000E-06	1.000E-05	-	3.421E+11
MAY	5.500E-05	3.800E-05	1.700E-05	-	4.276E+11
JUNE	1.700E-05	5.000E-06	1.200E-05	-	3.421E+11
JULY	6.100E-05	9.000E-06	5.200E-05	-	4.276E+11
AUGUST	3.100E-05	4.000E-06	2.700E-05	-	3.421E+11
SEPTEMBER	4.100E-05	4.000E-06	3.700E-05	-	3.421E+11
OCTOBER	5.400E-05	5.000E-06	4.900E-05	-	4.276E+11
NOVEMBER	2.400E-05	1.100E-05	1.300E-05	-	3.421E+11
DECEMBER	2.300E-05	1.000E-05	1.200E-05	-	3.421E+11

TOTAL	5.530E-04	2.710E-04	2.810E-04	-	4.447E+12
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- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curles Released (Volume in Liters)

235-F Sandfilter Discharge

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curles Released (Volume in Liters)

235-F Sandfilter Discharge, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	-	-	-	-	3.670E+10
MAY	-	-	-	-	3.670E+10
JUNE	-	-	-	-	3.670E+10
JULY	-	-	-	-	3.670E+10
AUGUST	-	-	-	-	3.670E+10
SEPTEMBER	-	-	-	-	3.670E+10
OCTOBER	-	-	-	-	3.670E+10
NOVEMBER	-	-	-	-	3.421E+10
DECEMBER	-	-	-	-	3.421E+10
TOTAL					3.253E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988

Curles Released (Volume in Liters)

247-F Naval Fuel Stacks

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>U-235,238</u>	<u>Volume</u>
JANUARY	-	-	-	1.554E+11
FEBRUARY	-	-	-	1.554E+11
MARCH	-	-	-	1.554E+11
APRIL	-	-	-	1.554E+11
MAY	-	-	-	1.554E+11
JUNE	-	-	-	1.554E+11
JULY	-	-	-	1.554E+11
AUGUST	-	-	-	1.554E+11
SEPTEMBER	-	-	-	1.554E+11
OCTOBER	-	-	-	1.554E+11
NOVEMBER	-	-	-	1.554E+11
DECEMBER	-	-	-	1.554E+11
TOTAL				1.865E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

772-F Stack

	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-	-
FEBRUARY	-	-	-	-	-	-
MARCH	-	-	4.000E-06	-	-	-
APRIL	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUNE	-	-	-	-	-	-
JULY	-	-	1.140E-04	-	-	-
AUGUST	-	-	2.300E-05	-	-	-
SEPTEMBER	-	-	-	-	-	-
OCTOBER	-	-	5.000E-06	2.800E-05	3.800E-05	-
NOVEMBER	-	-	2.500E-05	-	-	-
DECEMBER	-	-	2.500E-05	-	-	-
TOTAL			1.960E-04	2.800E-05	3.800E-05	

	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	7.000E-06	-
MARCH	-	-	2.000E-06	2.400E-05	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	1.800E-05	-
JULY	-	-	4.000E-06	1.400E-05	-
AUGUST	-	-	2.000E-06	3.500E-05	-
SEPTEMBER	-	-	4.000E-06	5.400E-05	2.000E-06
OCTOBER	-	-	-	2.000E-05	1.400E-05
NOVEMBER	-	-	4.000E-06	3.200E-05	-
DECEMBER	-	-	2.200E-05	1.850E-04	-
TOTAL			3.800E-05	3.890E-04	1.600E-05

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988

Curies Released (Volume in Liters)

772-F Stack, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>
JANUARY	-	-	1.670E-04	1.670E-04	-
FEBRUARY	6.000E-06	-	-	-	-
MARCH	8.000E-06	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	5.000E-06	-	-	-	-
JULY	1.500E-05	-	-	-	-
AUGUST	9.000E-06	-	-	-	-
SEPTEMBER	1.700E-05	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	2.000E-05	-	-	-	-
DECEMBER	4.700E-05	-	4.700E-05	4.200E-05	5.000E-06
TOTAL	1.270E-04	-	2.140E-04	2.090E-04	5.000E-06

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	4.000E-06	1.222E+11
FEBRUARY	1.500E-05	1.222E+11
MARCH	2.000E-05	1.585E+09
APRIL	1.900E-05	1.585E+09
MAY	2.500E-05	3.052E+10
JUNE	2.600E-05	3.052E+10
JULY	2.700E-05	3.052E+10
AUGUST	2.100E-05	7.363E+11
SEPTEMBER	7.600E-05	1.221E+11
OCTOBER	-	1.221E+11
NOVEMBER	1.600E-05	7.581E+10
DECEMBER	2.400E-05	7.581E+10
TOTAL	2.730E-04	1.471E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

A-Line F Stack

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY					
FEBUARY					
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>	<u>Ce-144</u>
JANUARY					
FEBUARY					
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Un.I.D.Beta+Gamma</u>	<u>U-235.238</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY				
FEBUARY				
MARCH	-	1.350E-04	-	-
APRIL	-	-	-	3.545E+09
MAY	-	-	-	4.440E+09
JUNE	-	-	-	4.440E+09
JULY	-	-	-	4.440E+09
AUGUST	-	-	-	4.440E+09
SEPTEMBER	-	-	-	4.440E+09
OCTOBER	-	-	-	4.440E+09
NOVEMBER	-	-	-	4.440E+09
DECEMBER	-	-	-	-
TOTAL		1.350E-04		3.462E+10

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

F & H Area Waste Tanks Exhaust

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	-	-	-	-
FEBRUARY	-	-	-	-
MARCH	-	-	-	-
APRIL	-	-	-	-
MAY	-	-	-	-
JUNE	-	-	-	-
JULY	-	-	-	-
AUGUST	-	-	-	-
SEPTEMBER	-	-	-	-
OCTOBER	-	-	-	-
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-
TOTAL				
	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	9.000E-06	-
FEBRUARY	9.000E-06	4.000E-06	5.700E-05	-
MARCH	3.000E-06	5.000E-06	6.000E-05	-
APRIL	-	-	1.300E-05	-
MAY	-	-	-	-
JUNE	-	-	3.000E-05	-
JULY	-	-	5.900E-05	-
AUGUST	-	-	8.000E-06	-
SEPTEMBER	-	-	-	-
OCTOBER	3.000E-06	-	7.000E-06	-
NOVEMBER	3.000E-05	-	1.900E-05	-
DECEMBER	3.300E-05	-	6.000E-06	-
TOTAL	7.800E-05	9.000E-06	2.680E-04	
	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	1.000E-06	-	-	9.025E+10
FEBRUARY	7.000E-06	-	-	9.164E+10
MARCH	2.300E-05	-	-	9.164E+10
APRIL	-	-	-	9.164E+10
MAY	-	-	-	9.136E+10
JUNE	5.000E-06	-	-	9.136E+10
JULY	2.000E-06	-	-	9.136E+10
AUGUST	-	-	2.000E-06	9.136E+10
SEPTEMBER	-	-	6.000E-06	9.136E+10
OCTOBER	-	-	1.500E-05	9.136E+10
NOVEMBER	1.000E-06	-	-	9.136E+10
DECEMBER	1.000E-06	-	-	9.136E+10
TOTAL	4.000E-05		2.300E-05	1.096E+12

- Less than sensitivity of analysis

**SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1988**

H Area (Liquid to Stream)

	<u>Tritium</u>	<u>Sr-89.90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103.106</u>	<u>Cs-134.137</u>
JANUARY	1.640E+00	4.840E-04	-	-	-	3.990E-04
FEBRUARY	6.710E-01	2.170E-04	-	-	-	2.240E-04
MARCH	7.110E-01	-	-	-	-	2.950E-04
APRIL	1.087E+00	1.270E-04	-	-	-	9.670E-04
MAY	3.080E-01	1.000E-05	-	-	-	7.960E-04
JUNE	1.486E+00	3.000E-05	-	-	-	3.440E-04
JULY	8.500E-01	1.700E-04	-	-	-	2.009E-02
AUGUST	1.692E+00	-	-	-	-	1.130E-02
SEPTEMBER	1.506E+00	-	-	-	-	2.041E-03
OCTOBER	1.229E+00	-	-	-	-	2.033E-03
NOVEMBER	5.520E-01	-	-	-	-	6.170E-04
DECEMBER	3.410E-01	-	-	-	-	1.033E-03
TOTAL	1.207E+01	1.038E-03				4.013E-02

	<u>Ce-141.144</u>	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	1.961E-03	7.400E-05	1.134E+08
FEBRUARY	-	-	7.070E-04	3.000E-06	1.080E+08
MARCH	-	-	2.720E-04	3.600E-05	5.725E+07
APRIL	-	-	-	2.700E-05	4.884E+07
MAY	-	-	9.700E-05	2.700E-05	4.482E+07
JUNE	-	-	1.490E-04	7.000E-06	3.287E+07
JULY	-	-	1.868E-03	3.500E-05	4.739E+07
AUGUST	-	-	2.630E-04	3.800E-05	6.123E+07
SEPTEMBER	-	-	-	8.200E-05	6.793E+07
OCTOBER	-	-	-	1.270E-04	1.233E+08
NOVEMBER	-	-	7.370E-04	1.030E-04	6.424E+07
DECEMBER	-	-	2.310E-04	9.000E-05	6.172E+07
TOTAL			6.285E-03	6.490E-04	8.313E+08

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVITY LIQUID RELEASES FOR 1988
Curies Released (Volume in Liters)

H Area (Liquid to Seepage Basins)

	<u>Tritium</u>	<u>Cr-51</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zn-65</u>
JANUARY	7.131E+02	7.058E-04	-	-	-
FEBRUARY	4.889E+02	-	-	7.557E-05	2.736E-04
MARCH	1.205E+03	-	-	8.754E-06	2.918E-04
APRIL	1.839E+03	-	5.336E-06	9.338E-06	2.668E-04
MAY	5.002E+03	-	-	-	-
JUNE	3.860E+02	-	-	-	3.964E-05
JULY	8.211E+01	-	1.541E-04	2.066E-04	3.496E-04
AUGUST	2.512E+01	-	7.854E-05	2.279E-04	1.405E-03
SEPTEMBER	5.412E+01	-	3.974E-05	5.962E-05	1.893E-03
OCTOBER	5.402E+01	-	-	-	1.946E-04
NOVEMBER	2.582E-02	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL 9.851E+03 7.058E-04 2.777E-04 5.878E-04 4.714E-03

	<u>Sr-89-90</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>	<u>Ru-106</u>
JANUARY	1.163E-04	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	1.119E-02	-	-	-	8.000E-03
APRIL	6.214E-03	-	-	-	1.648E-02
MAY	5.754E-03	-	-	-	1.609E-02
JUNE	2.105E-03	-	-	-	2.223E-03
JULY	2.233E-03	-	-	-	-
AUGUST	1.571E-03	-	-	-	-
SEPTEMBER	2.134E-03	9.119E-05	3.291E-04	-	-
OCTOBER	1.262E-03	5.585E-04	1.402E-03	-	8.396E-03
NOVEMBER	3.981E-03	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL 3.656E-02 6.497E-04 1.731E-03 5.119E-02

	<u>Sb-124,125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	5.494E-04	9.261E-02	-
FEBRUARY	-	-	5.153E-04	7.964E-02	-
MARCH	-	-	2.000E-03	1.370E-01	-
APRIL	-	-	8.974E-03	3.991E-01	-
MAY	-	-	2.071E-02	8.296E-01	-
JUNE	-	-	1.079E-02	3.408E-01	-
JULY	-	-	2.288E-02	1.655E+00	-
AUGUST	-	-	6.611E-03	4.512E-01	-
SEPTEMBER	-	-	5.000E-03	5.700E-01	-
OCTOBER	-	-	1.263E-03	2.045E-01	-
NOVEMBER	-	-	-	4.743E-04	-
DECEMBER	-	-	-	-	-

TOTAL 7.930E-02 4.760E+00

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

H Area (Liquid to Seepage Basins), CONT'D.

	<u>Ce-144</u>	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>
JANUARY	-	-	9.933E-05	9.295E-06	1.046E-06
FEBRUARY	-	1.000E-03	2.432E-04	1.266E-05	3.241E-06
MARCH	-	2.000E-03	-	1.066E-04	8.311E-05
APRIL	3.053E-03	1.200E-02	3.054E-04	1.069E-04	6.185E-06
MAY	1.275E-02	1.000E-02	-	6.467E-05	4.458E-06
JUNE	-	-	2.618E-05	4.624E-06	4.624E-06
JULY	-	9.000E-03	2.535E-04	2.154E-04	3.239E-05
AUGUST	-	2.000E-03	2.340E-04	-	-
SEPTEMBER	3.292E-03	5.000E-03	-	8.949E-05	2.787E-04
OCTOBER	5.852E-03	2.000E-03	-	4.011E-04	2.311E-05
NOVEMBER	-	-	-	6.962E-06	1.025E-05
DECEMBER	-	-	-	-	-
TOTAL	2.495E-02	4.300E-02	1.161E-03	1.018E-03	4.471E-04

	<u>U-235,238</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	7.329E-06	2.224E-05	-	3.991E-05	3.989E+06
FEBRUARY	2.045E-06	3.104E-05	-	4.899E-05	4.333E+06
MARCH	1.533E-05	2.526E-04	-	4.577E-04	2.289E+07
APRIL	3.934E-05	5.249E-04	8.670E-06	6.860E-04	2.105E+07
MAY	-	2.189E-04	-	2.880E-04	2.606E+07
JUNE	5.319E-05	5.453E-05	1.470E-07	1.448E-04	1.688E+07
JULY	8.597E-06	5.391E-05	5.030E-05	3.606E-04	1.306E+07
AUGUST	-	-	-	-	1.969E+07
SEPTEMBER	2.442E-06	3.174E-05	-	4.024E-04	1.288E+07
OCTOBER	2.646E-05	6.534E-05	1.158E-05	5.061E-04	2.375E+07
NOVEMBER	1.761E-06	1.458E-06	7.700E-08	2.051E-05	8.419E+05
DECEMBER	-	-	-	-	-
TOTAL	1.565E-04	1.256E-03	7.077E-05	2.955E-03	1.654E+08

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

200-H Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Sr-89,90</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	2.060E+04	-	-	2.300E-05	1.320E-04	4.050E-04
FEBRUARY	1.958E+04	-	-	1.200E-05	3.300E-05	3.300E-05
MARCH	4.758E+04	-	-	1.400E-05	2.110E-04	2.040E-04
APRIL	2.019E+04	-	-	2.200E-05	1.800E-05	3.800E-05
MAY	1.812E+04	-	-	2.200E-05	9.000E-06	3.000E-05
JUNE	2.272E+04	-	-	4.000E-06	-	1.600E-05
JULY	2.172E+04	-	-	8.000E-06	-	1.700E-05
AUGUST	1.838E+04	-	-	-	-	8.000E-06
SEPTEMBER	1.340E+04	-	-	8.000E-06	5.000E-06	1.300E-05
OCTOBER	2.169E+04	-	-	1.900E-05	7.000E-06	1.400E-05
NOVEMBER	1.308E+04	-	-	1.000E-05	-	-
DECEMBER	1.831E+04	-	-	1.000E-05	-	-
TOTAL	2.554E+05			1.520E-04	4.150E-04	7.780E-04

	<u>Ru-103</u>	<u>Ru-106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	8.000E-05	2.559E-03	-	1.200E-05	8.000E-05	-
FEBRUARY	2.700E-05	1.553E-03	-	8.000E-06	2.600E-05	-
MARCH	1.330E-04	1.006E-02	-	1.700E-05	3.620E-04	-
APRIL	1.460E-04	2.989E-03	-	7.000E-06	4.800E-05	-
MAY	2.200E-05	9.480E-04	-	5.000E-06	2.900E-05	-
JUNE	-	1.130E-04	-	-	5.000E-06	-
JULY	-	3.900E-05	-	-	1.000E-06	-
AUGUST	-	1.600E-05	-	-	-	-
SEPTEMBER	-	1.580E-04	-	-	1.300E-05	-
OCTOBER	6.000E-06	1.780E-04	-	4.000E-06	2.100E-05	-
NOVEMBER	-	3.600E-05	-	-	7.000E-06	-
DECEMBER	-	1.800E-05	-	-	-	-
TOTAL	4.140E-04	1.866E-02		5.300E-05	5.920E-04	

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curles Released (Volume in Liters)

200-H Stacks. CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Am-241,243</u>	<u>Cm-242,244</u>	<u>U-235,238</u>
JANUARY	4.750E-04	-	4.000E-06	-	1.100E-05
FEBRUARY	1.440E-04	-	4.000E-06	-	4.000E-06
MARCH	3.640E-04	-	3.000E-06	-	1.200E-05
APRIL	3.370E-04	-	2.300E-05	-	2.000E-06
MAY	2.050E-04	-	4.000E-06	1.000E-06	5.000E-06
JUNE	1.400E-05	-	2.000E-06	1.000E-06	1.900E-05
JULY	2.000E-06	-	2.000E-06	-	9.000E-06
AUGUST	-	-	-	-	4.000E-06
SEPTEMBER	5.700E-05	-	1.000E-06	-	1.000E-05
OCTOBER	9.000E-05	-	3.000E-06	-	1.500E-05
NOVEMBER	-	-	1.000E-06	-	3.000E-06
DECEMBER	-	-	2.000E-06	2.000E-06	1.500E-05
TOTAL	1.688E-03		4.900E-05	4.000E-06	1.090E-04
	<u>Pu-238,239</u>	<u>Pu-238</u>	<u>Pu-239</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	4.400E-05	4.100E-05	3.000E-06	-	2.854E+11
FEBRUARY	6.000E-05	5.900E-05	1.000E-06	-	2.283E+11
MARCH	4.100E-05	3.300E-05	8.000E-06	-	2.283E+11
APRIL	8.000E-06	8.000E-06	-	-	2.283E+11
MAY	1.400E-05	1.200E-05	2.000E-06	-	2.854E+11
JUNE	1.000E-05	5.000E-06	5.000E-06	-	2.283E+11
JULY	3.500E-05	3.500E-05	-	-	2.854E+11
AUGUST	7.000E-06	5.000E-06	2.000E-06	-	2.283E+11
SEPTEMBER	1.100E-05	8.000E-06	3.000E-06	-	2.283E+11
OCTOBER	2.800E-05	1.300E-05	1.200E-05	-	2.854E+11
NOVEMBER	2.900E-05	2.400E-05	5.000E-06	-	2.283E+11
DECEMBER	2.000E-05	1.600E-05	4.000E-06	-	2.283E+11
TOTAL	3.070E-04	2.620E-04	4.500E-05		2.968E+12

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988

Curies Released (Volume in Liters)

230-H Incinerator Stack

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	1.400E+02	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	1.400E+02				

	<u>Ru-103</u>	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	1.000E-06	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL				1.000E-06	

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	-	1.498E+10
FEBRUARY	-	-	-	1.498E+10
MARCH	-	-	-	1.498E+10
APRIL	-	-	-	1.498E+10
MAY	-	-	-	1.498E+10
JUNE	-	-	-	1.498E+10
JULY	-	-	-	1.498E+10
AUGUST	-	-	-	1.498E+10
SEPTEMBER	-	-	-	1.498E+10
OCTOBER	-	-	-	1.498E+10
NOVEMBER	-	-	-	1.498E+10
DECEMBER	-	-	-	1.498E+10
TOTAL				1.798E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curles Released (Volume in Liters)

244-H Ruboff Stacks

	<u>Tritium</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>
JANUARY	5.600E+01	-	-	-	-
FEBRUARY	1.564E+01	-	-	-	-
MARCH	4.451E+01	-	-	-	-
APRIL	-	-	-	-	-
MAY	1.844E+01	-	-	-	-
JUNE	7.635E+00	-	-	-	-
JULY	1.230E+01	-	-	-	-
AUGUST	1.550E+02	-	-	-	-
SEPTEMBER	3.945E+01	-	-	-	-
OCTOBER	1.332E+00	-	-	-	-
NOVEMBER	3.028E+01	-	-	-	-
DECEMBER	2.729E+01	-	-	-	-
TOTAL	4.079E+02				

	<u>Ru-103</u>	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL					

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curles Released (Volume in Liters)

244-H Ruboff Stacks, CONT'D.

	<u>Ce-144</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	-	-	1.656E+10
FEBRUARY	-	-	-	3.324E+10
MARCH	-	-	-	5.935E+08
APRIL	-	-	-	5.935E+08
MAY	-	-	-	3.523E+10
JUNE	-	-	-	2.752E+10
JULY	-	-	-	2.752E+10
AUGUST	-	-	-	2.752E+10
SEPTEMBER	-	-	-	2.800E+10
OCTOBER	-	-	-	2.800E+10
NOVEMBER	-	-	-	2.800E+10
DECEMBER	-	-	-	2.800E+10
TOTAL				2.804E+11

- Less than sensitivity of analysis

SEPARATIONS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curles Released (Volume in Liters)

253-H Waste Compactor Stack

	<u>Co-58</u>	<u>Co-60</u>	<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-103</u>
JANUARY	-	-	-	-	-
FEBRUARY	-	-	-	-	-
MARCH	-	-	-	-	-
APRIL	-	-	-	-	-
MAY	-	-	-	-	-
JUNE	-	-	-	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-

TOTAL

	<u>Ru-106</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141</u>
JANUARY	-	-	-	-
FEBRUARY	-	-	-	-
MARCH	-	-	-	-
APRIL	-	-	-	-
MAY	-	-	-	-
JUNE	-	-	-	-
JULY	-	-	-	-
AUGUST	-	-	-	-
SEPTEMBER	-	-	-	-
OCTOBER	-	-	-	-
NOVEMBER	-	-	-	-
DECEMBER	-	-	-	-

TOTAL

	<u>Ce-144</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Volume</u>
JANUARY	-	-	-	3.653E+09
FEBRUARY	-	-	-	3.653E+09
MARCH	-	-	-	3.653E+09
APRIL	-	-	-	3.653E+09
MAY	-	-	-	3.653E+09
JUNE	-	-	-	3.653E+09
JULY	-	-	-	4.573E+09
AUGUST	-	-	-	4.573E+09
SEPTEMBER	-	-	-	3.653E+09
OCTOBER	-	-	-	3.653E+09
NOVEMBER	-	-	-	3.658E+09
DECEMBER	-	-	-	3.653E+09
TOTAL				4.568E+10

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
Curles Released (Volume in Liters)

K-Area Heat Exchanger Cooling Water (Liquid to Stream)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	9.248E+01	2.385E+10
FEBRUARY	1.539E+02	2.855E+10
MARCH	1.594E+02	3.319E+10
APRIL	2.331E+01	1.483E+10
MAY	1.423E+01	5.722E+09
JUNE	7.659E+00	4.579E+09
JULY	1.696E+01	4.579E+09
AUGUST	3.582E+01	5.724E+09
SEPTEMBER	3.859E+00	4.577E+09
OCTOBER	7.129E+00	4.577E+09
NOVEMBER	6.907E+00	2.861E+09
DECEMBER	1.948E+03	2.288E+09
TOTAL	2.470E+03	1.333E+11

- Less than sensitivity of analysis

**REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988**
Curies Released (Volume in Liters)

K-Area Process Sewer (Liquid to Stream)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	2.510E-01	-	-	-	-
FEBRUARY	4.188E+00	-	-	-	-
MARCH	1.331E+00	-	-	-	-
APRIL	3.190E+01	-	-	-	-
MAY	9.975E+00	-	-	-	-
JUNE	3.965E+00	-	-	-	-
JULY	4.088E+00	-	-	-	-
AUGUST	4.625E+00	-	-	-	-
SEPTEMBER	4.181E+00	-	-	-	-
OCTOBER	2.949E+00	-	-	-	-
NOVEMBER	1.279E+02	-	-	-	-
DECEMBER	6.894E+01	-	-	-	-
TOTAL	2.643E+02				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	1.109E+06
FEBRUARY	-	1.039E+08
MARCH	-	1.109E+08
APRIL	-	4.079E+08
MAY	-	4.219E+06
JUNE	-	4.079E+06
JULY	-	4.219E+06
AUGUST	-	4.219E+08
SEPTEMBER	-	4.079E+08
OCTOBER	-	4.219E+08
NOVEMBER	-	4.219E+08
DECEMBER	-	4.219E+08
TOTAL		2.732E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

K Area (Purges to Containment Basin)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58,60</u>
JANUARY					
FEBRUARY					
MARCH					
APRIL	2.809E+01	-	2.964E-04	-	2.110E-04
MAY					
JUNE					
JULY	8.446E+01	-	2.084E-03	7.206E-04	-
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	1.125E+02		2.380E-03	7.206E-04	2.110E-04

	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95, Nb-95</u>	<u>Ru-103,106</u>
JANUARY				
FEBRUARY				
MARCH				
APRIL	1.289E-03	1.611E-03	-	-
MAY				
JUNE				
JULY	2.689E-04	2.588E-04	-	-
AUGUST				
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER				
TOTAL	1.558E-03	1.870E-03		

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

K Area (Purges to Containment Basin), CONT'D.

	<u>Sb-124,125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141,144</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	-	-	-	5.335E-03	-
MAY					
JUNE					
JULY	-	-	4.475E-04	1.470E-02	-
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL			4.475E-04	2.004E-02	

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY				
FEBUARY				
MARCH				
APRIL	4.741E-05	1.915E-03	7.216E-06	7.759E+04
MAY				
JUNE				
JULY	8.614E-05	1.890E-05	5.693E-05	2.100E+05
AUGUST				
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER				
TOTAL	1.335E-04	1.934E-03	6.415E-05	2.876E+05

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

K Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	2.910E+03	4.250E+03	2.300E+01	2.500E+01	4.000E+01
FEBRUARY	1.553E+03	2.740E+03	2.600E+01	4.100E+01	3.630E+02
MARCH	2.213E+03	1.327E+03	2.900E+01	4.500E+01	4.900E+01
APRIL	2.241E+03	1.835E+03	-	1.100E+01	-
MAY	5.970E+03	-	-	-	-
JUNE	7.890E+03	-	-	-	-
JULY	4.073E+03	-	-	-	-
AUGUST	3.483E+03	-	-	-	-
SEPTEMBER	3.575E+03	-	-	-	-
OCTOBER	4.663E+03	-	-	-	-
NOVEMBER	2.687E+03	-	-	-	-
DECEMBER	2.597E+03	-	-	-	-
TOTAL	4.385E+04	1.015E+04	7.800E+01	1.220E+02	4.520E+02
	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	8.800E+01	-	-	3.750E+02	1.100E+01
FEBRUARY	4.300E+02	-	-	4.190E+02	1.200E+01
MARCH	1.230E+02	-	-	4.640E+02	1.400E+01
APRIL	1.100E+01	1.300E-05	-	2.270E+02	1.300E+01
MAY	-	1.320E-04	3.800E-05	-	4.000E+00
JUNE	-	-	6.000E-06	-	-
JULY	-	-	-	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	6.520E+02	1.450E-04	4.400E-05	1.485E+03	5.400E+01
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	3.860E+02	1.300E-05	2.500E-07	1.214E+11	9.175E+10
FEBRUARY	4.310E+02	6.500E-05	4.200E-07	1.438E+11	1.146E+11
MARCH	4.780E+02	1.600E-05	1.900E-07	1.265E+11	9.175E+10
APRIL	2.400E+02	3.000E-06	6.000E-08	1.466E+11	9.175E+10
MAY	4.000E+00	8.000E-06	1.100E-07	2.831E+11	1.146E+11
JUNE	-	6.000E-06	4.000E-07	1.990E+11	9.175E+10
JULY	-	5.000E-06	4.000E-08	2.274E+11	9.175E+10
AUGUST	-	-	1.000E-07	2.846E+11	1.144E+11
SEPTEMBER	-	4.150E-04	-	2.276E+11	9.175E+10
OCTOBER	-	5.500E-04	-	2.846E+11	1.146E+11
NOVEMBER	-	3.000E-05	1.000E-08	2.276E+11	9.175E+10
DECEMBER	-	-	-	2.276E+11	9.175E+10
TOTAL	1.539E+03	1.111E-03	1.580E-06	2.500E+12	1.192E+12

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
Curies Released (Volume in Liters)

L-Area Heat Exchanger Cooling Water (Liquid to L Lake)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	1.756E+01	1.995E+10
FEBRUARY	1.938E+01	2.593E+10
MARCH	1.429E+01	2.553E+10
APRIL	1.513E+01	2.655E+10
MAY	2.582E+01	3.319E+10
JUNE	1.732E+01	2.068E+10
JULY	4.250E+00	4.579E+09
AUGUST	5.959E+00	5.724E+09
SEPTEMBER	7.299E+00	4.577E+09
OCTOBER	5.859E+00	4.577E+09
NOVEMBER	5.769E+00	2.861E+09
DECEMBER	3.514E+00	2.288E+09
TOTAL	1.422E+02	1.765E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

L-Area Process Sewer (Liquid to L Lake)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	1.090E+00	-	-	-	-
FEBRUARY	1.656E+00	-	-	-	-
MARCH	-	-	-	-	-
APRIL	1.550E-01	-	-	-	-
MAY	1.859E+00	-	-	-	-
JUNE	1.543E+00	-	-	-	-
JULY	3.359E+00	-	-	-	-
AUGUST	4.781E+00	-	-	-	-
SEPTEMBER	3.105E+00	-	-	-	-
OCTOBER	1.163E+00	-	-	-	-
NOVEMBER	4.123E+00	-	-	-	-
DECEMBER	1.867E+00	-	-	-	-
TOTAL	2.471E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	4.959E+06
FEBRUARY	-	4.719E+08
MARCH	-	5.069E+08
APRIL	-	4.729E+08
MAY	-	4.829E+06
JUNE	-	4.539E+06
JULY	-	5.569E+06
AUGUST	-	5.579E+08
SEPTEMBER	-	5.159E+08
OCTOBER	-	5.219E+08
NOVEMBER	-	5.059E+08
DECEMBER	-	5.189E+08
TOTAL		4.092E+09

- Less than sensitivity of analysis

**REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988**

Curies Released (Volume in Liters)

L Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>	<u>Sr-89</u>
JANUARY	1.484E+01	1.010E-07	-	-	-	-
FEBUARY						
MARCH	1.638E+01	9.720E-06	-	7.639E-04	-	-
APRIL	1.739E+01	-	-	2.784E-04	-	-
MAY						
JUNE						
JULY	1.631E+01	-	4.684E-05	2.054E-04	-	-
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER						
DECEMBER						
TOTAL	6.493E+01	9.821E-06	4.684E-05	1.247E-03		
	<u>Sr-90</u>	<u>Zr-95. Nb-95</u>	<u>Ru-103.106</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>
JANUARY	-	-	-	5.767E-04	1.010E-04	1.060E-04
FEBUARY						
MARCH	-	-	-	1.091E-03	5.742E-06	6.442E-05
APRIL	-	-	-	1.024E-04	6.580E-06	8.554E-05
MAY						
JUNE						
JULY	-	-	-	3.857E-04	4.512E-05	7.065E-04
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER						
DECEMBER						
TOTAL				2.156E-03	9.625E-04	1.584E-04
	<u>Ce-141.144</u>	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>	
JANUARY	-	7.615E-05	6.534E-04	3.030E-06	-	
FEBUARY						
MARCH	-	9.210E-06	1.883E-03	3.900E-06	1.139E+05	
APRIL	-	2.448E-06	3.833E-04	1.880E-07	1.299E+05	
MAY						
JUNE						
JULY	-	6.720E-06	6.447E-04	4.800E-07	9.599E+04	
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER						
DECEMBER						
TOTAL		9.453E-05	3.565E-03	7.598E-06	3.399E+05	

- Less than sensitivity of analysis

**REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988**

Curies Released (Volume in Liters)

L Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	3.600E+02	1.070E+02	-	4.000E+00	1.000E+00
FEBRUARY	6.730E+02	4.840E+02	-	3.390E+02	-
MARCH	4.510E+02	2.690E+02	3.000E+00	9.100E+01	2.000E+00
APRIL	5.810E+02	2.260E+02	2.000E+00	7.600E+01	1.000E+00
MAY	7.800E+02	2.690E+02	5.000E+00	1.340E+02	1.000E+00
JUNE	8.590E+02	1.990E+02	2.000E+00	6.700E+01	1.000E+00
JULY	5.370E+02	-	-	-	-
AUGUST	2.850E+02	-	-	-	-
SEPTEMBER	4.290E+02	-	-	-	-
OCTOBER	3.720E+02	-	-	-	-
NOVEMBER	1.210E+02	-	-	-	-
DECEMBER	1.990E+02	-	-	-	-
TOTAL	5.647E+03	1.554E+03	1.200E+01	7.110E+02	6.000E+00
	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	5.000E+00	-	-	-	3.000E+00
FEBRUARY	3.390E+02	-	-	-	7.000E+00
MARCH	9.600E+01	-	-	-	1.700E+01
APRIL	7.900E+01	-	-	-	1.400E+01
MAY	1.400E+02	-	-	-	1.830E+02
JUNE	7.000E+01	-	-	-	1.200E+01
JULY	-	5.000E-06	3.020E-04	-	-
AUGUST	-	-	-	-	-
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	7.290E+02	5.000E-06	3.020E-04	-	2.360E+02
	<u>Total Xe</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	3.000E+00	8.000E-06	1.000E-09	1.257E+11	9.062E+10
FEBRUARY	7.000E+00	4.000E-05	2.200E-07	1.410E+11	1.132E+11
MARCH	1.700E+01	7.000E-06	2.000E-08	1.413E+11	9.062E+10
APRIL	1.400E+01	2.300E-05	7.000E-08	1.263E+11	9.062E+10
MAY	1.830E+02	2.000E-06	3.000E-08	1.591E+11	1.132E+11
JUNE	1.200E+01	3.000E-06	5.000E-08	1.308E+11	9.062E+10
JULY	-	7.000E-06	6.000E-08	1.588E+11	9.062E+10
AUGUST	-	1.830E-04	1.300E-07	9.430E+10	1.132E+11
SEPTEMBER	-	3.000E-06	5.000E-08	1.789E+11	9.062E+10
OCTOBER	-	1.000E-05	1.700E-07	2.860E+11	1.132E+11
NOVEMBER	-	7.100E-05	2.800E-07	2.276E+11	9.062E+10
DECEMBER	-	9.000E-06	4.600E-07	2.276E+11	9.062E+10
TOTAL	2.360E+02	3.660E-04	1.541E-06	1.997E+12	1.178E+12

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
Curies Released (Volume in Liters)

M Area (Liquid to Stream)

	<u>U-235.238</u>	<u>Volume</u>
JANUARY	-	1.263E+08
FEBRUARY	7.630E-04	1.609E+08
MARCH	-	1.185E+08
APRIL	5.310E-04	1.385E+08
MAY	7.020E-04	1.385E+08
JUNE	1.154E-03	1.333E+08
JULY	-	7.721E+07
AUGUST	1.581E-03	1.081E+08
SEPTEMBER	-	1.036E+08
OCTOBER	1.000E-06	1.504E+08
NOVEMBER	-	1.401E+08
DECEMBER	7.560E-04	1.218E+08
TOTAL	5.488E-03	1.518E+09

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curies Released (Volume in Liters)

313 M

	<u>U-238</u>	<u>Volume</u>
JANUARY	1.027E-06	7.438E+10
FEBRUARY	5.840E-07	7.438E+10
MARCH	-	7.438E+10
APRIL	2.920E-07	7.438E+10
MAY	4.360E-07	7.438E+10
JUNE	2.260E-07	7.438E+10
JULY	1.800E-08	7.438E+10
AUGUST	1.100E-08	7.438E+10
SEPTEMBER	2.900E-08	7.438E+10
OCTOBER	5.600E-08	7.438E+10
NOVEMBER	7.000E-09	7.438E+10
DECEMBER	1.050E-07	7.438E+10
TOTAL	2.791E-06	8.925E+11

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curies Released (Volume in Liters)

321 M

	<u>Un I.D.Alpha</u>	<u>Volume</u>
JANUARY	4.220E-07	3.744E+10
FEBRUARY	3.070E-07	3.744E+10
MARCH	1.000E-09	3.744E+10
APRIL	1.700E-07	3.744E+10
MAY	2.910E-07	3.744E+10
JUNE	1.270E-07	3.744E+10
JULY	1.090E-07	3.744E+10
AUGUST	2.170E-07	3.744E+10
SEPTEMBER	1.100E-07	3.744E+10
OCTOBER	4.000E-08	3.744E+10
NOVEMBER	1.550E-07	3.744E+10
DECEMBER	8.600E-08	3.744E+10
TOTAL	2.035E-06	4.492E+11

- Less than sensitivity of analysis

RAW MATERIALS AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
Curies Released (Volume in Liters)

322 M

	<u>Tritium</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	8.000E-09	6.199E+07
FEBRUARY	-	-	6.199E+07
MARCH	-	-	6.199E+07
APRIL	-	3.100E-08	6.199E+07
MAY	-	1.200E-08	6.199E+07
JUNE	-	-	6.199E+07
JULY	-	2.000E-09	6.199E+07
AUGUST	-	1.700E-08	6.199E+07
SEPTEMBER	-	8.800E-08	6.199E+07
OCTOBER	-	8.000E-08	6.199E+07
NOVEMBER	-	1.400E-08	6.199E+07
DECEMBER	-	3.700E-08	6.199E+07
TOTAL		2.890E-07	7.438E+08

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
Curies Released (Volume in Liters)

P-Area Heat Exchanger Cooling Water (Liquid to Par Pond)

	<u>Tritium</u>	<u>Volume</u>
JANUARY	3.850E+01	2.655E+10
FEBRUARY	2.919E+01	2.657E+10
MARCH	4.872E+01	3.319E+10
APRIL	9.416E+01	2.655E+10
MAY	9.589E+00	5.722E+09
JUNE	1.727E+01	4.579E+09
JULY	2.173E+01	4.579E+09
AUGUST	1.487E+01	1.546E+10
SEPTEMBER	3.192E+01	4.577E+09
OCTOBER	1.357E+01	4.577E+09
NOVEMBER	7.015E+00	2.861E+09
DECEMBER	5.820E+00	2.288E+09
TOTAL	3.324E+02	1.575E+11

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

P-Area Process Sewer (Liquid to Par Pond)

	<u>Tritium</u>	<u>Co-58.60</u>	<u>Sr-90</u>	<u>Cs-137</u>	<u>Un I.D. Beta+Gamma</u>
JANUARY	1.210E+01	-	-	-	-
FEBRUARY	4.361E+00	-	-	-	-
MARCH	3.593E+00	-	-	-	-
APRIL	6.179E+00	-	-	-	-
MAY	1.916E+00	-	-	-	-
JUNE	-	-	-	-	-
JULY	1.035E+00	-	-	-	-
AUGUST	8.820E-01	-	-	-	-
SEPTEMBER	2.299E+00	-	-	-	-
OCTOBER	1.567E+01	-	-	-	-
NOVEMBER	2.126E+00	-	-	-	-
DECEMBER	6.062E+00	-	-	-	-
TOTAL	5.625E+01				

	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY	-	4.499E+06
FEBRUARY	-	4.079E+08
MARCH	-	4.049E+08
APRIL	-	4.139E+08
MAY	-	4.579E+06
JUNE	-	1.719E+06
JULY	-	8.479E+07
AUGUST	-	1.689E+08
SEPTEMBER	-	4.389E+08
OCTOBER	-	5.659E+08
NOVEMBER	-	1.699E+08
DECEMBER	-	2.079E+08
TOTAL		2.874E+09

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

P Area (Purges to Seepage Basins)

	<u>Tritium</u>	<u>P-32</u>	<u>S-35</u>	<u>Cr-51</u>	<u>Co-58.60</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	2.256E+00	-	3.431E-06	-	4.875E-07
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER	1.751E+01	-	-	-	1.260E-05
NOVEMBER					
DECEMBER	4.025E-02	-	3.403E-06	-	-
TOTAL	1.980E+01		6.834E-06		1.308E-05

	<u>Sr-89</u>	<u>Sr-90</u>	<u>Zr-95. Nb-95</u>	<u>Ru-103.106</u>
JANUARY				
FEBUARY				
MARCH				
APRIL	-	5.625E-07	7.500E-07	-
MAY				
JUNE				
JULY				
AUGUST				
SEPTEMBER				
OCTOBER	-	-	-	-
NOVEMBER				
DECEMBER	9.960E-06	8.549E-06	-	-
TOTAL	9.960E-06	9.111E-06	7.500E-07	

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
 Curies Released (Volume in Liters)

P Area (Purges to Seepage Basins), CONT'D.

	<u>Sb-124,125</u>	<u>I-131</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Ce-141,144</u>
JANUARY					
FEBUARY					
MARCH					
APRIL	-	-	1.068E-06	2.481E-05	2.706E-06
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER	-	-	1.330E-05	3.969E-04	1.890E-05
NOVEMBER					
DECEMBER	-	-	-	3.876E-05	-
TOTAL			1.436E-05	4.604E-04	2.160E-05

	<u>Pm-147</u>	<u>Un I.D. Beta+Gamma</u>	<u>Un I.D. Alpha</u>	<u>Volume</u>
JANUARY				
FEBUARY				
MARCH				
APRIL	2.475E-06	1.033E-05	1.250E-07	6.249E+03
MAY				
JUNE				
JULY				
AUGUST				
SEPTEMBER				
OCTOBER	-	1.610E-05	2.940E-06	6.999E+04
NOVEMBER				
DECEMBER	-	-	-	8.299E+04
TOTAL	2.475E-06	2.643E-05	3.065E-06	1.592E+05

- Less than sensitivity of analysis

REACTOR AREA
RADIOACTIVE ATMOSPHERIC RELEASES FOR 1988
 Curies Released (Volume in Liters)

P Area

	<u>Tritium</u>	<u>Ar-41</u>	<u>Kr-85M</u>	<u>Kr-87</u>	<u>Kr-88</u>
JANUARY	3.612E+03	4.099E+03	2.030E+02	1.240E+02	2.730E+02
FEBRUARY	2.499E+03	3.976E+03	1.880E+02	1.170E+02	2.540E+02
MARCH	1.524E+03	4.250E+03	2.020E+02	1.250E+02	2.710E+02
APRIL	2.213E+03	4.113E+03	1.950E+02	1.210E+02	2.620E+02
MAY	2.251E+03	-	4.000E+01	-	-
JUNE	1.607E+03	-	3.800E+01	-	-
JULY	2.360E+03	-	-	-	-
AUGUST	6.663E+03	1.371E+03	6.500E+01	4.000E+01	8.800E+01
SEPTEMBER	1.037E+04	-	-	-	-
OCTOBER	1.305E+04	-	-	-	-
NOVEMBER	6.401E+03	-	-	-	-
DECEMBER	4.517E+03	-	-	-	-
TOTAL	5.708E+04	1.780E+04	9.310E+02	5.270E+02	1.148E+03

	<u>Total Kr</u>	<u>I-131 Stack</u>	<u>Diss. I-131</u>	<u>Xe-133</u>	<u>Xe-135</u>
JANUARY	6.000E+02	-	-	4.750E+02	6.320E+02
FEBRUARY	5.590E+02	-	-	4.420E+02	5.960E+02
MARCH	5.980E+02	-	-	4.730E+02	6.370E+02
APRIL	5.780E+02	-	-	4.580E+02	6.160E+02
MAY	4.000E+01	-	-	-	-
JUNE	3.800E+01	-	-	-	-
JULY	-	-	-	-	-
AUGUST	1.930E+02	-	-	1.520E+02	2.050E+02
SEPTEMBER	-	-	-	-	-
OCTOBER	-	-	-	-	-
NOVEMBER	-	-	-	-	-
DECEMBER	-	-	-	-	-
TOTAL	2.606E+03	-	-	2.000E+03	2.686E+03

	<u>Total Xe</u>	<u>Un.I.D.Beta+Gamma</u>	<u>Un.I.D.Alpha</u>	<u>Stack Volume</u>	<u>Diss. Volume</u>
JANUARY	1.107E+03	8.000E-06	1.700E-07	1.520E+11	1.008E+11
FEBRUARY	1.038E+03	2.200E-05	2.300E-07	2.398E+11	1.260E+11
MARCH	1.110E+03	1.800E-05	2.300E-07	1.342E+11	1.008E+11
APRIL	1.074E+03	8.000E-06	3.000E-07	2.101E+11	1.008E+11
MAY	-	8.000E-06	2.200E-07	3.466E+11	1.260E+11
JUNE	-	1.200E-05	1.400E-07	2.276E+11	1.008E+11
JULY	-	3.700E-05	-	2.398E+11	1.008E+11
AUGUST	3.570E+02	4.000E-06	4.000E-08	2.271E+11	1.257E+11
SEPTEMBER	-	6.000E-06	8.000E-08	1.911E+11	9.968E+10
OCTOBER	-	1.150E-04	8.000E-08	3.446E+11	1.246E+11
NOVEMBER	-	2.100E-05	4.500E-07	2.848E+11	9.203E+10
DECEMBER	-	-	-	2.854E+11	1.008E+11
TOTAL	4.686E+03	2.590E-04	1.940E-06	2.883E+12	1.299E+12

- Less than sensitivity of analysis

TNX AREA
RADIOACTIVE LIQUID RELEASES FOR 1988
Curies Released (Volume in Liters)

CMX-TNX (Liquid to Seepage Basins)

	<u>Un I.D. Beta+Gamma</u>	<u>U-235,238</u>	<u>Volume</u>
JANUARY	-	4.000E-06	1.135E+05
FEBRUARY	-	2.000E-06	1.139E+05
MARCH	-	-	9.999E+04
APRIL	-	-	1.139E+05
MAY	-	-	9.999E+04
JUNE	-	1.300E-05	9.999E+04
JULY	-	-	9.999E+04
AUGUST	-	-	9.999E+04
SEPTEMBER	-	-	9.999E+04
OCTOBER	-	-	9.999E+04
NOVEMBER	-	-	9.999E+04
TOTAL		1.900E-05	1.141E+06

- Less than sensitivity of analysis

- END -

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