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U.S. Department of Energy
Idaho Operations Office

Radioactive Waste Information for 1998 and Record-To-Date

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Radioactive Waste Information For 1998 And Record-To-Date

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Waste Generator Services

Published July 1999

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ABSTRACT

This document presents detailed data, bar graphs, and pie charts on volume, radioactivity, isotopic identity, origin, and status of radioactive waste for calendar year 1998. It also summarizes the radioactive waste data records compiled from 1952 to present for the Idaho National Engineering and Environmental Laboratory (INEEL). The data presented are from the INEEL Integrated Waste Information System.

EXECUTIVE SUMMARY

This document, *Radioactive Waste Information for 1998 and Record-To-Date*, contains computerized radioactive waste data records from the Idaho National Engineering and Environmental Laboratory (INEEL). Data are compiled from information supplied by the U.S. Department of Energy (DOE) contractors. This report provides data on airborne and liquid radioactive effluents and solid radioactive waste that is stored, disposed, or treated at the INEEL for volume reduction. This report provides summarized data for the years 1952 through 1997 and detailed data for the calendar year 1998.

The Environmental Database Integration project is on going with migration to the INEEL Containerized Waste Tracking System (IWTS) version 3 accomplished in May 1999.

As part of the original June 1997 conversion to IWTS extensive verification of older containers was performed. This verification has continued and additional duplicate containers have been identified in the Waste Experimental Reduction Facility (WERF) inventory. When identified, the containers have been archived from the old Radioactive Waste Management Information System (RWMIS), thus eliminating double counting. Task History dates on older containers continue to affect the reporting year. As the backlog is worked off this will be eliminated. A disposal location conversion deficiency has also been found. This affected TRA for 1997 and WERF for 1995. This verification is a continuing process.

Verification of waste profile information is an ongoing activity. As discrepancies are identified and recharacterization of the waste is completed, history totals on the Record-to-Date Summary report TT22EB01 will be updated.

Hanford waste reported on SS22MB01 is waste pending treatment at WERF. After treatment the waste will be shipped off-site for disposal.

Idaho State University (ISU) waste reported on SS22PB01 is INEEL generated waste returned after Treatability Studies have been performed.

Data used in producing this annual report is from the Integrated Waste Tracking System data repository using the data download of May 10, 1998.

Airborne and liquid waste was released to the environment through engineered release points identified on Table 1 in the *Engineered Release Points* section. Monitoring and effluent sampling systems are an integral part of each engineered release point. Releases to the environment may also occur at locations other than normal release points.

In 1998, 5,921 curies of airborne radioactivity were released, of which 99.9 percent were noble gases. In 1997 airborne activity release was 5,327 curies and in 1996 it was 2,904 curies.

A total of 1.972E+09 liters containing 78 curies of liquid radioactive waste was released to the INEEL environment during 1998. Ninety-six percent of the radioactivity was tritium. The volume of radioactive liquid discharged as waste in 1998 was 16 percent less than that discharged in 1997 and 12 percent less than that discharged in 1996.

During 1998, a total of 4,224 m³ of containerized radioactive waste containing 5,738 curies was shipped to the Radioactive Waste Management Complex (RWMC) for disposal. During 1997, 1,564 m³ containing 15,972 curies was shipped for disposal. During 1996, 677 m³ containing 14,445 curies was shipped for disposal.

The majority of the nuclides disposed in solid waste at RWMC in 1998 consisted of Ni-63, Fe-55, Co-58, Co-60. These nuclides accounted for 83% of the total curie activity.

Radioactive effluent discharges at the INEEL in 1998 met all applicable DOE requirements (DOE 5400.5, "Radiation Protection of the Public and Environment," and 5820.2, "Radioactive Waste Management") and State of Idaho regulations and standards.

The impact of this waste on the environment, both onsite and offsite, is constantly monitored by the INEEL Site Environmental Surveillance Program. The results of this program for 1998 are published in the annual report, *The Idaho National Engineering Laboratory Site Environmental Report for Calendar Year 1998*, DOE-ID-12082(98).

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Waste Experimental Reduction Facility 1998 Graphics	
Waste Reduction Operation Complex	
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ACRONYMS AND ABBREVIATIONS

A1W	Large ship reactor at Naval Reactors Facility	HFEF	Hot Fuels Examination Facility
ANL-E	Argonne National Laboratory-East	ILTSF	Intermediate-Level Transuranic Storage Facility (also referred to as ILT)
ANL-W	Argonne National Laboratory-West	INEEL	Idaho National Engineering and Environmental Laboratory
ARA	Auxiliary Reactor Area	INTEC	Idaho Nuclear Technology and Engineering Center
ATR	Advanced Test Reactor	ISU	Idaho State University
BCL	Battelle Columbus Laboratories	IWTS	Integrated Waste Tracking System
BEN	Bendix—Grand Junction, Colorado	KAPCT	Knolls Atomic Power Laboratory Connecticut
BET	Bettis Atomic Power Laboratory	KAPNY	Knolls Atomic Power Laboratory New York
BNL	Brookhaven National Laboratory	LMITCO	Lockheed Martin Idaho Technologies Company
B&W	Babcock & Wilcox	L&O	Lab and Office Building
CEG	Combustion Engineering General Atomics	LOF	Loss-of-Fluid Test
CF	Central Facilities	LOFT	Loss-of-Fluid Test
CG	Concentration Guide (also referred to as DCG)	LOS	Los Alamos National Laboratory
CPP	Chemical Processing Plant (previous name for INTEC)	MDL	Monsanto Dayton Laboratory
CTF	Containment Test Facility (LOFT became CTF on 10/01/86)	MRC	Monsanto Research Corporation Mound Laboratory
CY	calendar year	MTR	Materials Test Reactor
D&D	decontamination and decommissioning	NNS	Norfolk Naval Ship Yard
DCG	Derived Concentration Guide	NRF	Naval Reactors Facility
DOE	U.S. Department of Energy	NWCF	New Waste Calcining Facility
DOE-ID	U.S. Department of Energy, Idaho Operations Office	PBF	Power Burst Facility
EBR	ANLW Storage Area	PER	Special Power Excursion Reactor Test (also referred to as SPERT)
EBR-II	Experimental Breeder Reactor II	PHNSY	Pearl Harbor Naval Shipyard
ECF	Expended Core Facility	PREPP	Process Reduction Experimental Pilot Plant
ETR	Engineering Test Reactor	PSNSY	Pudget Sound Naval Shipyard
FAST	Fluorinel and Storage Facility	R&D	research and development
FCF	Fuel Cycle Facility		
FMF	Fuel Manufacturing Facility		
JCH	J.C. Haynes/Wright Patterson Air Force Base		

RESL	Radiological and Environmental Sciences Laboratory	TAN	Test Area North
RFO	Rocky Flats Office (Kaiser/Hill Rocky Flats, Colorado)	TRA	Test Reactor Area
RLWTF	Radioactive Liquid Waste Treatment	TRIPS	Transuranic Reporting Inventory and Processing System
RWDS	Radioactive Waste Disposal System	TSA	Transuranic Storage Area
RWMC	Radioactive Waste Management Complex (also referred to as WMF)	TSF	Test Support Facility
RWMIS	Radioactive Waste Management Information System	WAG	Waste Area Groups
S1W	submarine prototype at NRF	WAG1	Test Area North
S5G	submarine prototype at NRF	WAG3	Idaho Nuclear Technology and Engineering Center
SCND	Special Case Non-defense Waste	WAG7	Waste Management Facility
SEG	Scientific Ecology Group	WERF	Waste Experimental Reduction Facility (also referred to as WER)
SL-1	Stationary Low Power Reactor No. 1	WIPP	Waste Isolation Pilot Project
SMC	Special Manufacturing Capability	WMF	Waste Management Facility (also referred to as RWMC)
SPF	Sodium Process Facility	WROC	Waste Reduction Operations Complex
SWEPP	Stored Waste Examination Pilot Plant	ZPPR	Zero Power Plutonium Reactor

CONVERSION FACTORS

<u>To Convert</u>	<u>Into</u>	<u>Multiply By</u>
Cubic yards	Cubic meters	0.7646
Cubic meters	Cubic feet	35.3140
Liters	Gallons (U.S. liquid)	0.2642
Kilograms	Pounds	2.2046

DEFINITIONS

Curie A unit of radioactivity, defined as that quantity of any radioactive nuclide that has $3.7\text{E}+10$ disintegrations per second (abbreviated Ci).

Exponential notation Numbers in this document are expressed as either whole numbers or in exponential notation form. For example: $1,000,000 = 1 \times 10^6 = 1\text{E}+06$.

RADIOACTIVE WASTE MANAGEMENT INFORMATION FOR 1998 AND RECORD-TO-DATE

INTRODUCTION

This document summarizes radioactive waste data records for the Idaho National Engineering and Environmental Laboratory (INEEL) compiled since 1952, and provides detailed data for calendar year (CY) 1998. A computerized radioactive waste tracking system has been used at the INEEL since January 1971.

Several improvements to the data base system and data reporting have taken place since data collection was computerized. These improvements include:

- In 1982, the data base language was converted from COBOL to NOMAD, a fourth generation data base language. NOMAD had many statistical analysis features that were applied to the data, and allowed for modifying data reporting requirements with minimal impact on the data base.
- In January 1986, solid waste data reporting requirements changed from a per-shipment basis to a per-container basis. A shipment could consist of 1 to 70 containers. By changing to a per-container basis, solid waste location on the INEEL is tracked more accurately. It is now possible to identify each container and to determine its waste classification.
- In February 1988, waste generators were given the ability to provide the analytical uncertainty, at one sigma, for the reported nuclides of air and liquid effluent releases.
- In May 1996, the process to convert the data from NOMAD to the Oracle language identified one improper location coding. The correction of this coding caused 10 cubic meters and 82 curies, not previously reported, to now be reported for WMC 1987 TSA total.
- In June 1996 the conversion from NOMAD to the ORACLE platform was completed. As a result of this platform change the precision of waste calculation results has been improved. Using the NOMAD code with a value retrieved for use in calculations the value was truncated. For example if the original number was 2,440,132,560 it would be truncated for calculations to 2.440E+06 resulting in a loss of 132,560. The greater the original number, the greater the precision loss. With the ORACLE platform for calculations the numbers are rounded rather than truncated. This change will show up as differences between the older NOMAD reports and the current ORACLE calculation method.
- In June 1997 the Environmental Database Integration project was initiated to bring together waste tracking systems across the INEEL into one reporting system. Historical information from the Radioactive Waste Management Information System (RWMIS) was loaded into a data repository. All previous reporting capabilities are available in the Integrated Waste Tracking System (IWTS) along with additional detailed information for tracking containerized waste that was previous unavailable.

U.S. Department of Energy (DOE) contractors routinely report information on airborne and liquid radioactive effluents and solid radioactive waste that is stored, disposed, and sent to the INEEL for volume reduction. Types of information include

volume, radioactivity, isotopic identity, and origin. This system serves as the official repository for this data and provides reports for all types of radioactive effluents and waste disposed, sent for volume reduction, or stored at the INEEL.

Graphics were added to the report in 1987 to improve the data presentation. The area-specific solid low-level waste graphs in this report depict waste in five categories:

1. Direct Disposal—waste that is sent directly to the Radioactive Waste Management Complex for disposal with no volume reduction efforts applied.
2. Compaction—Compatible waste that is sent to the Waste Experimental Reduction Facility (WERF) to be compacted.
3. Metal Sizing—Metallic waste that is sent to WERF for volume reduction.
4. Incineration—Combustible waste sent to WERF for incineration.
5. Waste shipped to off-site facilities for volume reduction or disposal.

In 1990, additional reports and graphics were added to better represent previously summarized data. These reports and graphics included a detailed list of generators who ship waste to WERF and details on stored waste by generator.

The waste tracking system is continually undergoing review and enhancement. Comments on the system are encouraged. This report is updated annually to incorporate waste management data for the current year and to reflect changes from previous annual reports. These changes are made to more accurately reflect the current status of waste operations at the INEEL.

Annual and special waste reports are useful to various levels of management in appraising their radioactive waste programs. Annual reports provide a summary by type and producer of waste. The volume, weight, and curie content in all reports are expressed in exponential notation.

A comparison of the annual mean average released nuclides concentrations and the Derived Concentrations Guide (DCG) limits are included in the detailed tracking system. The concentration of liquid releases is compared directly to the reference DCG limits for drinking water. It must be noted that the DCG liquid release limits are for protecting the public from ingesting radiation-contaminated water. INEEL liquid releases flow to areas inaccessible to the general public. The calculated concentration of airborne releases as dispersed to the INEEL boundary is compared to the reference airborne DCG limits. The reference DCG values are given in DOE Order 5400.5, "Radiation Protection of the Public and the Environment," February 1990. The right-hand column of many reports indicate total and average values. Total values include the total content in curies for each radionuclide released during the year. Average values are the annual mean concentrations of radionuclides.

The tracking and reporting system provides readily available information that permits ongoing evaluation of INEEL waste management activities, including compliance with DOE regulations and those of other Federal and State agencies. The database continues to be a valuable asset to the overall management effort at the INEEL and continues to alert the DOE Idaho Operations Office (DOE-ID) of trends and potential problem areas.

Reports Included in Document

Six report categories are included in this document. Brief descriptions of each are below.

INEEL Record-to-Date Summary—This report summarizes the volume and curies of all effluents and solid waste on the INEEL by CY for the period 1989 to 1998 and a cumulative total for 1952 to 1988.

INEEL Record-to-Date Discharges and Solid Waste—These reports summarize the volume and curies of all discharges and solid waste on the INEEL by discharge/waste type for each area generating waste by CY for the period 1989 to 1998 and a cumulative total for 1952 to 1988.

INEEL 1998 Year-to-Date Summary—This report summarizes, by facility, the amounts of radioactivity generated at INEEL facilities or at offsite facilities and shipped to the INEEL. Liquid and airborne waste that is released is identified,

and quantities of solid wastes stored, disposed, or received for reduction are given. The volume of the media containing the radioactivity is also included.

Nuclide Summary in Curies for Airborne, Liquid, and Solid Waste—These reports summarize the annual curie values, by nuclide, for each area reporting effluents or solid waste on the INEEL.

Area 1998 Graphics—These graphics include volume and curie monthly data for airborne, liquid, and solid waste generated by INEEL areas and for non-INEEL areas shipping solid waste to the INEEL.

Engineered Release Points—These tables identify the area and type of discharge of the airborne and liquid waste released to the environment.

INEEL Record-to-Date Summary

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INEEL-3

Idaho Operations Office
U.S. Department of Energy
Integrated Waste Tracking System

INEEL RECORD-TO-DATE SUMMARY

TYPE / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
AIRBORNE												
VOLUME	188202	13514	13450	12983	12715	13150	12856	14868	14174	14187	13242	323421
CURIES	13572428	22370	24459	63879	24179	2719	2228	1380	2904	5327	5921	13,727,794
LIQUID												
VOLUME	82409	1922	2642	2490	2799	2659	1995	1779	2239	2336	1972	105242
CURIES	75587	137	189	170	187	130	50	84	73	100	78	76,786
CONTAINERIZED DISPOSED ONSITE												
VOLUME	203094	1364	1762	1272	844	852	1906	1159	677	1584	4224	218718
CURIES	10962904	590070	207544	187565	143953	429594	49526	25907	14445	15972	5738	12,633,217
CONTAINERIZED DISPOSED OFFSITE												
VOLUME									2690			2690
CURIES									<1			0
CONTAINERIZED DISPOSED AT WIPP												
VOLUME												
CURIES												
CONTAINERIZED STORED												
VOLUME	55	25	29	41	171	120	734	169	87	778	1087	3295
CURIES	533062	49613	1569	<1	4	799	56	5162	1081	153	43	591,522
CONTAINERIZED STORED AT TSA / ILT												
VOLUME	63969	873	16	<1	<1	6	3	4	25	8	21	64926
CURIES	493554	6623	203	<1	<1	60	4	751	4571	<1	958	506,724
CONTAINERIZED RE-EXAMINED BY TRIPS												
VOLUME										84	437	521
CURIES										2147	13385	15,532
CONTAINERIZED TO SEG FOR REDUCTION*												
VOLUME							1713	899	1279	58		3950
CURIES							28	4	4	<1		33
CONTAINERIZED TO WERF FOR REDUCTION												
VOLUME	5487	2587	2847	1697	683	420	659	1128	1465	4404	5177	28554
CURIES	11	6	12	15	12	2	1	4	12	23	22	121
CONTAINERIZED WERF INVENTORY												
VOLUME										158	2248	2406
CURIES										3	7	10

- 1 LIQUID VOLUME IN MILLIONS OF LITERS . ONE CUBIC METER EQUALS 35.31 CUBIC FEET
 2 AIRBORNE VOLUME IN MILLIONS OF CUBIC METERS ONE MILLION LITERS EQUALS 264,180 GALLONS
 3 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
 4 * DOES NOT INCLUDE WASTE SHIPPED TO SEG FROM WERF

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INEEL RECORD-TO-DATE SUMMARY CY 1998

INEEL 1989 - 1998 AIRBORNE EMISSIONS VOLUME & CURIES

INEEL 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

INEEL 1989 - 1998 CONTAINERIZED DISPOSED ONSITE WASTE

INEEL 1989 - 1998 CONTAINERIZED DISPOSED OFFSITE WASTE

INEEL RECORD-TO-DATE SUMMARY CY 1998

1989 - 1998 CONTAINERIZED WASTE DISPOSED AT WIPP

1989 - 1998 CONTAINERIZED STORED WASTE

1989 - 1998 CONTAINERIZED WASTE STORED AT TSA / ILT

1989 - 1998 CONTAINERIZED RE-EXAMINED BY TRIPS

Graph: G22EB02

INEEL RECORD-TO-DATE SUMMARY CY 1998

1989 - 1998 INCINERABLE WASTE SENT TO PRIVATE INDUSTRY

1989 - 1998 CONTAINERIZED WASTE TO WERF FOR VOLUME REDUCTION

WERF began reducing waste in 1984

1989 - 1998 WERF INVENTORY

INEEL Record-to-Date Discharges and Solid Waste

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Idaho Operations Office
U.S. Department of Energy
Integrated Waste Tracking System

INEEL RECORD-TO-DATE SUMMARY
AIRBORNE WASTE DISCHARGES

AREA / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ANLW												
VOLUME	42086	2540	2535	2542	2542	2522	2520	2405	2414	2408	2399	66913
CURIES	48887	686	718	551	739	1160	1154	10	1049	3606	4719	63278
ARA												
VOLUME	560											560
CURIES	<1											0
CF												
VOLUME	1213	58	58	58	58	34						1481
CURIES	<1	<1	<1	<1	<1	<1						0
CTF												
VOLUME	218											218
CURIES	<1											0
INTEC												
VOLUME	55799	3794	3827	3916	3895	4244	4156	4108	3264	2585	2426	92012
CURIES	8021727	20002	20002	60043	20000	62	<1	<1	<1	132	<1	8141968
LOFT												
VOLUME	822											822
CURIES	8810											8810
NRF												
VOLUME	35808	2377	2151	1795	1654	1646	1329	1983	3300	3769	3864	59674
CURIES	38	<1	<1	<1	<1	1	2	1	1	<1	1	45
PBF												
VOLUME	1141	60	62	63	58	52	59	54	60	60	48	1717
CURIES	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6
SMC												
VOLUME	6440	2812	3031	3122	3047	3141	3166	4710	3306	3560	2826	39160
CURIES	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
TAN												
VOLUME	16793	632	492	191	182	191	197	131	177	137	111	19234
CURIES	53725	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	53725
TRA												
VOLUME	27062	1069	1130	1140	1130	1155	1190	1277	1351	1366	1396	39285
CURIES	5439236	1682	3741	3284	3439	1495	1072	1368	1854	1588	1201	5459980

2 Details may not add up because of rounding.
1 Volume in millions of cubic meters

Idaho Operations Office
U.S. Department of Energy
Integrated Waste Tracking System

**INEEL RECORD-TO-DATE SUMMARY
AIRBORNE WASTE DISCHARGES**

AREA / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
WERF												
VOLUME	249	156	164	137	135	155	239	301	302	283	173	2294
CURIES	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
WMF												
VOLUME	13	15			14	10						52
CURIES	<1	<1			<1	<1						0
TOTAL VOLUME	188202	13514	13450	12963	12715	13150	12858	14968	14174	14187	13242	323421
CURIES	13572428	22370	24459	63879	24179	2719	2228	1380	2904	5327	5921	13,727,794

2 Details may not add up because of rounding.
1 Volume in millions of cubic meters

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INEEL RADIOACTIVE AIRBORNE WASTE DISCHARGES RECORD-TO-DATE

ANLW 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

CF 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

INTEC 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

Graph: G22DA01

INEEL RADIOACTIVE AIRBORNE WASTE DISCHARGES RECORD-TO-DATE

NRF 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

PBF 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

SMC 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

INEEL RADIOACTIVE AIRBORNE WASTE DISCHARGES RECORD-TO-DATE

TAN 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

TRA 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

WERF 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

WMF 1989 - 1998 AIRBORNE EMISSION VOLUME & CURIES

Graph: G22DA03

Idaho Operations Office
U.S. Department of Energy
Integrated Waste Tracking System

INEEL RECORD-TO-DATE SUMMARY
LIQUID WASTE DISCHARGES

AREA / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ANLW												
VOLUME	74	1	2	2	1	5	5					91
CURIES	22	<1	<1	<1	<1	<1	<1					23
ARA												
VOLUME	65											65
CURIES	<1											0
CF												
VOLUME	5000	117	154	192	160	44						5668
CURIES	54	2	2	3	3	<1						65
CTF												
VOLUME	93											93
CURIES	<1											0
INTEC												
VOLUME	51256	1664	2357	2107	2433	2515	1964	1751	2219	2316	1957	72539
CURIES	22250	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	22,254
LOFT												
VOLUME	2813											2813
CURIES	<1											0
NRF												
VOLUME	1569				0							1569
CURIES	349				<1							349
PBF												
VOLUME	85											85
CURIES	156											156
TAN												
VOLUME	2358	67	58	90	116	24						2712
CURIES	59	<1	<1	<1	<1	2						61
TRA												
VOLUME	19097	73	71	99	88	71	25	28	20	20	15	19606
CURIES	52697	134	185	165	184	128	50	84	73	100	78	53,879
WMF												
VOLUME	0											<1
CURIES	<1											0
TOTAL VOLUME	82409	1922	2642	2490	2799	2659	1995	1779	2239	2336	1972	105242
CURIES	75587	137	189	170	187	130	50	84	73	100	78	76,786

2 Details may not add up to totals because of rounding.
1 Volume in million liters

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Run Date: 06/03/1999

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INEEL RADIOACTIVE LIQUID WASTE DISCHARGE RECORD-TO-DATE

ANLW 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

CF 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

INTEC 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

Graph: G22CB01

INEEL RADIOACTIVE LIQUID WASTE DISCHARGE RECORD-TO-DATE

NRF 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

TAN 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

TRA 1989 - 1998 LIQUID EFFLUENT VOLUME & CURIES

Graph: G22CB02

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**INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY
DISPOSED WASTE**

AREA / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
OTHER*												
VOLUME	1385											1,385
CURIES	2434											2,434
OFFSITE												
VOLUME	6501											6,501
CURIES	37734											37,734
SL-1												
VOLUME	2319											2,319
CURIES	599											599
ANLE												
VOLUME	5398											5,398
CURIES	1481											1,481
ANLW												
VOLUME	8103	172	85	30	56	77	211	48	5	228	215	9,209
CURIES	1782556	463322	130512	82280	92899	87062	12303	2	16	10	39	2,630,961
ARA												
VOLUME	435						101					536
CURIES	4025						<1					4,025
BEN												
VOLUME	<1											1
CURIES	<1											0
BNL												
VOLUME	5											5
CURIES	<1											0
CEG												
VOLUME						22						22
CURIES						1967						1,967
CF												
VOLUME	2500	4	45			84	42	58	<1		282	2,995
CURIES	385	<1	<1			<1	<1	<1	3		<1	388
CTF												
VOLUME	1083					54						1,138
CURIES	302					<1						303

1 VOLUME IN CUBIC METERS

2 * ML-1, GCRF, OMBR

3 #FACILITY TOTALS (EXCEPT FOR RFO) DO NOT INCLUDE DATA FOR 1952-1960:

4 THIS INFORMATION (11460 CUBIC METERS AND 60920 CURIES) IS REPORTED IN LUMP SUM UNDER WMC FOR 1960

5 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SD22AB01

Run Date: 05/28/1999

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY

DISPOSED WASTE

AREA / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
D+D												
VOLUME	2505	24	21	58	185	344	654	247	246	141	437	4,863
CURIES	5693	<1	<1	<1	<1	2	<1	<1	<1	<1	32	5,729
INTEC												
VOLUME	31247	513	752	544	129	7	127	157	145	150	729	34,500
CURIES	614661	115	211	24	2	<1	2	24	5	1	9	615,045
LOFT												
VOLUME	73											73
CURIES	3											3
NRF												
VOLUME	21095	134	419	270	159	146	222	165	96	347	388	23,442
CURIES	4230120	126489	74089	102848	49796	42198	36901	17619	14158	11707	5532	4,711,458
PBF												
VOLUME	1452	6		2			179			25	7	1,672
CURIES	597	<1		<1			<1			<1	<1	598
RFO												
VOLUME	73124											73,124
CURIES	258011											258,011
SMC												
VOLUME	103	21		24	50		34	5			495	732
CURIES	<1	<1		<1	<1		2	<1			<1	4
TAN												
VOLUME	8964	76	43	24	87	82	134	57	42	145	509	10,163
CURIES	101844	67	2658	<1	347	216	<1	24	157	2	6	105,321
TRA												
VOLUME	15921	62	37	72	179	28	196	133	24	35	121	16,808
CURIES	3883540	77	68	2430	909	298149	317	8226	105	4232	103	4,198,156
WAG1												
VOLUME										<1	<1	1
CURIES										<1	<1	0
WAG3												
VOLUME										1	69	70
CURIES										<1	<1	0

- 1 VOLUME IN CUBIC METERS
- 2 * ML-1, OGRF, OMRE
- 3 #FACILITY TOTALS (EXCEPT FOR RFO) DO NOT INCLUDE DATA FOR 1952-1960:
- 4 THIS INFORMATION (18460 CUBIC METERS AND 69920 CURIES) IS REPORTED IN LUMP SUM UNDER WMC FOR 1960
- 5 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY
DISPOSED WASTE

AREA / YEAR	1952- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
WAG7												
VOLUME											25	25
CURIES											<1	0
WERF												
VOLUME	919	328	359	248		7	5	289	111	489	968	3,722
CURIES	<1	<1	6	3		<1	<1	10	1	19	17	57
WMF												
VOLUME	19880	23	22					2	6			20,033
CURIES	60927	<1	<1					<1	<1			60,927
TOTAL VOLUME	203094	1384	1762	1272	844	852	1908	1159	677	1584	4224	218,718
CURIES	10982904	590070	207544	187565	143953	429594	49526	25907	14445	15972	5738	12,633,217

1 VOLUME IN CUBIC METERS
2 * ML-1, GCRF, OMRE
3 #FACILITY TOTALS (EXCEPT FOR RFO) DO NOT INCLUDE DATA FOR 1952-1960:
4 THIS INFORMATION (18460 CUBIC METERS AND 60920 CURIES) IS REPORTED IN LUMP SUM UNDER WMF FOR 1960
5 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY DISPOSED WASTE

ANLW 1989 - 1998 CONTAINERIZED DISPOSED WASTE

ARA 1989 - 1998 CONTAINERIZED DISPOSED WASTE

CEG 1989 - 1998 CONTAINERIZED DISPOSED WASTE

CF 1989 - 1998 CONTAINERIZED DISPOSED WASTE

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY DISPOSED WASTE

CTF 1989 - 1998 CONTAINERIZED DISPOSED WASTE

D+D 1989 - 1998 CONTAINERIZED DISPOSED WASTE

INTEC 1989 - 1998 CONTAINERIZED DISPOSED WASTE

NRF 1989 - 1998 CONTAINERIZED DISPOSED WASTE

Graph: G22AB02

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY DISPOSED WASTE

PBF 1989 - 1998 CONTAINERIZED DISPOSED WASTE

SMC 1989 - 1998 CONTAINERIZED DISPOSED WASTE

TAN 1989 - 1998 CONTAINERIZED DISPOSED WASTE

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY DISPOSED WASTE

TRA 1989 - 1998 CONTAINERIZED DISPOSED WASTE

WAG1 1989 - 1998 CONTAINERIZED DISPOSED WASTE

WAG3 1989 - 1998 CONTAINERIZED DISPOSED WASTE

Graph: G22AB04

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY DISPOSED WASTE

WAG7 1989 - 1998 CONTAINERIZED DISPOSED WASTE

WERF 1989 - 1998 CONTAINERIZED DISPOSED WASTE

WMF 1989 - 1998 CONTAINERIZED DISPOSED WASTE

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**INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY
ONSITE STORED WASTE**

AREA / YEAR	1952-1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ANLW												
VOLUME	49	<1	<1			<1	<1	<1	<1	<1	<1	53
CURIES	533062	49612	1569			794	<1	5148	1045	124	<1	591,354
INTEC												
VOLUME		2	7	17	159	112	702	142	28	209	972	2,347
CURIES		<1	<1	<1	4	5	56	14	15	4	11	109
NRF												
VOLUME											5	5
CURIES											<1	0
PBF												
VOLUME	6	23	21	24	10	7	6	25	48	38	49	258
CURIES	<1	<1	<1	<1	<1	<1	<1	<1	1	10	30	42
SMC												
VOLUME									<1			0
CURIES									<1			0
TAN												
VOLUME					1		25	<1	13	531	45	617
CURIES					<1		<1	<1	<1	15	1	16
TRA												
VOLUME			<1			<1					<1	0
CURIES			<1			<1					<1	0
WROC												
VOLUME											14	14
CURIES											<1	0
TOTAL VOLUME	55	25	29	41	171	120	734	169	87	778	1087	3,295
CURIES	533062	49613	1569	<1	4	799	56	5162	1061	153	43	591,522

1 VOLUMES IN CUBIC METERS
2 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEEL RECORD-TO-DATE SUMMARY STORED WASTE

ANLW 1989 - 1998 CONTAINERIZED STORED WASTE

INTEC 1989 - 1998 CONTAINERIZED STORED WASTE

NRF 1989 - 1998 CONTAINERIZED STORED WASTE

Graph: G22BB01

PBF 1989 - 1998 CONTAINERIZED STORED WASTE

INEEL RECORD-TO-DATE SUMMARY STORED WASTE

SMC 1989 - 1998 CONTAINERIZED STORED WASTE

TAN 1989 - 1998 CONTAINERIZED STORED WASTE

TRA 1989 - 1998 CONTAINERIZED STORED WASTE

WROC 1989 - 1998 CONTAINERIZED STORED WASTE

Graph: G22BB02

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY
ILTSF WASTE

AREA / YEAR	1952-1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ANLE												
VOLUME	48		12			6		3				69
CURIES	370		120			60		748				1,297
ANLW												
VOLUME	5											5
CURIES	8479											8,479
BET												
VOLUME	<1											0
CURIES	604											604
INTEC												
VOLUME	<1											0
CURIES	70											70
JCH												
VOLUME	4											4
CURIES	27											27
MDL												
VOLUME	5											5
CURIES	445											445
NRF												
VOLUME	3											3
CURIES	81											81
TAN												
VOLUME									2			2
CURIES									4568			4,568
TRA												
VOLUME							3					3
CURIES							4			<1		9
TOTAL VOLUME	66		12			6	3	3				92
CURIES	10075		120			60	4	748	4571			15,578

1 VOLUME IN CUBIC METERS

2 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SS22LB01

REPOS

Run Date: 05/28/1999

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY INTERMEDIATE LEVEL TRANSURANIC STORAGE FACILITY (ILTSF) WASTE

TRA 1989 - 1998 ILTSF CONTAINERIZED STORAGE WASTE

Graph: G22LB01

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Integrated Waste Tracking System

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY
TSA WASTE

AREA / YEAR	1952-1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ANLE												
VOLUME	1471											1,471
CURIES	8253											8,253
ANLW												
VOLUME	30	6	1	<1	<1				23	8	2	72
CURIES	693	126	23	<1	<1				<1	<1	<1	842
ARA												
VOLUME	10											10
CURIES	21											21
B+W												
VOLUME	4											4
CURIES	46											46
BCL												
VOLUME	214											214
CURIES	180											180
BEN												
VOLUME	<1											0
CURIES	19											19
BET												
VOLUME	433											433
CURIES	984											984
CF												
VOLUME	<1											0
CURIES	<1											0
CTF												
VOLUME	<1											0
CURIES	1											1
D+D												
VOLUME												0
CURIES			<1									3
			3									

1 VOLUMES IN CUBIC METERS
2 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY
TSA WASTE

AREA / YEAR	1952-1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
HANFD												
VOLUME											18	18
CURIES											958	958
INTEC												
VOLUME	43										<1	43
CURIES	342										<1	342
MDL												
VOLUME	11											11
CURIES	15											15
MRC												
VOLUME	3831											3,831
CURIES	69396											69,396
NRF												
VOLUME	3		<1									4
CURIES	331		8									339
RFO												
VOLUME	53428	867										54,294
CURIES	381379	6497										387,876
TAN												
VOLUME	<1							<1				1
CURIES	16							3				19
TRA												
VOLUME	8		2					<1				10
CURIES	1980		49					<1				2,030
WMF												
VOLUME	4415											4,415
CURIES	19823											19,823
TOTAL VOLUME	63904	873	4	<1	<1			<1	23	8	21	64,834
CURIES	483479	6623	83	<1	<1			4	<1	<1	958	491,146

1 VOLUMES IN CUBIC METERS
2 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SS22MB01
REPOS
Run Date: 05/28/1999

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY TRANSURANIC STORAGE AREA (TSA) WASTE

ANLW 1989 - 1998 TSA CONTAINERIZED STORAGE WASTE

D+D 1989 - 1998 TSA CONTAINERIZED STORAGE WASTE

HANFD 1989 - 1998 TSA CONTAINERIZED STORAGE WASTE

INTEC 1989 - 1998 TSA CONTAINERIZED STORAGE WASTE

INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY TRANSURANIC STORAGE AREA (TSA) WASTE

NRF 1989 - 1998 TSA STORAGE CONTAINERIZED WASTE

RFO 1989 - 1998 TSA STORAGE CONTAINERIZED WASTE

TAN 1989 - 1998 TSA STORAGE CONTAINERIZED WASTE

TRA 1989 - 1998 TSA STORAGE CONTAINERIZED WASTE

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY

WERF WASTE

AREA / YEAR	1954- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ANLW												
VOLUME	346	221	147	106	81				253	375	503	2,032
CURIES	<1	<1	<1	<1	<1				8	9	7	27
ARA												
VOLUME	21											21
CURIES	<1											0
CF												
VOLUME	171	37	74	<1	3	20	91			81	61	538
CURIES	<1	<1	<1	<1	<1	<1	<1			<1	<1	0
D+D												
VOLUME		2	4	98	5	53	75	47	14	157	141	597
CURIES		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
INTEC												
VOLUME	2096	1025	1246	695	59	55		198	398	485	149	6,384
CURIES	7	3	7	3	<1	<1		2	<1	<1	<1	23
ISU												
VOLUME											<1	0
CURIES											<1	0
NRF												
VOLUME	1691	667	892	427	187	268	213	392	266	891	1494	7,387
CURIES	2	2	4	7	2	1	1	2	3	3	6	33
PBF												
VOLUME	36	16	16		1	23			18	91	76	278
CURIES	<1	<1	<1		<1	<1			<1	<1	<1	0
SMC												
VOLUME	308	225	186	181			280		73	703	538	2,495
CURIES	<1	<1	<1	<1			<1		<1	<1	<1	1
TAN												
VOLUME	284	104	49	37				11	28	216	122	651
CURIES	<1	<1	<1	<1				<1	<1	<1	<1	1
TRA												
VOLUME	529	290	227	147	347			480	221	441	283	2,964
CURIES	<1	<1	<1	5	10			<1	<1	5	<1	21

1 VOLUME IN CUBIC METERS

2 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SS22PB01

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INEEL CONTAINERIZED RECORD-TO-DATE SUMMARY

WERF WASTE

AREA / YEAR	1954- 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
WAG3												
VOLUME										<1		0
CURIES										<1		0
WAG7												
VOLUME											<1	0
CURIES											<1	0
WERF												
VOLUME									3	721	1791	2,515
CURIES									<1	5	7	13
WMF												
VOLUME	4		6	6					192	219	<1	429
CURIES	<1		<1	<1					<1	<1	<1	0
WROC												
VOLUME										44	19	63
CURIES										<1	<1	0
TOTAL VOLUME	5487	2587	2847	1697	683	420	659	1128	1465	4404	5177	26,554
CURIES	11	6	12	15	12	2	1	4	12	23	22	121

- 1 VOLUME IN CUBIC METERS
 2 DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEEL RECORD-TO-DATE SUMMARY CONTAINERIZED WASTE SENT TO WERF FOR REDUCTION

ANLW 1989 - 1998

D+D 1989 - 1998

INTEC 1989 - 1998

INEEL RECORD-TO-DATE SUMMARY CONTAINERIZED WASTE SENT TO WERF FOR REDUCTION

ISU 1989 - 1998

PBF 1989 - 1998

SMC 1989 - 1998

Graph: G22PB02

INEEL RECORD-TO-DATE SUMMARY CONTAINERIZED WASTE SENT TO WERF FOR REDUCTION

TAN 1989 - 1998

TRA 1989 - 1998

WAG3 1989 - 1998

WAG7 1989 - 1998

Graph: G22PB03

INEEL RECORD-TO-DATE SUMMARY CONTAINERIZED WASTE SENT TO WERF FOR REDUCTION

WERF 1989 - 1998

WMF 1989 - 1998

WROC 1989 - 1998

Graph: G22PB04

INEEL 1998 Year-to-Date Summary

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INEEL Year-To-Date Summary CY 1998 Pie ChartsINEEL-46
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**INEEL YEAR TO DATE SUMMARY
FOR JAN THROUGH DEC 1998**

FACILITY	1. AIRBORNE		2. LIQUID		3. CONTAINERIZED	
	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)
DISPOSED WASTES						
ANLW	2.399E+09	4.719E+03			2.154E+02	3.878E+01
CF					2.625E+02	1.066E-01
D+D					4.375E+02	3.201E+01
INTEC	2.426E+09	5.429E-03	1.957E+09	1.129E-02	7.288E+02	8.604E+00
NRF	3.864E+09	1.145E+00			3.877E+02	5.532E+03
PBF	4.756E+07	1.662E-07			7.249E+00	6.466E-01
SMC	2.826E+09	5.066E-03			4.948E+02	5.267E-01
TAN	1.110E+08	3.609E-07			5.087E+02	5.617E+00
TRA	1.396E+09	1.201E+03	1.529E+07	7.847E+01	1.205E+02	1.033E+02
WAG1					4.164E-01	7.139E-03
WAG3					6.901E+01	1.619E-03
WAG7					2.545E+01	9.912E-07
WERF	1.729E+08	1.534E-02			9.663E+02	1.688E+01
DISPOSED WASTES SUBTOTAL	1.324E+10	5.921E+03	1.972E+09	7.848E+01	4.224E+03	5.738E+03

* Solid values for WERF are for waste disposed at RWMC and are end products of WBRF reduction processes.

INEEL YEAR TO DATE SUMMARY
FOR JAN THROUGH DEC 1998

FACILITY	Low Level Waste		RADIO- ACTIVITY CURIES
	VOLUME (CU. METERS)		
STORED WASTES			
INTEC WASTE FROM:			
INTEC	2.865E+02		3.592E+00
TRA	3.625E+01		7.791E-05
WERF	3.625E+00		1.229E-03
	3.264E+02		3.594E+00
TAN WASTE FROM:			
TAN	2.900E+01		3.259E-02
	2.900E+01		3.259E-02
TRA WASTE FROM:			
WERF	1.699E-01		2.450E-04
	1.699E-01		2.450E-04
STORED WASTES SUBTOTAL			
	3.556E+02		3.626E+00

1 • Solid values for WERF are for waste disposed at RWMC and are end products of WERF reduction processes.

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**INEEL YEAR TO DATE SUMMARY
FOR JAN THROUGH DEC 1998**

	CONTAINERIZED	
FACILITY	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)
WASTES TO BE PROCESSED AT WERF FROM:		
ANLW	5.025E+02	6.912E+00
CF	6.140E+01	1.521E-01
D+D	1.406E+02	1.497E-01
INTEC	1.486E+02	2.689E-01
ISU	4.164E-01	1.120E-04
NRF	1.494E+03	5.820E+00
PBF	7.613E+01	1.891E-04
SMC	5.376E+02	8.773E-01
TAN	1.219E+02	5.689E-01
TRA	2.825E+02	3.347E-01
WAG7	2.082E-01	1.689E-08
WERF	1.791E+03	7.323E+00
WMF	8.269E-01	5.769E-07
WROC	1.933E+01	9.723E-06
WERF WASTES SUBTOTAL	5.177E+03	2.241E+01

1 * Solid values for WERF are for waste disposed at RWMC and are end products of WERF reduction processes.

INEEL YEAR-TO-DATE SUMMARY CY 1998

INEEL AIRBORNE EMISSIONS

Volume (Cubic Meters)
Areas not listed have values <1% of the total

Radioactivity (Curies)

INEEL LIQUID EFFLUENT

Volume (Liters)
Areas not listed have values <1% of the total

Radioactivity (Curies)

Graph: G009B01

INEEL CONTAINERIZED WASTE VOLUME (Cubic Meters) DISPOSED AT RWMC AND SENT FOR REDUCTION EFFORTS

Areas not listed have values <1% of the total

Nuclide Summary in Curies for Airborne, Liquid, and Solid Waste

Airborne Nuclide Summaries in Curies, 1998	INEEL-51
Liquid Nuclide Summary in Curies, 1998	INEEL-55
Disposed Solid Waste Nuclide Summary in Curies, 1998	INEEL-56
TRU Storage Area Nuclide Summary in Curies, 1998	INEEL-61
ANL-W Stored Storage Area Nuclide Summary in Curies, 1998	INEEL-62
INTEC Stored Storage Area Nuclide Summary in Curies, 1998	INEEL-63
TAN Stored Storage Area Nuclide Summary in Curies, 1998	INEEL-66
TRA Stored Storage Area Nuclide Summary in Curies, 1998	INEEL-67
WERF Stored Storage Area Nuclide Summary in Curies, 1998	INEEL-68
Processed Nuclide Summary in Curies, 1998	INEEL-72

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AIRBORNE
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN AREA	ANLW	INTEC	NRF	PBF	SMC	TAN	TRA	WERF	TOTAL
IDENT									
AC-227				<1					<1
AC-228				<1					<1
AG-110M				<1					<1
AM-241				<1					<1
AM-243		<1							<1
AR-41	2						1172	<1	1175
BA-137M				<1					<1
BA-139							<1		<1
BA-140							<1		<1
BI-212				<1					<1
C-14			<1					<1	<1
OD-113M				<1					<1
CE-144				<1					<1
CM-242				<1					<1
CM-243				<1					<1
CM-244				<1					<1
CM-246				<1					<1
CO-57				<1					<1
CO-58				<1			<1		<1
CO-60		<1		<1			<1		<1
CR-51				<1			<1		<1
CS-134		<1		<1			<1		<1
CS-137		<1		<1			<1		<1
CS-138		<1					<1		<1
EU-152				<1			<1		<1
EU-154				<1			<1		<1
EU-155				<1			<1		<1
FE-55				<1					<1
FE-59				<1					<1

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**AIRBORNE
NUCLIDE SUMMARY IN CURIES
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IDENT	ANLW	INTEC	NRF	PBF	SMC	TAN	TRA	WERF	TOTAL
GD-153							<1		<1
GROS-BET-GAM	<1								<1
GROSS-ALPHA	<1		<1	<1		<1	<1		<1
GROSS-BETA			<1	<1		<1	<1		<1
H-3	30	<1	<1	<1				<1	30
HF-175				<1					<1
HF-181				<1					<1
HG-203			<1				<1		<1
I-129		<1		<1				<1	<1
I-131			<1				<1		<1
I-133							<1		<1
I-135							<1		<1
K-40				<1					<1
KR-85	4687		<1	<1					4687
KR-85M							2		2
LA-140							<1		<1
MN-54				<1					<1
MN-56							<1		<1
NA-24							<1		<1
NB-94				<1					<1
NB-95				<1					<1
NI-59				<1					<1
NI-63				<1					<1
NP-237				<1					<1
PA-231				<1					<1
PA-233				<1					<1
PA-234				<1	<1				<1
PA-234M				<1					<1
PB-212				<1					<1

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**AIRBORNE
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998**

IDENT	ANLW	INTEC	NRF	PBF	SMC	TAN	TRA	WERF	TOTAL
PM-147				<1					<1
PO-212				<1					<1
PO-216				<1					<1
PR-144				<1					<1
PU-238		<1		<1					<1
PU-239		<1		<1				<1	<1
PU-240				<1					<1
PU-241				<1					<1
PU-242				<1					<1
RA-224				<1					<1
RA-228				<1					<1
RB-88							1		1
RE-188							<1		<1
RH-108				<1					<1
RN-220				<1					<1
RU-108		<1		<1					<1
SB-124				<1					<1
SB-125		<1		<1					<1
SE-75				<1					<1
SM-151				<1					<1
SN-113				<1					<1
SR-90		<1		<1			<1		<1
TA-182				<1					<1
TC-99				<1					<1
TC-99M							<1		<1
TH-228				<1				<1	<1
TH-230				<1				<1	<1
TH-231				<1					<1
TH-232				<1				<1	<1

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**AIRBORNE
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998**

IDENT	ANLW	INTEC	NRF	PBF	SMC	TAN	TRA	WERF	TOTAL
TH-234				<1	<1				<1
TL-208				<1					<1
U-233								<1	<1
U-233-234								<1	<1
U-234				<1	<1			<1	<1
U-235				<1					<1
U-238				<1					<1
U-238				<1	<1			<1	<1
W-187							<1		<1
XE-131M	<1								<1
XE-133							8		8
XE-135							19		19
Y-90				<1			<1		<1
Y-91M							<1		<1
ZN-65				<1					<1
ZR-95				<1					<1
TOTAL	4719	<1	1	<1	<1	<1	1201	<1	5921

INEEL-54

LIQUID
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN AREA	INTC	TRA	TOTAL
IDENT			
CE-141	<1	<1	<1
CE-144	<1	<1	<1
CO-58	<1	<1	<1
CO-60	<1	<1	<1
CR-51	2	2	2
CS-137	<1	<1	<1
GROSS-BETA	<1	<1	<1
H-3	75	75	75
HF-175	<1	<1	<1
HF-181	<1	<1	<1
MN-54	<1	<1	<1
NA-24	<1	<1	<1
NB-95	<1	<1	<1
RU-103	<1	<1	<1
SR-89	<1	<1	<1
SR-90	<1	<1	<1
Y-90	<1	<1	<1
ZN-65	<1	<1	<1
ZR-95	<1	<1	<1
TOTAL	<1	78	78

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DISPOSED SOLID WASTE
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN AREA IDENT	ANLW	CF	D+D	INTEC	NRF	PBF	SMC	TAN	TRA	WAG1	WAG3	WAG7	WERF	TOTAL
AC-225													<1	<1
AC-227		<1											<1	<1
AC-228													<1	<1
AG-108									<1					<1
AG-108M									<1				<1	<1
AG-110M	<1		<1			<1		<1					<1	<1
AM-241	<1	<1	<1	<1	<1	<1		<1	<1				<1	<1
AM-242M													<1	<1
AM-243													<1	<1
AT-217													<1	<1
BA-133			<1											<1
BA-137	<1	<1	<1										<1	<1
BA-137M	1	<1	4	<1	<1			<1	<1	<1	<1		<1	6
BA-140													<1	<1
BI-210													<1	<1
BI-212													<1	<1
BI-213													<1	<1
BI-214													<1	<1
C-14		<1	<1	<1	<1				<1	<1			<1	<1
CD-113M	<1												<1	<1
CE-137								<1					<1	<1
CE-141									<1				<1	<1
CE-144	1								<1				<1	2
CM-242		<1						<1					<1	<1
CM-244		<1	<1					<1	<1				<1	<1
CO-57	<1												<1	<1

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**DISPOSED SOLID WASTE
NUCLIDE SUMMARY IN CURIES
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NUCLIDE / GEN AREA IDENT	ANLW	CF	D+D	INTEC	NRF	PBF	SMC	TAN	TRA	WAG1	WAG3	WAG7	WERF	TOTAL
CO-58	<1			<1	605				<1				<1	606
CO-60	<1	<1	<1	<1	1030	<1		<1	6	<1		<1	2	1039
CR-51					<1				39				<1	39
CS-134	<1	<1	<1			<1		<1	<1			<1	<1	<1
CS-135													<1	<1
CS-137	2	<1	4	4	<1	<1		3	<1	<1	<1		<1	16
EU-152		<1	<1	<1		<1		<1	15				<1	16
EU-154	<1	<1	<1	<1		<1		<1	22				<1	22
EU-155	<1	<1	<1	<1				<1	15				<1	15
FB-55	19	<1	<1		1156	<1		<1	<1	<1			7	1183
FB-59													<1	<1
FR-221													<1	<1
GD-152													<1	<1
GD-153									<1				<1	<1
H-3	<1	<1			2			<1	<1				<1	3
HB-3								<1						<1
HF-175					40								<1	40
HF-181					116				<1				<1	116
I-129			<1		<1	<1			<1				<1	<1
I-131									<1					<1
IN-113M													<1	<1
IR-192									<1					<1
K-40								<1	<1				<1	<1
KR-85													<1	<1
LA-140	<1								<1				<1	<1
MN-54	6		<1		68				<1				1	75

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**DISPOSED SOLID WASTE
NUCLIDE SUMMARY IN Curies
FOR JANUARY THROUGH DECEMBER 1998**

NUCLIDE / GEN AREA IDENT	ANLW	CF	D+D	INTEC	NRF	PBF	SMC	TAN	TRA	WAG1	WAG3	WAG7	WERF	TOTAL
MO-93	<1												<1	<1
MO-99													<1	<1
NA-22	<1												<1	<1
NB-93M					<1								<1	<1
NB-94			<1		<1								<1	<1
NB-95	<1				101				<1				<1	101
NI-59	<1	<1	<1		16				<1	<1			<1	16
NI-63	<1	<1	<1	<1	1935	<1		<1	<1	<1			<1	1937
NP-237			<1										<1	<1
NP-239													<1	<1
PA-231		<1											<1	<1
PA-234		<1											<1	<1
PA-234M		<1					<1		<1				<1	<1
PB-209													<1	<1
PB-210													<1	<1
PB-212													<1	<1
PB-214													<1	<1
PD-107													<1	<1
PM-147	3	<1	20	<1				<1	<1	<1	<1		<1	24
PO-210									<1				<1	<1
PO-212													<1	<1
PO-213													<1	<1
PO-214													<1	<1
PO-216													<1	<1
PO-218													<1	<1
PR-144	1												<1	2

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**DISPOSED SOLID WASTE
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998**

NUCLIDE / GEN AREA IDENT	ANLW	CF	D+D	INTEC	NRF	PBF	SMC	TAN	TRA	WAG1	WAG3	WAG7	WERF	TOTAL
PR-144M	<1												<1	<1
PU-238	<1	<1	<1	<1	<1	<1		<1	<1				<1	<1
PU-239	<1	<1	<1	<1		<1		<1	<1				<1	<1
PU-240	<1	<1	<1	<1		<1		<1					<1	<1
PU-241	<1		<1	<1	<1			<1	<1				<1	<1
RA-224													<1	<1
RA-225													<1	<1
RA-226		<1	<1	<1				<1					<1	<1
RA-228													<1	<1
RH-103M									<1					<1
RH-105									1					1
RH-106	<1								<1				<1	<1
RN-220													<1	<1
RN-222													<1	<1
RU-103		<1							<1					<1
RU-106	<1	<1	<1		<1				<1				<1	<1
SB-124									<1					<1
SB-125	<1	<1	<1		124			<1	<1				<1	124
SC-46									<1					<1
SM-151	<1			<1									<1	<1
SN-113													<1	<1
SN-119M	<1				114								<1	114
SN-123	<1												<1	<1
SN-126													<1	<1
SR-90	2	<1	2	3	<1	<1		<1	<1	<1	<1		<1	7
TA-182					182								<1	182

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**DISPOSED SOLID WASTE
NUCLIDE SUMMARY IN CURIES
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NUCLIDE / GEN AREA IDENT	ANLW	CF	D+D	INTEC	NRF	PBF	SMC	TAN	TRA	WAG1	WAG3	WAG7	WERF	TOTAL
TC-99			<1		<1	<1	<1	<1	<1				<1	<1
TE-125M	<1												<1	<1
TE-127M	<1												<1	<1
TH-228		<1	<1	<1				<1	<1				<1	<1
TH-229													<1	<1
TH-230		<1	<1	<1		<1		<1	<1				<1	<1
TH-231		<1					<1						<1	<1
TH-232		<1	<1	<1				<1	<1				<1	<1
TH-234		<1	<1				<1		<1	<1			<1	<1
TL-208													<1	<1
TL-209													<1	<1
U-228			<1											<1
U-232							<1						<1	<1
U-233	<1			<1			<1		<1				<1	<1
U-234	<1	<1	<1	<1		<1	<1	<1	<1	<1			<1	<1
U-235	<1	<1	<1	<1		<1	<1	<1	<1	<1			<1	<1
U-236				<1			<1		<1				<1	<1
U-237													<1	<1
U-238	<1	<1	<1	<1			<1	<1	<1	<1			<1	<1
Y-90	2	<1	<1	<1	<1			<1	<1	<1	<1		<1	3
Y-91													<1	<1
ZN-65	<1	<1	<1			<1			<1				<1	<1
ZR-93													<1	<1
ZR-95	<1			<1	42			<1	<1				<1	43
TOTAL	39	<1	32	9	5532	<1	<1	6	103	<1	<1	<1	17	5738

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TRANSURANIC STORAGE AREA
NUCLIDE SUMMARY IN Curies
FOR JANUARY THROUGH DECEMBER 1988

NUCLIDE / GEN ARE / IDENT	ANLW	HANFD	INTEC	TOTAL
AM-241	<1	<1	<1	<1
BA-137				
BA-137M		<1		<1
CO-60		<1		<1
CS-137		<1		<1
EU-184		<1		<1
EU-185		<1		<1
NP-237		<1		<1
PA-233		<1		<1
PA-234M		<1		<1
PU-238	<1	<1	<1	<1
PU-239	<1	<1	<1	<1
PU-240	<1	<1		<1
PU-241	<1	<1		<1
PU-242	<1	<1		<1
SR-90		<1		<1
TH-231		<1		<1
TH-234		<1		<1
U-234		<1		<1
U-235	<1	<1	<1	<1
U-236		<1		<1
U-238		<1	<1	<1
Y-90		957		957
TOTAL	<1	958	<1	958

ANLW
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN ARE/ IDENT	NRF	TOTAL
BA-137M	<1	<1
C-14	<1	<1
CO-60	<1	<1
CS-137	<1	<1
H-3	<1	<1
I-129	<1	<1
NB-93M	<1	<1
NI-59	<1	<1
SR-90	<1	<1
TC-99	<1	<1
Y-90	<1	<1
TOTAL	<1	<1

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INTEC
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN ARE/ IDENT	INTEC	TRA	WERF	TOTAL
AC-227	<1			<1
AG-110M	<1			<1
AM-241	<1			<1
BA-137M	<1			<1
C-14	<1			<1
CD-113M	<1			<1
CE-144	<1		<1	<1
CM-242	<1			<1
CO-58	<1		<1	<1
CO-60	<1		<1	<1
CR-51			<1	<1
CS-134	<1			<1
CS-135	<1			<1
CS-137	2		<1	2
EU-152	<1			<1
EU-154	<1			<1
EU-155	<1			<1
FE-59			<1	<1
H-3	<1			<1
HF-181			<1	<1
I-129	<1			<1
MN-54			<1	<1
NB-93M	<1			<1
NB-94	<1			<1
NB-95	<1		<1	<1
NI-63	<1			<1
NP-237	<1			<1
PA-231	<1			<1
PM-147	<1			<1
PR-144	<1		<1	<1

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INTEC
NUCLIDE SUMMARY IN CURIES
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NUCLIDE / GEN ARE/ IDENT	INTEC	TRA	WERF	TOTAL
PU-238	<1			<1
PU-238	<1			<1
PU-239	<1			<1
PU-240	<1			<1
PU-241	<1			<1
PU-242	<1			<1
RB-87	<1			<1
RH-108	<1		<1	<1
RU-108	<1		<1	<1
SB-125	<1		<1	<1
SB-128	<1			<1
SB-128M	<1			<1
SE-79	<1			<1
SM-147	<1			<1
SM-151	<1			<1
SN-121M	<1			<1
SN-128	<1			<1
SR-90	<1		<1	<1
TA-182		<1		<1
TC-99	<1			<1
TE-125M	<1			<1
TH-228	<1			<1
TH-230	<1			<1
U-232	<1			<1
U-234	<1			<1
U-235	<1			<1
U-236	<1			<1
U-238	<1			<1
Y-90	<1		<1	<1
ZN-65		<1		<1

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INTEC
NUCLIDE SUMMARY IN Curies
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN AREA/ IDENT	INTEC	TRA	WERF	TOTAL
ZR-93	<1			<1
ZR-95	<1		<1	<1
TOTAL	4	<1	<1	4

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TAN
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN ARE/ IDENT	TAN	TOTAL
AM-241	<1	<1
BA-137	<1	<1
CO-60	<1	<1
CS-134	<1	<1
CS-137	<1	<1
EU-154	<1	<1
FE-55	<1	<1
I-129	<1	<1
NI-63	<1	<1
RH-106	<1	<1
RU-106	<1	<1
SB-125	<1	<1
SR-90	<1	<1
TC-99	<1	<1
Y-90	<1	<1
TOTAL	<1	<1

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TRA
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN ARE/ IDENT	WERF	TOTAL
CS-137	<1	<1
TOTAL	<1	<1

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WERF
NUCLIDE SUMMARY IN CURIES
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NUCLIDE / GEN AREA/ IDENT	ANLW	CF	D+D	ISU	NRF	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
AC-227									<1		<1		<1
AC-228			<1								<1		<1
AG-108			<1										<1
AG-108M											<1		<1
AG-110			<1								<1		<1
AG-110M		<1									<1		<1
AM-241		<1	<1			<1		<1	<1			<1	<1
AM-243											<1		<1
BA-133			<1										<1
BA-137											<1		<1
BA-137M		<1			<1	<1		<1	<1		<1		<1
BI-212			<1					<1			<1		<1
BI-214			<1								<1		<1
C-14			<1			<1			<1		<1		<1
CD-109			<1										<1
CD-113											<1		<1
CD-113M		<1									<1		<1
CE-134								<1					<1
CE-137								<1					<1
CE-139			<1										<1
CE-141											<1		<1
CE-144		<1	<1			<1					<1		<1
CM-244		<1	<1			<1					<1		<1
CO-57			<1			<1					<1		<1
CO-58		<1	<1			<1			<1		<1		<1
CO-60		<1	<1	<1		<1		<1	<1	<1	<1		<1
CR-51						<1			<1		<1		<1
CS-134		<1	<1			<1		<1	<1	<1	<1		<1
CS-135		<1										<1	<1
CS-137		<1	<1	<1	<1	<1		<1	<1		<1	<1	<1

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WERF
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN ARE/ IDENT	ANLW	CF	D+D	ISU	NRF	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
EU-152						<1			<1		<1	<1	<1
EU-154		<1	<1			<1		<1	<1		<1		<1
EU-155		<1	<1			<1					<1		<1
FE-55		2	<1			<1		<1	<1		<1		2
FE-59			<1			<1			<1		<1		<1
GD-153						<1					<1		<1
H-3		<1	<1			<1		<1			<1		<1
HF-175						<1					<1		<1
HF-181						<1			<1		<1		<1
I-125			<1										<1
I-129			<1			<1			<1		<1		<1
IN-113M											<1		<1
IR-192											<1		<1
K-40			<1					<1			<1	<1	<1
KR-85						<1					<1		<1
LA-140		<1									<1		<1
MFP											<1		<1
MN-54		<1	<1			<1			<1		<1	<1	<1
MO-93		<1									<1		<1
MO-99						<1					<1		<1
NA-22		<1									<1		<1
NB-93M		<1									<1		<1
NB-94			<1			<1					<1		<1
NB-95		<1				<1			<1		<1		<1
NI-59		<1				<1			<1		<1		<1
NI-63		<1	<1			<1		<1	<1		<1		<1
NP-237											<1		<1
PA-231									<1		<1		<1
PA-233											<1		<1
PA-234									<1		<1		<1

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WERF
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN AREA/ IDENT	ANLW	CF	D+D	ISU	NRF	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
PA-234M							<1	<1	<1		<1		<1
PB-212			<1			<1		<1			<1		<1
PB-214			<1										<1
PM-147		<1				<1			<1		<1		<1
PO-212											<1		<1
PO-216								<1			<1		<1
PR-144						<1					<1		<1
PR-144M		<1									<1		<1
PU-238		<1	<1			<1		<1	<1		<1		<1
PU-239		<1	<1			<1		<1			<1		<1
PU-240		<1						<1			<1		<1
PU-241		<1				<1		<1	<1		<1		<1
RA-224								<1			<1		<1
RA-226			<1									<1	<1
RA-228			<1					<1			<1		<1
RH-106		<1				<1					<1	<1	<1
RN-220											<1		<1
RU-103											<1		<1
RU-106		<1	<1			<1					<1		<1
S-35			<1										<1
SB-124									<1		<1		<1
SB-125		<1	<1			<1		<1	<1			<1	<1
SC-48									<1		<1		<1
SM-151		<1				<1					<1		<1
SN-113			<1			<1					<1		<1
SN-119M		<1											<1
SN-123		<1											<1
SR-85			<1										<1
SR-90		<1	<1	<1	<1	<1		<1	<1		<1		<1
TA-182						<1			<1		<1		<1

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WERF
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1998

NUCLIDE / GEN ARE/ IDENT	ANLW	CF	D+D	ISU	NRF	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
TC-99		<1	<1			<1	<1				<1		<1
TE-125M											<1		<1
TE-127M		<1											<1
TH-227			<1										<1
TH-228						<1		<1			<1		<1
TH-230								<1	<1		<1	<1	<1
TH-231							<1		<1		<1		<1
TH-232						<1		<1			<1	<1	<1
TH-234							<1	<1	<1		<1		<1
TL-208			<1								<1		<1
U-232							<1						<1
U-233						<1		<1			<1	<1	<1
U-234							<1		<1		<1		<1
U-235		<1	<1			<1	<1	<1	<1		<1	<1	<1
U-236							<1				<1		<1
U-238			<1			<1	<1	<1	<1		<1	<1	<1
Y-88			<1										<1
Y-90		<1	<1		<1	<1		<1	<1		<1		<1
ZN-65			<1						<1		<1		<1
ZR-93		<1									<1		<1
ZR-95		<1				<1			<1		<1		<1
TOTAL	3	<1	<1	<1	<1	1	<1	<1	<1	<1	1	<1	7

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NUCLIDE SUMMARY IN CURIES
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NUCLIDE IDENT / GEN AREA	ANLW	CF	D+D	INTEC	ISU	KAPCT	KAPNY	LOS	NNS	NRF	PBF	PHNSY	PSNSY	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
AC-225																			<1		<1
AC-227								<1			<1				<1	<1		<1			<1
AC-228		<1					<1				<1							<1		<1	<1
AG-108		<1																			<1
AG-108M			<1												<1	<1		<1			<1
AG-110		<1																<1			<1
AG-110M	<1									<1	<1			<1				<1			<1
AM-241	<1	<1	<1							<1	<1	<1			<1	<1		<1	<1		<1
AM-242M	<1																		<1		<1
AM-243																			<1		<1
AT-217																			<1		<1
BA-133		<1																			<1
BA-137											<1							<1			<1
BA-137M	<1	<1			<1		<1	<1		<1	<1	<1	<1		<1	<1	1			<1	1
BA-140	<1									<1											<1
BI-210															<1			<1			<1
BI-212		<1					<1				<1				<1			<1			<1
BI-213																		<1			<1
BI-214		<1													<1			<1			<1
C-14		<1		<1		<1	<1		<1	<1	<1	<1	<1		<1	<1		<1			<1
CD-109		<1																			<1
CD-113											<1							<1			<1
CD-113M	<1																	<1			<1
CE-134															<1						<1
CE-137															<1						<1
CE-139		<1																			<1
CE-141	<1															<1		<1			<1

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NUCLIDE SUMMARY IN CURIES
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NUCLIDE IDENT / GEN AREA	ANLW	CF	D+D	INTEC	ISU	KAPCT	KAPNY	LOS	NNS	NRF	PBF	PHNSY	PSNSY	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
CE-144	<1	<1		<1						<1	<1		<1			<1		<1			<1
CF-249																		<1			<1
CF-251																		<1			<1
CM-242											<1				<1			<1			<1
CM-243											<1							<1			<1
CM-244	<1	<1	<1							<1	<1	<1			<1			<1			<1
CM-245											<1							<1			<1
CM-246											<1							<1			<1
CM-247																		<1			<1
CM-248																		<1			<1
CO-57		>1		>1						<1	<1		<1					<1		<1	<1
CO-58	<1	>1		>1			>1		<1	<1	<1		<1			<1		<1			<1
CO-60	<1	>1	<1	>1		<1	>1		<1	2	<1	<1	<1		<1	<1	<1	<1		<1	4
CR-51										<1								<1			<1
CS-134	<1	<1								<1	<1		<1		<1	<1	<1	<1		<1	<1
CS-135	<1																	<1			<1
CS-137	<1	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1		<1	<1		1		<1	2
EU-152	<1			<1		<1				<1	<1	<1	<1			<1		<1		<1	<1
EU-154	<1	<1		<1		<1				<1	<1	<1	<1		<1	<1		<1			<1
EU-155	<1	<1								<1	<1	<1	<1			<1		<1			<1
FE-55	4	<1		<1		<1	<1		<1	3	<1	<1	<1		<1	<1		10			17
FE-59		<1								<1	<1		<1			<1		<1			<1
FR-221																		<1			<1
GD-152																		<1			<1
GD-153										<1								<1			<1
H-3	<1	<1				<1	<1	<1		<1	<1		<1		<1			<1			<1
HF-175										<1	<1		<1					<1			<1

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NUCLIDE IDENT / GEN AREA	ANLW	CF	D+D	INTEC	ISU	KAPCT	KAPNY	LOS	NNS	NRF	PBF	PHNSY	PSNSY	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
HF-181										<1	<1		<1			<1		<1			<1
I-125		<1																<1			<1
I-129		<1		<1						<1						<1		<1			<1
I-131																		<1			<1
IN-113M										<1								<1			<1
IR-192																<1		<1			<1
K-40		<1									<1		<1		<1			<1	<1		<1
KR-85										<1	<1	<1						<1			<1
LA-140	<1															<1		<1			<1
MFP															<1			<1			<1
MN-53																		<1			<1
MN-54		<1		<1		<1	<1		<1	<1	<1		<1			<1				<1	2
MO-93	<1																	<1			<1
MO-99										<1								<1			<1
NA-22	<1																	<1			<1
NB-93M	<1								<1	<1	<1	<1	<1					<1			<1
NB-94		<1								<1	<1	<1	<1					<1			<1
NB-95	<1			<1						<1	<1		<1			<1		<1			<1
NI-59	<1					<1	<1			<1	<1	<1	<1		<1	<1		<1			<1
NI-63	<1	<1		<1		<1	<1		<1	<1	<1	<1	<1		<1	<1		<1			2
NP-237			<1								<1							<1			<1
NP-239	<1																	<1			<1
P-32																		<1			<1
PA-231								<1			<1				<1	<1		<1			<1
PA-233											<1							<1			<1
PA-234		<1						<1		<1	<1				<1	<1		<1			<1
PA-234M		<1					<1	<1		<1	<1			<1	<1	<1		<1			<1

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NUCLIDE SUMMARY IN CURIES
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NUCLIDE IDENT / GEN AREA	ANLW	CF	D+D	INTEC	ISU	KAPCT	KAPNY	LOS	NNS	NRF	PBF	PHNSY	PSNSY	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
PB-209																		<1			<1
PB-210															<1			<1			<1
PB-212		<1								<1	<1				<1			<1		<1	<1
PB-214		<1													<1			<1			<1
PD-107	<1																	<1			<1
PM-147	<1							<1		<1	<1	<1	<1		<1	<1		<1			<1
PO-210															<1			<1			<1
PO-212								<1			<1							<1			<1
PO-213																		<1			<1
PO-214															<1			<1			<1
PO-216								<1			<1				<1			<1			<1
PO-218															<1			<1			<1
PR-144	<1			<1						<1	<1		<1					<1			<1
PR-144M	<1																	<1			<1
PU-238	<1	<1	<1					<1		<1	<1	<1			<1	<1		<1			<1
PU-239	<1	<1	<1					<1		<1	<1	<1			<1	<1		<1			<1
PU-240	<1		<1					<1		<1	<1	<1			<1			<1			<1
PU-241	<1									<1	<1	<1	<1		<1	<1		<1	<1		<1
PU-242																		<1			<1
PU-244																		<1			<1
RA-224								<1			<1				<1			<1			<1
RA-225																		<1			<1
RA-226		<1									<1				<1			<1	<1		<1
RA-228		<1									<1				<1			<1			<1
RH-103M																		<1			<1
RH-106	<1			<1					<1	<1	<1		<1					<1		<1	<1
RN-220								<1			<1							<1			<1

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PROCESSED
NUCLIDE SUMMARY IN CURIES
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NUCLIDE IDENT / GEN AREA	ANLW	CF	D+D	INTEC	ISU	KAPCT	KAPNY	LOS	NNS	NRF	PBF	PHNSY	PSNSY	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
RN-222															<1			<1			<1
RU-103				<1												<1		<1			<1
RU-106	<1	<1		<1					<1	<1	<1		<1					<1			<1
S-35		<1																<1			<1
SB-124										<1	<1		<1			<1		<1			<1
SB-125	<1	<1		<1		<1	<1		<1	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1
SC-46																<1		<1			<1
SE-75											<1		<1					<1			<1
SE-79																		<1			<1
SM-151	<1									<1	<1	<1						<1			<1
SN-113		<1								<1	<1		<1					<1			<1
SN-119M	<1																	<1			<1
SN-123	<1																	<1			<1
SN-126	<1																	<1			<1
SR-85		<1																			<1
SR-90	<1	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1		<1	<1		<1			<1
TA-182									<1	<1	<1		<1			<1		<1			<1
TC-99	<1	<1		<1				<1		<1	<1	<1	<1	<1				<1			<1
TE-125M										<1	<1							<1			<1
TE-127M	<1																	<1			<1
TH-227		<1																			<1
TH-228			<1				<1			<1	<1				<1			<1		<1	<1
TH-229																		<1			<1
TH-230			<1				<1				<1				<1	<1		<1	<1	<1	<1
TH-231								<1		<1	<1			<1	<1	<1		<1			<1
TH-232			<1				<1			<1	<1				<1			<1	<1	<1	<1
TH-234		<1					<1	<1		<1	<1			<1	<1	<1		<1			<1

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**PROCESSED
NUCLIDE SUMMARY IN CURIES
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NUCLIDE IDENT / GEN AREA	ANLW	CF	D+D	INTEC	ISU	KAPCT	KAPNY	LOS	NNS	NRF	PBF	PHNSY	PSNSY	SMC	TAN	TRA	WAG7	WERF	WMF	WROC	TOTAL
TL-208		<1									<1							<1			<1
TL-209																		<1			<1
U-232										<1				<1				<1			<1
U-233	<1									<1				<1	<1	<1		<1	<1		<1
U-234		<1	<1				<1	<1		<1	<1			<1	<1	<1		<1		<1	<1
U-235	<1	<1	<1				<1	<1		<1	<1			<1	<1	<1		<1	<1	<1	<1
U-236	<1		<1								<1			<1		<1		<1			<1
U-237	<1																	<1			<1
U-238	<1	<1	<1				<1	<1		<1	<1			<1	<1	<1		<1	<1	<1	<1
Y-88		<1																<1			<1
Y-90	<1	<1		<1	<1		<1	<1		<1	<1	<1	<1		<1	<1		3			4
Y-91	<1																	<1			<1
ZN-65		<1				<1				<1	<1					<1		<1			<1
ZR-93	<1										<1	<1						<1			<1
ZR-95	<1			<1					<1	<1	<1		<1			<1		<1			<1
TOTAL	7	<1	<1	<1	<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	<1	21	<1	<1	37

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Argonne National Laboratory-West 1998 Detail Graphs

Argonne- National Laboratory-West (ANLW) Bar Graphs
of Annual Data by MonthINEEL-81

ARGONNE NATIONAL LABORATORY-WEST (ANLW) MONTHLY DETAILS CY-1998

ANLW CY 1998 AIRBORNE EMISSION

ANLW CY 1998 TSA STORAGE AREA WASTE

ANLW CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREAAANL

Central Facilities Area 1998 Detail Graphs

Central Facilities Area (CFA) Bar Graphs of Annual Data by Month.....INEEL-85

CENTRAL FACILITY AREA (CF) MONTHLY DETAILS CY-1998

CF CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREACFA

Idaho Nuclear Technology and Engineering Center (INTEC) 1998 Detail Graphs

Idaho Nuclear Technology and Engineering Center (INTEC)

Bar Graphs of Annual Data by Month.....INEEL-89

Idaho Nuclear
Technology &
Engineering Center 1998
Graphics

IDAHO NUCLEAR TECHNOLOGY and ENGINEERING CENTER (INTEC) MONTHLY DETAILS CY- 1998

INTEC CY 1998 AIRBORNE EMISSION

INTEC CY 1998 LIQUID EFFLUENT

INTEC CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREAINTEC

Decontamination and Decommissioning 1998 Detail Graphs

Decontamination and Decommissioning (D&D) Bar Graphs
of Annual Data by Month

INEEL-93

Decontamination and
Decommissioning 1998
Graphics

DECONTAMINATION AND DECOMMISSIONING MONTHLY DETAILS CY-1998

D+D CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREAD+D

Naval Reactor Facility 1998 Detail Graphs

Naval Reactor Facility (NRF) Bar Graphs of Annual Data by Month..... INEEL-97

NAVAL REACTORS FACILITY (NRF) MONTHLY DETAILS CY- 1998

NRF CY 1998 AIRBORNE EMISSION

NRF CY 1998 SHIPPED LOW LEVEL WASTE

Power Burst Facility 1998 Detail Graphs

Power Burst Facility (PBF) Bar Graphs of Annual Data by MonthINEEL-101

POWER BURST FACILITY (PBF) MONTHLY DETAILS CY- 1998

PBF CY 1998 AIRBORNE EMISSION

PBF CY 1998 SHIPPED LOW LEVEL WASTE

Special Manufacturing Capability 1998 Detail Graphs

Special Manufacturing Capability (SMC) Bar Graphs of
Annual Data by Month.....

INEEL-105

SPECIAL MANUFACTURING CAPABILITY (SMC) MONTHLY DETAILS CY- 1998

Test Area North 1998 Detail Graphs

Test Area North (TAN) Bar Graphs of Annual Data by Month.....INEEL-109

TEST AREA NORTH (TAN) MONTHLY DETAILS CY- 1998

TAN CY 1998 AIRBORNE EMISSION

TAN CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREATAN

Test Reactor Area 1998 Detail Graphs

Test Reactor Area (TRA) Bar Graphs of Annual Data by MonthINEEL-113

TEST REACTOR AREA (TRA) MONTHLY DETAILS CY-1998

TRA CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREATRA

Waste Area Groups 1998 Detail Graphs

Waste Area Group 1 Bar Graphs of Annual Data by Month
Waste Area Group 3 Bar Graphs of Annual Data by Month
Waste Area Group 7 Bar Graphs of Annual Data by Month

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INEEL-119

WAG1 AREA MONTHLY DETAILS CY-1998

WAG1 CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREWAG1

WAG3 AREA MONTHLY DETAILS CY-1998

WAG3 CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREWAG3

WAG7 AREA MONTHLY DETAILS

CY-1998

WAG7 CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREWAG3

Waste Experimental Reduction Facility 1998 Detail Graphs

Waste Experimental Reduction Facility (WERF) Bar Graphs
of Annual Data by Month.....INEEL-123

WASTE EXPERIMENTAL REDUCTION FACILITY (WERF) MONTHLY DETAILS CY- 1998

WERF CY 1998 AIRBORNE EMISSION

WERF CY 1998 RECEIVED/DISPOSED CONTAINERIZED WASTE

Graph: GAREAWER

Waste Reduction Operations Complex 1998 Detail Graphs

Waste Reduction Operations Complex (WROC) Bar Graphs
of Annual Data by Month.....

INEEL-127

WROC AREA MONTHLY DETAILS

CY-1998

WROC CY 1998 SHIPPED LOW LEVEL WASTE

Graph: GAREWROC

Engineered Release Points

Engineered Release Points to the Environment..... ERP-3

Table 1. Engineered release points to the environment.

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
Airborne	ANL-W/EBR-II, FCF	61-m glass-coated steel stack, 30 m ³ /s discharge capacity, continuously monitored.	ANL-764-001	Yes
	ANL-W/FASB	10-m stack, 6.64 m ³ /s discharge capacity, continuously monitored.	ANL-787-001	Yes
	ANL-W/FMF	11.1-m stack, 4.6 m ³ /s discharge capacity, continuously monitored.	ANL-704-008	Yes
	ANL-W/HFEF	28.6-m stack, 21.7 m ³ /s discharge capacity, continuously monitored.	ANL-785-018	Yes
	ANL-W/L&O	Two separate stacks-one stack is 15.2 m with 10.9 m ³ /s discharge capacity. The other stack is 11.3 m with 7.8 m ³ /s discharge capacity. Both stacks are continuously monitored.	ANL-752-004 (MAIN) ANL-752-005 (NDA)	Yes
	ANL-W/RLWTF	14.2-m stack, 1.7 m ³ /s discharge capacity, continuously monitored.	ANL-798-017	Yes
	ANL-W/SCMS	14.6-m stack, 4.7 m ³ /s discharge capacity, continuously monitored.	ANL-793-001	Yes
	ANL-W/SPF	6.9-m stack, 2.1 m ³ /s discharge capacity, continuously monitored. This stack is presently inactive.	ANL-799-010	No
	ANL-W/TREAT	42.7-m steel stack, 2.8 m ³ /s discharge capacity, continuously monitored.	ANL-720-007	Yes
	ANL-W/ZPPR	22.9-m steel stack, 2.3 m ³ /s discharge capacity, continuously monitored.	ANL-777-002	Yes
	ARA	9.1-m stack, 1.4 m ³ /s discharge capacity, continuously monitored. These stacks were capped in 1989. D&D removal scheduled for 1996.	ARA001	No
	CF/West	Two normal ventilation exhausts, respirator maintenance 0.6 m ³ /s flow, sampled weekly when operating. Facility placed on standby June 1, 1993.	Drying ovens CFA-617-030 CFA-617-031	No
	CF/North	Normal ventilation exhausts, laundry dryer, 6.1 m ³ /s flow, continuously sampled when operating.	CFA-617-010 CFA-617-011	No
	INTEC/FAST	50-m stack, 66.1 m ³ /s discharge capacity, continuously monitored and sampled for particulates only.	CPP-767-001	Yes
	INTEC/Main Stack	76.2-m stack, 84.95 m ³ /s discharge capacity, continuously monitored.	CPP-708-001	Yes
	INTEC/NWCF	22-m stack, 51.9 m ³ /s discharge capacity, continuously monitored and sampled.	CPP-659-033	Yes
	INTEC/RAL Stack	14.8-m stack, 8.5 m ³ /s discharge capacity, continuously monitored and sampled.	CPP-684-001	Yes

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
CTF (formerly LOF)		45.72-m stack, 7.8 m ³ /s discharge capacity, continuously monitored. This facility is not functioning and has no future plans to change status.	TAN-725-001	No
NRF/A1W		13.7-m stack, continuous monitoring when operated during rad work	NRF-617-002	Yes
		13.7-m stack, .47 m ³ /s discharge capacity, continuously monitored.	NRF-617-013	Yes
		13.7-m stack, 4.7 m ³ /s A-RC 4.7 m ³ /s, B-RC; these two share a stack, continuously monitored while operating.	NRF-617-020 NRF-617-021	Yes Yes
		12.2-m stack, 8.9 m ³ /s discharge capacity, continuously monitored while operating.	NRF-616-012	Yes
		9.14-m stack, 39.6 m ³ /s ELT, infrequent operation.	NRF-616-039	Yes
		17.1-m stack, 17.1 m ³ /s emergency RC, infrequent operation.	NRF-616A-002	Yes
		Multiple vent points treated as one source. Continuous ambient monitoring. Ventilation rate based on fugitive turnover from blowers on temporary containment systems	NRF-616-PCMA	Yes
NRF/A1W-RWDS		6.7-m stack, 283 m ³ /s RWDE, infrequent operation.	NRF-628-006	Yes
NRF/ECF		18 High bay roof vents, 20.4-m vents, 13900 m ³ /s continuously monitored.	NRF-618-024 through NRF-618-029 NRF-618-032 through NRF-618-043 NRF-618-HBRV	Yes
		In OracI all vents mapped as 31.1-m stack, 23 m ³ /s; Stack 1 continuously monitored.	NRF-618-099	Yes
		18-m stack, 12 m ³ /s; Stack 2 continuously monitored.	NRF-618-103	Yes
NRF/S1W		45-m stack, 2.85 m ³ /s, fan room	NRF-601-019C	Yes
		1.3 m ³ /s Chem stack shares the stack but continuously monitored separately.	NRF-601-019A	Yes
		16-m stack, 1 m ³ /s RC exhaust; infrequent operation, monitored while operating.	NRF-601-023	Yes
		6 High bay roof vents, no active radiological work, building breathing rates without any operating fans. Multiple vents combined as single source	NRF-601-HBRV	Yes

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
	NRF/S5G	26-m stack, 12.5 m ³ /s RAVE; continuously operating, continuously monitored.	NRF-633A-057	Yes
		6 High bay rood vents treated as one source. Continuous ambient monitoring. Building breathing rate without any operating fans.	NRF-633-HBRV	Yes
	NRF/MSC	Miscellaneous and fugitive sources, ground level.	NRF-MSC-MSC	Yes
	PBF	24.4-m stack, 2.8 m ³ /s discharge capacity, continuously monitored.	PER 620-016	Yes
	SMC/R&D Process	17.7-m stack, 23.6 m ³ /s discharge capacity, continuously monitored.	SMC-607-039	Yes
	SMC/MDF QC LAB	17.99-m stack, 7.79 m ³ /s discharge capacity, continuously monitored.	SMC-607-119	Yes
	SMC/LINE 2a	14.4-m stack, 18.12 m ³ /s discharge capacity, continuously monitored.	SMC-629-013	Yes
	SMC/LINE 2b	8.36-m stack, 3.12 m ³ /s discharge capacity, continuously monitored.	SMC-629-014	Yes
	SMC/LINE 2B	8.36-m stack, 3.12 m ³ /s discharge capacity, continuously monitored.	SMC-629-012	Yes
	SMC Process S6	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	SMC-679-027	Yes
	SMC Process S7	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	SMC-679-026	Yes
	SMC Process S8	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	SMC-679-025	Yes
	SMC Process S9	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	SMC-679-024	Yes
	SMC Process S10	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	SMC-679-023	Yes
	SMC Process S11	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	SMC-679-022	Yes
	SMC/Scrap Handling	16.97-m stack, 7.93 m ³ /s discharge capacity, continuously monitored.	SMC-679-020	Yes
	SMC/Liquid Reclaim	16.97-m stack, 7.93 m ³ /s discharge capacity, continuously monitored.	SMC-679-018	Yes
	SMC/PRF Stack S14	33.54-m stack, 0.94 m ³ /s discharge capacity, continuously monitored.	SMC-679-016	No
	TAN Decon	29.6-m stack, 24.9 m ³ /s discharge capacity, continuously monitored currently no emissions. Currently in process of deactivation.	TAN-607-136	No

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
	TAN/TSF	51.4-m stack, 7.9 m ³ /s discharge capacity, continuously monitored.	TAN-734-001	Yes
	TAN/PREPP	26.1-m stack, 3 m ³ /s discharge capacity, continuously monitored. Facility was never activated-currently being scheduled for decommissioning.	TAN-607-107	No
	TRA/ATR	76.2-m stack, 21.2 m ³ /s discharge capacity, continuously monitored.	TRA-770-001	Yes
	TRA/Chem Lab	29.6-m stack, 6.6 m ³ /s discharge capacity, continuously monitored.	TRA-604-035	Yes
	TRA/ETR	76.2-m stack, 9.4 m ³ /s discharge capacity, continuously monitored. As of March 1988, this stack is not monitored. No activity is discharged.	TRA-753-001	Yes
	TRA/Hot Cells	15.2-m stack, 1.6 m ³ /s discharge capacity, continuously monitored. Three stacks sampled as one.	TRA-632-030	Yes
	TRA/MTR	76.2-m stack, 6 m ³ /s discharge capacity, continuously monitored.	TRA-710-001	Yes
	TRA/661	8.43-m stack, 3.3 m ³ /s discharge capacity, not monitored.	TRA-661-008	Yes
	WERF/North	15-m stack, 8 m ³ /s discharge capacity, continuously monitored.	PER-755-001	Yes
	WERF/South	15-m stack, 9.4 m ³ /s discharge capacity, continuously monitored.	PER-756-001	Yes
	WERF/765	15.5-m stack, 4.7 m ³ /s discharge capacity, continuously monitored.	PER-765-001	Yes
	WMF/SWEPP	4.5-m stack, 1.7 m ³ /s discharge capacity, continuously monitored during active Drum Vent operation.	WMF-615-001	Yes
Liquid (injection well)	INTEC	181 m deep (42.7 m below water table), constantly monitored by radiation detector with a detection unit of 2×10^{-6} Ci/mL, flow approximately 170 x 10 ⁶ liters per month. (INEL discharges to the injection well have been terminated since 1986. This well was closed in November 1989.)		No
	PBF	33.5 m deep (105 m above water table), constantly monitored, flow intermittent with a maximum of 750 liters per minute (no longer in use as of August 1980; in June 1984, this well was completely filled with concrete).		No

Liquid (seepage ponds, leaching pits, cribs)	ANLW/EBR-II and L&O	Batch monitored pond approximately $1.2 \times 10^4 \text{ m}^2$ maximum depth of 4 m.		Yes
	ARA	Surface depression (approximately 1.3 acre), estimate flow 1.05×10^7 liters per year, continuously monitored. ARA completely shut down operations in September 1986, no further releases are being made to this release point except for drainage as a result of rain water runoff.		No
	CF	Sewage plant tile drain field, 610 x 61 m, average flow approximately 15×10^6 liters per month, continuously monitored.		Yes
	INTEC/Pond No. 1	Percolation pond, 412 x 480 x 16 ft. CPP 797 is the discharge point that is continuously monitored and sampled.		Yes
	INTEC/Pond No. 2	Percolation pond, 498 x 498 x 12 to 14 ft. CPP 797 is the discharge point that is continuously monitored and sampled.		Yes
	CTF (formerly LOF)	Continuously monitored pond approximately 76 x 152 x maximum 5.5 m deep.		Yes
	NRF	Continuously monitored leaching beds handling 95,000 liters per month (releases ended April 1979).		No
	TAN	Continuously monitored pond approximately 13 hectares in size.	N/A	Yes
Solid	TRA	Two ponds 40 x 73 m and one pond 76 x 122 m, average flow approximately 90×10^6 liters per month, prior to 1988. In 1988, average flow decreased to 4.7×10^6 liters per month. Ponds are continuously monitored. Removed from service August 1993.	N/A	No
	TRA	Evaporation pond. Two adjacent lined ponds measuring 70 x 140 m each. Double liner and leak detection system. All particulate activity remains in lined pond 3×10^6 liters per month. Continuously monitored. Zero release to soil column.		Yes
	All facilities	Disposal of radioactive solid waste accomplished at the INEEL Radioactive Waste Management Facility (WMF).	N/A	Yes
		Storage of transuranic radioactive solid waste accomplished at the INEEL WMF.	N/A	Yes
		Reduction of applicable radioactive solid waste volume accomplished at the INEEL WERF.	N/A	Yes