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Radioactive Waste Management Information for 1994 and Record-To-Date

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Radioactive Waste Management Information For 1994 And Record-To-Date

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Environmental Operations, Branch Support

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ABSTRACT

This document presents detailed data, bar graphs, and pie charts on volume, radioactivity, isotopic identity, origin, and decay status of radioactive waste for calendar year 1994. It also summarizes the radioactive waste data records compiled from 1952 to present for the Idaho National Engineering Laboratory (INEL). The data presented are from the INEL Radioactive Waste Management Information System.

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EXECUTIVE SUMMARY

This document, *Radioactive Waste Management Information for 1994 and Record-To-Date*, contains computerized radioactive waste data records from the Idaho National Engineering Laboratory (INEL). Data are compiled from information supplied by the U.S. Department of Energy (DOE) contractors. Data listed are on airborne and liquid radioactive effluents and solid radioactive waste that is stored, disposed, and sent to the INEL for reduction. Data are summarized for the years 1952 through 1993. Data are detailed for the calendar year 1994.

Airborne and liquid waste was released to the environment through engineered release points identified on Table 1 located 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.

Airborne releases of radioactivity for 1994 were 2,230 curies; noble gases accounted for 2,184 curies or 98% of the radioactivity. The curie amount compares to 2,719 curies in 1993 and 24,179 curies in 1992.

A total of $1.995\text{E}+09$ liters of liquid radioactive waste containing 50 curies was released to the environment at the INEL during 1994. Tritium accounted for 94% of the radioactivity. As a result of radioactive decay, 47 curies or 94% of the curies for identified radionuclides remained on January 1, 1995, and 26 curies or 52% will remain after 5 years. The radioactivity discharged as liquid waste in 1994 was 62% less than the activity discharged in 1993 and 73% less than the activity discharged in 1992.

During 1994, a total of $1,906\text{ m}^3$ of solid radioactive waste containing 49,524 curies was shipped to the Radioactive Waste Management Complex (RWMC) for disposal. This compares

to 852 m^3 with 429,655 curies disposed in 1993, and 844 m^3 with 143,951 curies in 1992. By January 1, 1995, the radionuclides identified in 1994 had decayed to 44,707 curies (90%), and in 5 years they will have decayed to 32,970 curies (67%).

The majority of the nuclides disposed in solid waste at RWMC in 1994 consisted of Ni-63, Co-60, and Fe-55. These nuclides accounted for 92% of total curies.

Two cubic meters containing 49 curies of TRA waste initially received in 1990 was moved to a new storage location on Intermediate-Level Transuranic Storage Facility (ILTSF). An error was made on the location date that allowed it to roll into the 1994 TRA ILTSF stored waste total. The error was corrected, but was too late to appear in the data roll-up for this report.

The Waste Calcining Facility did not operate in 1994.

The Waste Experimental Reduction Facility (WERF) received 769 m^3 and 1 curie of solid radioactive waste for size reduction in 1994. The waste received by WERF for reduction in 1994 compared to 446 m^3 and 2 curies in 1993 and 940 m^3 and 13 curies in 1992. Because of reevaluation of the shipments to WERF the 1991 and 1992 totals will be different.

In addition to the waste sent to WERF for volume reduction, $1,713\text{ m}^3$ containing 26 curies were sent off-site to Scientific Ecology Group. The ash was returned to RWMC for disposal.

Radioactive effluent discharges at the INEL in 1994 met all applicable DOE requirements (DOE 5400.5, 5820.2) and State of Idaho regulations and standards.

The impact of this waste on the environment, both onsite and offsite, is constantly monitored

by the INEL Site Environmental Surveillance Program. The results of this program for 1994 are published in the annual report, *The Idaho National Engineering Laboratory Site Environmental Report for Calendar Year 1994*, DOE-ID-12082(94), published July 1994.

The effect of radioactive decay reduces quantities of activity at varying rates among the radionuclides. The effect of decay on airborne,

liquid, and solid radioactive waste disposed on the INEL in 1994 is in *INEL 1994 Summaries* section. The decay summary data for the INEL for the period of 1952-1994 is found in the *Area Decay Summaries* section. Only curies of identified radionuclides have decayed. Although all radioactivity decays, decay schemes cannot be applied to the curies of unidentified radionuclides such as mixed fission or activation products.

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ACRONYMS AND ABBREVIATIONS

A1W	Large ship reactor at Naval Reactors Facility	HFEF-N	Hot Fuels Examination Facility-North
ALE	Argonne National Laboratory-East	HFEF-S	Hot Fuels Examination Facility-South
ANL	Argonne National Laboratory-West	ICPP	Idaho Chemical Processing Plant (also referred to as CPP)
ARA	Auxiliary Reactor Area	ILTSF	Intermediate-Level Transuranic Storage Facility
ATR	Advanced Test Reactor	INEL	Idaho National Engineering Laboratory
BCL	Battelle Columbus Laboratories	L&O	Lab and Office Building
BEN	Bendix—Grand Junction, Colorado	LOF	Loss-of-Fluid Test
BET	Bettis Atomic Power Laboratory	LOFT	Loss-of-Fluid Test
BNL	Brookhaven National Laboratory	MAP	Mixed Activation Products
B&W	Babcock & Wilcox	MDL	Monsanto Dayton Laboratory
CEG	Combustion Engineering General Atomics	MFP	Mixed Fission Products
CFA	Central Facilities Area	MRC	Monsanto Research Corporation Mound Laboratory
CG	Concentration Guide (also referred to as DCG)	MTR	Materials Test Reactor
CPP	Chemical Processing Plant (also referred to as ICPP)	MWSF	Mixed Waste Storage Facility
CTF	Containment Test Facility (LOFT became CTF on 10/01/86)	NRF	Naval Reactors Facility
CY	calendar year	NSA	North Storage Area
D&D	decontamination and decommissioning	NWCF	New Waste Calcining Facility
DCG	Derived Concentration Guide	OFF	offsite
DOE	U.S. Department of Energy	OTH	other
EBR-II	Experimental Breeder Reactor II	PBF	Power Burst Facility
ECF	Expended Core Facility	PER	Special Power Excursion Reactor Test (also referred to as SPERT)
EG&G	EG&G, Incorporated	PREPP	Process Reduction Experimental Pilot Plant
ETR	Engineering Test Reactor	R&D	research and development
FASB	Fuel Assembly and Storage Building	RAL	Radiation Analysis Laboratory
FAST	Fluorinel and Storage Facility	RC	Reactor Compartment (NRF only)
FCF	Fuel Cycle Facility	RESL/IL	Radiological and Environmental Sciences Laboratory/Idaho Operations
FMF	Fuel Manufacturing Facility		
JCH	J.C. Haynes/Wright Patterson Air Force Base		
HFEF	Hot Fuels Examination Facility		

RFO	Rocky Flats Office (EG&G Rocky Flats, Colorado)	SWEPP	Stored Waste Examination Pilot Plant
RLWTF	Radioactive Liquid Waste Treatment Facility	TAN	Test Area North
RWDS	Radioactive Waste Disposal System	TRA	Test Reactor Area
RWMC	Radioactive Waste Management Complex	TREAT	Transient Reactor Test Facility
RWMIS	Radioactive Waste Management Information System	TSA	Transuranic Storage Area
S1W	submarine prototype at NRF	TSF	Test Support Facility
S5G	submarine prototype at NRF	WCF	Waste Calcining Facility
SCND	Special Case Nondefense Waste	WER	Waste Experimental Reduction Facility (also referred to as WERF)
SDA	Subsurface Disposal Area	WERF	Waste Experimental Reduction Facility (also referred to as WER)
SEG	Scientific Ecology Group	WINCO	Westinghouse Idaho Nuclear Company
SL-1	Stationary Low Power Reactor No. 1	WMC	Waste Management Complex (also referred to as RWMC)
SMC	Specific Manufacturing Capability	WVRF	Waste Volume Reduction Facility
SPERT	Special Power Excursion Reactor Test (also referred to as PER)	ZPPR	Zero Power Plutonium Reactor
SPF	Sodium Process Facility		

CONVERSION FACTORS

<u>To Convert</u>	<u>Into</u>	<u>Multiply By</u>
Cubic yards	Cubic meters	0.7646
Cubic meters	Cubic feet	35.5140
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 1994 AND RECORD-TO-DATE

INTRODUCTION

This document summarizes radioactive waste data records for the Idaho National Engineering Laboratory (INEL) compiled since 1952, and provides detailed data for calendar year (CY) 1994. A computerized Radioactive Waste Management Information System (RWMIS) has been used at the INEL 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 has many statistical analysis features that can be applied to the data, and allows 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 on the INEL is tracked more accurately. It is now possible to pinpoint the exact location of a 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.

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

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

Graphics were added to the report in 1987 to improve the data presentation. In the *Decay Summaries* section, those areas having no identified nuclides, or only <1 curie of identified nuclides, are not presented with graphics. 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—Compactible 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 private industry for volume reduction.

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 RWMIS 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 INEL.

Annual and special RWMIS reports have been useful to various levels of management in appraising their radioactive waste programs. Annual reports provide a summary by type and producer of waste. Special reports include radioactive decay from time of disposal to specified future dates. The volume, weight, and curie content in all RWMIS 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 RWMIS. 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. INEL liquid releases flow to areas inaccessible to the general public. The calculated concentration of airborne releases as dispersed to the INEL 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 RWMIS 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 RWMIS provides readily available information that permits ongoing evaluation of INEL waste management activities, including compliance with DOE regulations and those of other Federal and State agencies. The RWMIS continues to be a valuable asset to the overall manage-

ment effort at the INEL and continues to alert the DOE Idaho Operations Office (DOE-ID) of trends and potential problem areas.

Reports Included in Document

Eight report categories are included in this document. A brief description of each are below.

INEL Record-to-Date Summary—This report summarizes the volume and curies of all effluents and solid waste on the INEL by CY for the period 1985 to 1994 and a cumulative total for 1952 to 1984.

INEL Record-to-Date Discharges and Solid Waste—These reports summarize the volume and curies of all discharges and solid waste on the INEL by discharge/waste type for each area generating waste by CY for the period 1985 to 1994 and a cumulative total for 1952 to 1984.

INEL Record-to-Date Decay Summaries—These reports summarize both identified and unidentified curies by waste type on the INEL by CY for the period 1985 to 1994 and a cumulative total for 1962 to 1984. The curie amount is adjusted to allow for radioactive decay through the last day of the current year.

Area Record-to-Date Decay Summaries—These reports summarize the identified and unidentified curies by area and waste type on the INEL by CY for the period 1985 to 1994 and a cumulative total for 1962 to 1984. The curie amount is adjusted to allow for radioactive decay through the last day of the current year and then 10 years later.

INEL 1994 Year-to-Date Summary—This report summarizes, by facility, the amounts of radioactivity generated at INEL facilities or at offsite facilities and shipped to the INEL. 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.

INEL Disposed Waste Decay Summary in Curies for 1994—This report summarizes the total curies of airborne, liquid, and solid waste on the INEL for the current year and then corrects the amount of the total curies for radioactive decay, by year, for 7 years.

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 INEL.

Area 1994 Graphics—These graphics include volume and curie monthly data for airborne, liquid, and solid waste generated by INEL areas and for non-INEL areas shipping solid waste to the INEL.

INEL Record-to-Date Summary

INEL Record-to-Date Summary	INEL-3
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SCHEDULE NO. P61PM022-E

INEL RECORD-TO-DATE SUMMARY

RUN DATE: 05/25/95

TYPE/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
AIRBORNE												
VOLUME	140664	9636	12289	12220	13388	13514	13450	12963	12715	13150	12856	266845
CURIES	13050065	77262	14518	254948	173935	22370	24459	63879	24179	2719	2230	13710563
LIQUID												
VOLUME	72243	2744	2529	2536	2357	1922	2642	2490	2799	2659	1995	96915
CURIES	73938	667	346	357	270	137	189	170	187	130	50	76441
SOLID DISPOSED												
VOLUME	191510	3140	3437	2969	2045	1364	1762	1272	844	852	1906	211102
CURIES	10199026	271435	95084	247521	149742	590066	207543	187568	143951	429655	49524	12571115
SOLID STORED												
VOLUME	57247	3376	3128	2217	1395	880	41	178		203	6	68670
CURIES	83252352	55521	55109	3400798	8609486	51118	4607	1603000	39741	1142363	72663	98286758
SOLID TO SEG FOR REDUCTION*												
VOLUME											1713	1713
CURIES											26	26
SOLID TO WERF FOR REDUCTION												
VOLUME	78	1275	2458	2529	2967	2663	3161	2029	940	446	769	19315
CURIES	<1	1	2	5	6	6	12	15	13	2	1	65

LIQUID VOLUME IN MILLIONS OF LITERS
 AIRBORNE VOLUME IN MILLIONS OF CUBIC METERS

ONE CUBIC METER EQUALS 35.31 CUBIC FEET.
 ONE MILLION LITERS EQUALS 264,180 GALLONS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
 * DOES NOT INCLUDE WASTE SHIPPED TO SEG FROM WERF

INEL-3

INEL Record-to-Date Summary CY 1994

INEL 1985-1994 SOLID DISPOSED WASTE VOLUME & CURIES

INEL Record-to-Date Summary CY 1994

INEL-5

1985-1994 SOLID STORED WASTE VOLUME & CURIES

□ VOLUME ■ CURIES

INEL 1985-1994 SOLID WASTE SENT TO WERF FOR VOLUME REDUCTION* VOLUME & CURIES

□ VOLUME ■ CURIES

*WERF began reducing waste in 1984

TRA/CPP INCINERABLE WASTE SENT TO PRIVATE INDUSTRY FOR REDUCTION*

□ VOLUME ■ CURIES

*1994 WAS THE FIRST YEAR PRIVATE INDUSTRY WAS USED DOESN'T INCLUDE WASTE SENT FROM WERF

INEL Record-to-Date Discharges and Solid Waste

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INEL RADIOACTIVE AIRBORNE WASTE DISCHARGES

RDN DATE: 05/24/95

RECORD-TO-DATE

INEL-9

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ANL												
VOLUME	32147	2445	2406	2532	2554	2540	2535	2542	2542	2522	2520	57286
CURIES	45525	916	932	889	618	686	716	551	739	1160	1154	53887
ARA												
VOLUME	386	47	47	47	32							560
CURIES	<1	<1	<1	<1	<1							<1
CFA												
VOLUME	820	140	117	77	59	58	58	58	58	34		1481
CURIES	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1
CPP												
VOLUME	40739	3332	3923	3911	3893	3794	3827	3916	3895	4244	4156	79632
CURIES	7524886	64279	10845	250918	170708	20002	20002	60043	20000	62	<1	8141745
CTF												
VOLUME			155	63								218
CURIES			<1									<1
LOF												
VOLUME	657	165										822
CURIES	31	8780										8810
NRF												
VOLUME	27521	2187	2722	1630	1745	2377	2151	1795	1654	1646	1329	46757
CURIES	35	<1	<1	<1	<1	<1	<1	<1	<1	1	2	41
PBF												
VOLUME	905	62	57	58	60	60	62	63	58	52	59	1495
CURIES	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PER												
VOLUME	**											**
CURIES	6											6
SMC												
VOLUME		8	1424	1962	3046	2812	3031	3122	3047	3141	3166	24758
CURIES		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TAN												
VOLUME	14983	173	332	660	645	632	492	191	182	191	197	18677
CURIES	53725	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	53725
TRA												
VOLUME	22506	1076	1089	1199	1190	1069	1130	1140	1130	1155	1190	33873
CURIES	5425861	3288	2741	3140	2609	1682	3741	3284	3439	1495	1074	5452352

INEL RADIOACTIVE AIRBORNE WASTE DISCHARGES

RUN DATE: 05/24/95

RECORD-TO-DATE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
WER												
VOLUME			16	72	161	156	164	137	135	155	239	1235
CURIES			<1	<1	<1	<1	<1	<1	<1		<1	<1
WMC												
VOLUME				9	4	15			14	10		52
CURIES				<1	<1	<1			<1	<1		<1
TOTAL												
VOLUME	140664	9636	12289	12220	13388	13514	13450	12963	12715	13150	12856	266845
CURIES	13050065	77262	14518	254948	173935	22370	24459	63879	24179	2719	2230	13710563

VOLUME IN MILLIONS OF CUBIC METERS

** NOT AVAILABLE

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-10

INEL Radioactive Airborne Waste Discharges Record-to-Date

INEL-11

ANL 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

CFA 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

ARA 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

CPP 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

INEL Radioactive Airborne Waste Discharges Record-to-Date

INEL-12

CTF 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

▨ VOLUME ■ CURIES

LOF 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

▨ VOLUME ■ CURIES

LOF RELEASED EFFLUENTS
FROM 78-85 - LFR 191

CTF RELEASED EFFLUENTS ONLY
IN 1986 AND 1987 - CTF 19191

NRF 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

▨ VOLUME ■ CURIES

NRF 191

INEL Radioactive Airborne Waste Discharges Record-to-Date

PBF 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

SMC 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

SMC BEGAN RELEASING EFFLUENTS
IN 1985 - SMCAR

TAN 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

TANR191

INEL Radioactive Airborne Waste Discharges Record-to-Date

TRA 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

WER 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

WMC 1985-1994 AIRBORNE
EFFLUENT VOLUME & CURIES

RECORD-TO-DATE[illegible]

INEL RADIOACTIVE LIQUID WASTE DISCHARGES*

RUN DATE: 05/24/95

RECORD-TO-DATE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
TOTAL												
VOLUME	72243	2744	2529	2536	2357	1922	2642	2490	2799	2659	1995	96915
CURIES	73936	667	346	357	270	137	189	170	187	130	50	76439

* VOLUME IN MILLION LITERS

**FOR THE YEARS 1962-70 THE SHORT-LIVED RADIOACTIVITY (LESS THAN 2-3 DAY HALF LIFE) WERE NOT REPORTED

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL Radioactive Liquid Waste Discharge Record-to-Date

INEL-17

ANL 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

ANL201

ARA 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

ARA REL. EFF. FROM 81-88, NO ACTIVITY
DET. IN 84, SHUTDOWN IN 8/88-ARL201

CFA 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

CFA201

INEL Radioactive Liquid Waste Discharge Record-to-Date

CPP 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES CTF 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES LOF 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

INEL Radioactive Liquid Waste Discharge Record-to-Date

INEL-19

NRF 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

NRF RELEASED LIQUID EFFLUENTS
ONLY Y 92

TAN 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

TAN DD NOT REPORT ANY
LIQUID IN 1994-TANR219

TRA 1985-1994 LIQUID
EFFLUENT VOLUME & CURIES

YEARS
TRR211

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/24/95

DISPOSED WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ALE												
VOLUME	3986	592	306	309	204							5398
CURIES	510	71	10	840	50							1481
ANL												
VOLUME	7265	121	135	109	473	172	65	30	56	77	211	8713
CURIES	1231127	126651	57382	204682	142614	463320	130511	82261	92896	87058	12301	2630803
ARA												
VOLUME	396	17	1	20							101	536
CURIES	4019	5	<1	<1							<1	4025
BEN												
VOLUME			<1									<1
CURIES			<1									<1
BNL												
VOLUME	5											5
CURIES	<1											<1
CEG												
VOLUME										22		22
CURIES										1967		1967
CFA												
VOLUME	2467	9	16	4	5	4	45			84	42	2675
CURIES	382	<1	<1	4	<1	<1	<1			<1	<1	385
CPP												
VOLUME	27757	807	948	1151	578	513	752	544	129	7	127	33314
CURIES	613701	112	214	218	192	115	211	24	2	<1	2	614791
CTF												
VOLUME			805	251	27					54		1138
CURIES			277	25	<1					<1		303
D+D												
VOLUME	2316	34	53	8	95	24	21	58	185	344	654	3791
CURIES	5692	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	5695
LOF												
VOLUME	24	49										73
CURIES	2	<1										3
NRF												
VOLUME	20194	347	270	171	111	134	419	270	159	146	222	22444
CURIES	4015925	141753	35930	29665	6732	126486	74087	102849	49795	42259	36900	4662383

INEL-20

INEL SOLID RECORD-TO-DATE SUMMARY

DISPOSED WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
PBF												
VOLUME	752	121	4	45	29						179	1129
CURIES	188	371	<1	11	3						<1	573
PER												
VOLUME	499			4		6		2				510
CURIES	24			<1		<1		<1				24
RFO												
VOLUME	73124											73124
CURIES	256010											256010
SMC												
VOLUME			43	7	53	21		24	50		34	232
CURIES			<1	<1	<1	<1		<1	<1		2	3
TAN												
VOLUME	8212	237	235	224	56	76	43	24	87	82	134	9409
CURIES	101443	17	17	359	1	67	2658	<1	347	216	<1	105124
TRA												
VOLUME	14543	613	387	219	158	62	37	72	179	28	196	16494
CURIES	3867721	2452	1253	11631	147	77	68	2430	909	298152	317	4185158
NER												
VOLUME		192	199	273	254	328	359	248		7	5	1866
CURIES		<1	<1	<1	<1	<1	6	3		<1	<1	10
WMC												
VOLUME	19779		35	177		23	22					20036
CURIES	60926		<1	83		<1	<1					61009
OTHER*												
VOLUME	1365											1365
CURIES	2434											2434
OFFSITE												
VOLUME	6501											6501
CURIES	37734											37734
SL-1												
VOLUME	2319											2319
CURIES	599											599

INEL-21

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/24/95

DISPOSED WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
TOTAL												
VOLUME#	191504	3140	3437	2969	2045	1364	1762	1272	844	852	1906	211095
CURIES#	10198432	271433	95084	247519	149740	590065	207541	187566	143948	429654	49524	12570507

VOLUME IN CUBIC METERS

*ML-1,GCRF,OMRE

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

THIS INFORMATION (18460 CUBIC METERS AND 60920 CURIES) IS REPORTED IN LUMP SUM UNDER WMC FOR 1960

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL Solid Record-to-Date Summary Disposed Waste

INEL-23

ALE 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

ALE HAS NOT DISPOSED WASTE
AT INEL SINCE 1989 - ALE391

ANL 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

ANL391

ARA 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

ARA391

BEN 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

BEN DISPOSED OF WASTE
ONLY IN 1986 - BEN391

INEL Solid Record-to-Date Summary Disposed Waste

INEL-24

CEG 1985-1994 SOLID DISPOSED
SOLID WASTE VOLUME & CURIES

CFA 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

CPP 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

CTF 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

INEL Solid Record-to-Date Summary Disposed Waste

D+D 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

LOF 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

NRF 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

PBF 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

INEL Solid Record-to-Date Summary Disposed Waste

INEL-26

PER 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

□ VOLUME ■ CURIES

PER DO NOT DISPOSE WASTE FROM
78-79, 81-85, 88, OR 92-94 - PER391

SMC 1985-1994 SOLID DISPOSED
SOLID WASTE VOLUME & CURIES

□ VOLUME ■ CURIES

SMCDB

TAN 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

□ VOLUME ■ CURIES

TANR391

INEL Solid Record-to-Date Summary Disposed Waste

TRA 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

WER 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

WMC 1985-1994 SOLID DISPOSED
WASTE VOLUME & CURIES

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/24/95

STORED WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ANL STORAGE												
VOLUME	88	<1	1	<1	<1	<1	1		<1	<1	<1	94
CURIES	9938547	15468	11897	16010	28962	44496	2774		39741	1165	72610	10171669
ILTSF												
VOLUME	44	<1		8	5		12			6	5	79
CURIES	1908	2258		1524	3913		120			60	53	9836
TSA												
VOLUME	54219	3375	3126	2091	1068	872	2	<1	<1			64754
CURIES	368058	37793	43211	24265	10612	6623	34	<1	<1			490596
WCF												
VOLUME	2896			118	322	7	26	177		197		3742
CURIES	72943968			3359000	8566000		1680	1603000		1141140		87614788
TOTAL												
VOLUME	57246	3376	3128	2217	1395	880	41	178	<1	203	6	68670
CURIES	83252480	55520	55108	3400798	8609486	51118	4607	1603000	39741	1142364	72663	98286886

VOLUME IN CUBIC METERS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-28

INEL Record-to-Date Summary Stored Waste

INEL-29

1985-1994 ANL STORAGE AREA
SOLID STORED WASTE VOLUME & CURIES

1985-1994 INTERMEDIATE LEVEL TRANSURANIC
STORAGE FACILITY
SOLID STORED WASTE VOLUME & CURIES

NO WASTE SENT TO ILTSF IN 1985, 1989, 1991 OR 1992

1985-1994 TRANSURANIC STORAGE AREA (TSA)
SOLID STORED WASTE VOLUME & CURIES

1985-1994 WASTE CALCINING FACILITY
SOLID STORED WASTE VOLUME & CURIES

OPP SENT NO CALCINED SOLIDS TO STORAGE IN 85, 86, 92, 94, 1989 VOLUME A RESULT OF NONRADIOACTIVE CALXINE RUN

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/24/95

ANL STORAGE WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ANL												
VOLUME	87	<1	1	<1	<1	<1	1		<1	<1	<1	93
CURIES	9938491	15468	11897	16010	28962	44496	2774		39741	1165	72610	10171613
TRA												
VOLUME	<1											<1
CURIES	<1											<1
TOTAL												
VOLUME	88	<1	1	<1	<1	<1	1		<1	<1	<1	94
CURIES	9938491	15468	11897	16010	28962	44496	2774		39741	1165	72610	10171613

VOLUME IN CUBIC METERS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

1985-1994 ANL STORAGE AREA SOLID
STORED WASTE VOLUME & CURIES

AWSTOR91

INEL-30

INEL SOLID RECORD-TO-DATE SUMMARY

ILTSF WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ALE												
VOLUME	38			7	3		12			6		66
CURIES	233			95	42		120			60		549
ANL												
VOLUME	3	<1		<1	1							5
CURIES	1524	2258		1429	3268							8479
BET												
VOLUME					<1							<1
CURIES					604							604
CPP												
VOLUME	<1											<1
CURIES	70											70
NRF												
VOLUME	3											3
CURIES	81											81
TRA												
VOLUME											5	5
CURIES											53	53
TOTAL												
VOLUME	44	<1		8	5		12			6	5	79
CURIES	1908	2258		1524	3913		120			60	53	9836

VOLUME IN CUBIC METERS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-31

INEL Solid Record-to-Date Summary ILTSF Waste

INEL-32

ALE 1985-1994 INTERMEDIATE LEVEL TRANSURANIC STORAGE FACILITY SOLID WASTE VOLUME & CURIES

ANL 1985-1994 INTERMEDIATE LEVEL TRANSURANIC STORAGE FACILITY SOLID WASTE VOLUME & CURIES

BET 1985-1994 INTERMEDIATE LEVEL TRANSURANIC STORAGE FACILITY SOLID WASTE VOLUME & CURIES

TRA 1985-1994 INTERMEDIATE LEVEL TRANSURANIC STORAGE FACILITY SOLID WASTE VOLUME & CURIES

INEL SOLID RECORD-TO-DATE SUMMARY

R0N DATE: 05/24/95

TSA WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ALE												
VOLUME	1410	20	36	5								1471
CURIES	7704	28	508	12								8253
ANL												
VOLUME	7	5	6	9	4	6	1	<1	<1			39
CURIES	105	192	125	212	59	126	23	<1	<1			842
ARA												
VOLUME	10											10
CURIES	21											21
BCL												
VOLUME	214											214
CURIES	180											180
BEN												
VOLUME			<1									<1
CURIES			19									19
BET												
VOLUME	429	<1		4								433
CURIES	895	62		26								984
CFA												
VOLUME	<1											<1
CURIES	<1											<1
CPP												
VOLUME	48											48
CURIES	1120											1120
CTF												
VOLUME				<1								<1
CURIES				1								1
D+D												
VOLUME							<1					<1
CURIES							3					3
MRC												
VOLUME	3542	76		126	87							3831
CURIES	67707	55		104	1527							69393
NRF												
VOLUME	3						<1					4
CURIES	331						8					339

INEL-33

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/24/95

TSA WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
RFO												
VOLUME	44144	3273	3084	1945	977	866						54290
CURIES	268623	37450	42309	23817	9026	6497						387722
TAN												
VOLUME	<1											<1
CURIES	16											16
TRA												
VOLUME	7	<1	<1	<1								8
CURIES	1633	7	250	90								1980
WMC												
VOLUME	4403			1								4404
CURIES	19736			3								19739
TOTAL												
VOLUME	54219	3375	3126	2091	1068	872	2	<1	<1			64755
CURIES	368073	37793	43211	24265	10612	6623	34	<1	<1			490611

VOLUME IN CUBIC METERS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-34

INEL Solid Record-to-Date Summary TSA Waste

INEL-35

ALE 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

ANL 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

BEN 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

BET 1985-1995 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

INEL Solid Record-to-Date Summary TSA Waste

CTF 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

CTF TSA

D&D 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES MRC 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

MRC TSA

NRF 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

NRF TSA

INEL Solid Record-to-Date Summary TSA Waste

INEL-37

RFO 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

RFOTSA

TRA 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

TRA TSA

WMC 1985-1994 TRANSURANIC STORAGE AREA
SOLID WASTE VOLUME & CURIES

WMC TSA

SCHEDULE NO. P61PM022-F

CPP HIGH-LEVEL LIQUID/SOLID WASTE STORAGE

RUN DATE: 05/24/95

RECORD-TO-DATE

TYPE/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
LIQUID WASTE TO LIQUID WASTE TANKS												
VOLUME	26594064											26594064
CURIES	378679040											378679040
LIQUID WASTE TO CALCINER												
VOLUME	46126432			856257	2275040		181700	1627800		1139800		52207024
CALCINED SOLIDS TO STORAGE												
VOLUME	2896			118	322	7	26	177		197		3742
CURIES	72944064			3359000	8566000		1680	1603000		1141140		87614880

LIQUID VOLUME IN LITERS
SOLID VOLUME IN CUBIC METERS

LIQUID WASTES WERE GENERATED BEGINNING IN 1953;
HOWEVER, THE WASTE CALCINATION PROCESS DID NOT BEGIN UNTIL 1963.

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-38

INEL High-Level Liquid/Solid Waste Storage Record-to-Date

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/24/95

WERF WASTE

INEL-40

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
ANL												
VOLUME		37	84	115	231	221	150	106	81			1026
CURIES		<1	<1	<1	<1	<1	<1	<1	<1			2
ARA												
VOLUME		<1	6		27							34
CURIES		<1	<1		<1							<1
CFA												
VOLUME	10	90	78	104	66	37	74	<1	3	20	91	574
CURIES	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
CPP												
VOLUME		245	898	1095	1005	1094	1439	892	77	55		6800
CURIES		<1	2	4	4	4	7	3	<1	<1		24
CTF												
VOLUME			91									91
CURIES			<1									<1
D+D												
VOLUME	57	3	342			2	4	103	5	53	115	685
CURIES	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1
LOF												
VOLUME		77										77
CURIES		<1										<1
NRF												
VOLUME		173	367	572	1119	674	1002	556	389	291	283	5427
CURIES		<1	<1	<1	2	2	4	7	2	2	1	21
PBF												
VOLUME			9	30	6	<1	12					58
CURIES			<1	<1	<1	<1	<1					<1
PER												
VOLUME		<1	7			16	3		1	26		53
CURIES		<1	<1			<1	<1		<1	<1		<1
SMC												
VOLUME			38	130	178	225	186	181			280	1218
CURIES			<1	<1	<1	<1	<1	<1			<1	<1
TAN												
VOLUME		308	278	192	92	104	57	37				1067
CURIES		<1	<1	<1	<1	<1	<1	<1				<1

INEL SOLID RECORD-TO-DATE SUMMARY

RON DATE: 05/24/95

WERF WASTE

AREA/YEAR	1952-1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	TOTAL
TRA												
VOLUME	11	340	257	286	244	290	227	147	384			2185
CURIES	<1	<1	<1	<1	<1	<1	<1	5	11			17
WMC												
VOLUME			2	4			6	6				19
CURIES			<1	<1			<1	<1				<1
TOTAL												
VOLUME	78	1275	2458	2529	2967	2663	3161	2029	940	446	769	19315
CURIES	<1	1	2	5	6	6	12	15	13	2	1	65

VOLUME IN CUBIC METERS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-41

INEL Solid Record-to-date Summary WERF Waste

INEL-42

ANL 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

ARA 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

CFA 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

CPP 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

INEL Solid Record-to-Date Summary WERF Waste

INEL-43

CTF 1985-1994 SOLID WASTE SENT TO WERF FOR VOLUME REDUCTION VOLUME & CURIES

D+D 1985-1994 SOLID WASTE SENT TO WERF FOR VOLUME REDUCTION VOLUME & CURIES

LOF 1985-1994 SOLID WASTE SENT TO WERF FOR VOLUME REDUCTION VOLUME & CURIES

NRF 1985-1994 SOLID WASTE SENT TO WERF FOR VOLUME REDUCTION VOLUME & CURIES

INEL Solid Record-to-Date Summary WERF Waste

INEL-44

PBF 1985-1994 SOLID WASTE SENT TO WERF
WASTE VOLUME & CURIES

PER 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

SMC 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

INEL Solid Record-to-Date Summary WERF Waste

TAN 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

TRA 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

WMC 1985-1994 SOLID WASTE SENT TO WERF
FOR VOLUME REDUCTION VOLUME & CURIES

INEL SOLID RECORD-TO-DATE SUMMARY

RUN DATE: 05/04/95

SCND WASTE

AREA/YEAR	1952-1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	TOTAL
B+W												
VOLUME					4							4
CURIES					46							46
JCH												
VOLUME						4						4
CURIES						27						27
MDL												
VOLUME						17						17
CURIES						491						491
TOTAL												
VOLUME					4	21						25
CURIES					46	518						564
VOLUME IN CUBIC METERS												

INEL-46

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
THIS IS A SUMMARY OF SCND WASTE NOT PREVIOUSLY REPORTED

INEL Record-to-Date SCND Summary CY 1994

INEL-47

B+W 1985-1994 SPECIAL CASE NON-DEFENSE WASTE
STORED AT THE INEL VOLUME & CURIES

JCH 1985-1994 SPECIAL CASE NON-DEFENSE WASTE
STORED AT THE INEL VOLUME & CURIES

MDL 1985-1994 SPECIAL CASE NON-DEFENSE WASTE
STORED AT THE INEL VOLUME & CURIES

INEL Record-to-Date Decay Summaries

INEL Airborne Waste Decay Data and Bar Graph	INEL-51
INEL Liquid Waste Decay Data and Bar Graph	INEL-52
INEL Solid Disposed Waste Decay Data and Bar Graph	INEL-53

 

INEL

AIRBORNE WASTE DECAY DATA

YEAR	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES		CURIES REMAINING		CURIES REMAINING
1962*	4336817	8714758	335284	8%	176148	4%
1985	77262	<1	35661	46%	18679	24%
1986	14518	<1	6241	43%	3270	23%
1987	254947	0	154632	61%	80996	32%
1988	173935	<1	111053	64%	58173	33%
1989	22370	<1	13643	61%	7144	32%
1990	24459	<1	14554	60%	7621	31%
1991	63879	0	47403	74%	24823	39%
1992	24179	0	17738	73%	9343	39%
1993	2719	0	183	7%	114	4%
1994	2230	0	49	2%	31	1%

* INCLUDES 1962 - 1984

DATA FOR 1962 - 1970 APPLIES TO DISCHARGES ONLY FROM CPP, TRA, AND ANL.
DATA AFTER 1970, APPLIES TO ALL INEL FACILITIES.

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL 1985-1994 AIRBORNE DECAY SUMMARY IN CURIES
DECAYED VALUE FOR IDENTIFIED NUCLIDES
ON 12/31/94

INEL

LIQUID WASTE DECAY DATA

YEAR	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES	CURIES REMAINING		CURIES REMAINING	
1962*	44636	29310	6024	13%	3465	8%
1985	667	<1	391	59%	223	33%
1986	346	<1	204	59%	116	34%
1987	357	0	227	63%	129	36%
1988	270	0	183	68%	104	39%
1989	137	0	94	69%	54	39%
1990	189	0	143	76%	82	43%
1991	170	0	138	81%	78	46%
1992	187	0	159	85%	90	48%
1993	130	0	115	88%	65	50%
1994	50	0	47	93%	26	52%

* INCLUDES 1962 - 1984

DATA FOR 1962 - 1970 APPLIES TO DISCHARGES ONLY FROM CPP, TRA, AND NRF.
DATA AFTER 1970, APPLIES TO ALL INEL FACILITIES.

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL 1985-1994 LIQUID DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED
NUCLIDES ON 12/31/94

SOLID DISPOSED WASTE DECAY DATA

YEAR	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	5018106	5180915	369225	7%	256921	5%
1985	271119	316	87319	32%	66477	25%
1986	94919	165	25809	27%	17940	19%
1987	241678	5841	32963	14%	18116	7%
1988	149587	155	10686	7%	4888	3%
1989	590003	64	262216	44%	116829	20%
1990	207530	13	94788	46%	48342	23%
1991	187565	4	85760	46%	44087	24%
1992	143949	0	96265	67%	39828	28%
1993	429654	0	370086	86%	196148	46%
1994	49524	0	44720	90%	25453	51%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL 1985-1994 SOLID DISPOSED DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED
NUCLIDES ON 12/31/94

 

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ARGONNE NATIONAL LABORATORY - EAST

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	186	324	18	9%	8	4%
1985	52	19	31	60%	21	40%
1986	4	6	3	69%	2	54%
1987	837	3	549	66%	312	37%
1988	50	<1	35	71%	21	42%
TOTALS	1128	353	635	56%	364	32%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

ALE 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY		DECAYED VALUE FOR		DECAYED VALUE FOR	
	AMOUNT (CURIES) IDENTIFIED NUCLIDES	AT RELEASE UNIDENTIFIED NUCLIDES	IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
1962*	32865	12662	617	2%	324	<1%
1985	916	0	5	<1%	2	<1%
1986	932	<1	5	<1%	3	<1%
1987	889	0	6	<1%	3	<1%
1988	618	<1	2	<1%	1	<1%
1989	686	<1	1	<1%	<1	<1%
1990	716	<1	2	<1%	1	<1%
1991	551	0	1	<1%	<1	<1%
1992	739	0	167	23%	142	19%
1993	1160	0	125	11%	81	7%
1994	1154	0	46	4%	30	3%
TOTALS	41227	12662	977	2%	588	1%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

ANL 1985-1994 AIRBORNE DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

[Hatched] RELEASED
 [Solid Black] DECAYED ON 12/31/94
 [Cross-hatched] DECAYED ON 12/31/04

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	2	19	<1	45%	<1	27%
1985	<1	0	<1	59%	<1	34%
1986	<1	0	<1	62%	<1	35%
1987	<1	0	<1	66%	<1	37%
1988	<1	0	<1	70%	<1	40%
1989	<1	0	<1	72%	<1	41%
1990	<1	0	<1	78%	<1	44%
1991	<1	0	<1	82%	<1	47%
1992	<1	0	<1	88%	<1	50%
1993	<1	0	<1	93%	<1	53%
1994	<1	0	<1	97%	<1	55%
TOTALS	4	19	2	59%	1	34%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	1180806	50408	12381	1%	4245	<1%
1985	126476	177	6954	5%	1876	1%
1986	57325	57	4597	8%	1295	2%
1987	204634	50	12006	6%	3185	2%
1988	142488	128	6346	4%	1640	1%
1989	463273	48	170992	37%	45757	10%
1990	130505	7	43168	33%	11462	9%
1991	82261	<1	31782	39%	8435	10%
1992	92898	0	60935	66%	16082	17%
1993	87058	0	59254	68%	14794	17%
1994	12301	0	9817	80%	2417	20%
TOTALS	2580024	50875	418230	16%	111187	4%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

ANL 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	<1	<1	<1	<1%	<1	<1%
1985	<1	<1	<1	4%	<1	3%
1986	<1	<1	<1	64%	<1	51%
1987	<1	0	<1	1%	<1	<1%
1988	<1	0	<1	3%	<1	2%
TOTALS	<1	<1	<1	<1%	<1	<1%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AUXILIARY REACTOR AREA

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	<1	<1	0	0%	0	0%
1986	<1	0	<1	12%	<1	9%
1987	<1	0	0	0%	0	0%
1988	<1	0	0	0%	0	0%
TOTALS	<1	<1	<1	<1%	<1	<1%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AUXILIARY REACTOR AREA

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	541	3479	166	31%	153	28%
1985	4	<1	2	46%	2	36%
1986	<1	<1	<1	47%	<1	36%
1987	0	<1	0	0%	0	0%
1994	<1	0	<1	100%	<1	79%
TOTALS	545	3480	168	31%	155	28%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

ARA 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

SOLID DISPOSED WASTE DECAY DATA

RADIOACTIVITY AMOUNT (CURIES)		IDENTIFIED NUCLIDES		IDENTIFIED NUCLIDES		IDENTIFIED NUCLIDES	
DECAYED VALUE FOR THROUGH 12/31/94		CURIES REMAINING		DECAYED VALUE FOR THROUGH 12/31/94		CURIES REMAINING	
ACCUMULATED IN		1986		<1		<1	
TOTALS		0		<1		68%	
* INCLUDES 1962 - 1984		0		<1		68%	

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	<1	0	<1	51%	<1	29%
TOTALS	<1	0	<1	51%	<1	29%
* INCLUDES 1962 - 1984						

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CENTRAL FACILITIES

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	<1	<1	<1	33%	<1	21%
1985	<1	<1	<1	39%	<1	22%
1986	<1	<1	<1	27%	<1	17%
1987	<1	0	<1	9%	<1	4%
1988	<1	0	<1	16%	<1	7%
1989	<1	0	<1	18%	<1	7%
1990	<1	0	<1	15%	<1	6%
1991	<1	0	<1	13%	<1	7%
1992	<1	0	<1	5%	<1	2%
1993	<1	0	<1	2%	<1	2%
TOTALS	<1	<1	<1	19%	<1	10%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CENTRAL FACILITIES

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	24	20	12	50%	7	28%
1985	4	0	3	59%	1	33%
1986	3	0	2	62%	<1	35%
1987	2	0	1	65%	<1	37%
1988	1	0	<1	69%	<1	39%
1989	2	0	2	73%	<1	42%
1990	2	0	2	78%	1	44%
1991	3	0	2	82%	1	47%
1992	3	0	3	86%	2	49%
1993	<1	0	<1	92%	<1	52%
TOTALS	45	20	27	60%	15	34%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CFA 1985-1994 LIQUID DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

INEL-67

CENTRAL FACILITIES

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	186	196	36	20%	17	9%
1985	<1	<1	<1	99%	<1	98%
1986	0	<1	0	0%	0	0%
1987	0	4	0	0%	0	0%
1988	0	<1	0	0%	0	0%
1989	0	<1	0	0%	0	0%
1990	<1	0	<1	71%	<1	38%
1993	<1	0	<1	93%	<1	63%
1994	<1	0	<1	98%	<1	74%
TOTALS	186	200	37	20%	17	9%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

COMBUSTION ENGINEERING - G A

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1993	1967	0	1788	91%	1017	52%
TOTALS	1967	0	1788	91%	1017	52%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CHEMICAL PROCESSING PLANT

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY		DECAYED VALUE FOR		DECAYED VALUE FOR	
	AMOUNT (CURIES) IDENTIFIED NUCLIDES	AT RELEASE UNIDENTIFIED NUCLIDES	IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
1962*	1239930	6285051	334660	27%	175820	14%
1985	64279	0	35651	55%	18674	29%
1986	10845	0	6236	58%	3267	30%
1987	250918	0	154624	62%	80992	32%
1988	170708	0	111050	65%	58171	34%
1989	20002	0	13641	68%	7143	36%
1990	20002	0	14552	73%	7620	38%
1991	60043	0	47401	79%	24822	41%
1992	20000	0	17571	88%	9201	46%
1993	62	0	57	92%	32	52%
1994	<1	0	<1	95%	<1	65%
TOTALS	1856785	6285051	735444	40%	385742	21%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CPP 1985-1994 AIRBORNE DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

INEL-70

CHEMICAL PROCESSING PLANT

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	19816	1484	3775	19%	2160	11%
1985	393	0	236	60%	134	34%
1986	251	0	153	61%	87	35%
1987	216	0	141	65%	80	37%
1988	89	0	62	69%	35	39%
1989	<1	0	<1	41%	<1	31%
1990	<1	0	<1	74%	<1	45%
1991	2	0	2	81%	1	46%
1992	<1	0	<1	85%	<1	49%
1993	<1	0	<1	48%	<1	34%
1994	<1	0	<1	93%	<1	87%
TOTALS	20768	1484	4369	21%	2499	12%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CPP 1985-1994 LIQUID DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

INEL-71

CHEMICAL PROCESSING PLANT

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	489264	124624	28474	6%	15881	3%
1985	97	15	16	17%	12	13%
1986	184	30	31	17%	24	13%
1987	185	33	59	32%	44	24%
1988	176	15	32	18%	24	14%
1989	102	13	20	19%	14	14%
1990	211	0	42	20%	30	14%
1991	24	0	5	22%	3	15%
1992	2	0	<1	24%	<1	15%
1993	<1	0	<1	32%	<1	16%
1994	2	0	2	99%	2	76%
TOTALS	490248	124731	28682	6%	16035	3%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CPP 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1986	<1	0	<1	56%	<1	29%
1987	0	0	0	0%	0	0%
TOTALS	<1	0	<1	56%	<1	29%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CONTAINMENT TEST FACILITY

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES	CURIES REMAINING		CURIES REMAINING	
1986	<1	0	<1	82%	<1	65%
1987	0	0	0	0%	0	0%
TOTALS	<1	0	<1	82%	<1	65%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-74

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1986	242	35	59	24%	21	9%
1987	20	6	7	35%	2	10%
1988	0	<1	0	0%	0	0%
1993	<1	0	<1	86%	<1	58%
TOTALS	262	41	66	25%	23	9%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

CTF 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

DECONTAMINATION AND DECOMMISSIONING

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	5632	60	2755	49%	1700	30%
1985	<1	<1	<1	29%	<1	8%
1986	<1	<1	<1	100%	<1	100%
1987	<1	<1	<1	67%	<1	51%
1988	<1	0	<1	40%	<1	11%
1989	<1	0	<1	69%	<1	42%
1990	<1	0	<1	86%	<1	67%
1991	<1	0	<1	90%	<1	68%
1992	<1	0	<1	95%	<1	75%
1993	2	0	2	93%	1	62%
1994	<1	0	<1	99%	<1	74%
TOTALS	5635	60	2757	49%	1701	30%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

D+D 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	31	<1	<1	<1%	<1	<1%
1985	8780	0	6	<1%	3	<1%
TOTALS	8810	<1	6	<1%	3	<1%
* INCLUDES 1962 - 1984						

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

LOF 1985-1994 AIRBORNE DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

INEL-77

LOSS-OF-FLUID TEST FACILITY

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES	CURIES REMAINING		CURIES REMAINING	
1962*	<1	<1	<1	24%	<1	15%
1985	<1	<1	<1	52%	<1	37%
TOTALS	<1	<1	<1	37%	<1	25%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	2	<1	<1	12%	<1	3%
1985	<1	<1	<1	25%	<1	15%
TOTALS	2	<1	<1	13%	<1	4%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

NAVAL REACTORS FACILITY

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	35	<1	5	13%	3	9%
1985	<1	<1	<1	94%	<1	91%
1986	<1	0	<1	87%	<1	83%
1987	<1	0	<1	84%	<1	72%
1988	<1	0	<1	79%	<1	57%
1989	<1	0	<1	95%	<1	89%
1990	<1	0	<1	94%	<1	86%
1991	<1	0	<1	85%	<1	56%
1992	<1	0	<1	43%	<1	35%
1993	1	0	<1	75%	<1	72%
1994	2	0	1	84%	<1	59%
TOTALS	41	<1	9	23%	7	17%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY		DECAYED VALUE FOR		DECAYED VALUE FOR	
	AMOUNT (CURIES) AT RELEASE	UNIDENTIFIED	IDENTIFIED NUCLIDES	THROUGH 12/31/94	IDENTIFIED NUCLIDES	THROUGH 12/31/04
	NUCLIDES	NUCLIDES		CURIES REMAINING		CURIES REMAINING
1962*	208	142	28	13%	17	8%
1992	<1	0	<1	85%	<1	48%
TOTALS	208	142	28	13%	17	8%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

NAVAL REACTORS FACILITY

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	920638	3095387	260501	28%	203922	22%
1985	141754	0	79930	56%	64288	45%
1986	35930	0	21039	59%	16553	46%
1987	29665	0	17989	61%	13859	47%
1988	6732	0	4271	63%	3202	48%
1989	126487	<1	91150	72%	71015	56%
1990	74089	0	49207	66%	34972	47%
1991	102852	0	53242	52%	35449	34%
1992	49795	0	34796	70%	23457	47%
1993	42260	0	35643	84%	24130	57%
1994	36901	0	34680	94%	22982	62%
TOTALS	1567097	3095387	682446	44%	513829	33%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

NRF 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	<1	<1	<1	27%	<1	22%
1985	<1	<1	<1	30%	<1	24%
1986	<1	<1	<1	47%	<1	37%
1987	<1	0	0	0%	0	0%
1988	<1	0	<1	5%	<1	4%
1989	<1	0	<1	49%	<1	39%
1990	<1	0	<1	4%	<1	3%
1991	<1	0	<1	45%	<1	36%
1992	<1	0	<1	28%	<1	22%
1993	<1	0	<1	<1%	<1	<1%
1994	<1	0	<1	8%	<1	6%
TOTALS	<1	<1	<1	27%	<1	22%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-83

POWER BURST FACILITY

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY		DECAYED VALUE FOR		DECAYED VALUE FOR	
	AMOUNT (CURIES) IDENTIFIED NUCLIDES	AT RELEASE UNIDENTIFIED NUCLIDES	IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
1962*	<1	<1	<1	60%	<1	38%
TOTALS	<1	<1	<1	48%	<1	38%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	<1	188	<1	94%	<1	90%
1985	367	4	256	70%	202	55%
1986	0	<1	0	0%	0	0%
1987	8	3	3	39%	<1	10%
1988	<1	2	<1	41%	<1	11%
1994	<1	0	<1	99%	<1	79%
TOTALS	376	197	260	69%	203	54%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

PBF 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	4870	251140	4790	98%	4784	98%
TOTALS	4870	251140	4790	98%	4784	98%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1985	<1	0	<1	43%	<1	43%
1986	<1	0	<1	43%	<1	43%
1987	<1	0	<1	22%	<1	22%
1988	<1	0	<1	43%	<1	43%
1989	<1	0	<1	36%	<1	36%
1990	<1	0	<1	36%	<1	36%
1991	<1	0	<1	36%	<1	36%
1992	<1	0	<1	36%	<1	36%
1993	<1	0	<1	36%	<1	36%
1994	<1	0	<1	37%	<1	36%
TOTALS	<1	0	<1	30%	<1	30%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SPECIAL MANUFACTURING CAPABILITY

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1986	<1	0	<1	100%	<1	100%
1987	<1	0	<1	100%	<1	100%
1988	<1	0	<1	100%	<1	100%
1989	<1	0	<1	100%	<1	100%
1991	<1	0	<1	100%	<1	100%
1992	<1	0	<1	100%	<1	100%
1994	2	0	2	100%	2	100%
TOTALS	3	0	3	100%	3	100%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-88

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	0	6	0	0%	0	0%
TOTALS	0	6	0	%	0	%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES	CURIES REMAINING		CURIES REMAINING	
1962*	<1	155	<1	28%	<1	22%
TOTALS	<1	155	<1	28%	<1	22%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	5	19	<1	9%	<1	6%
1987	<1	<1	<1	100%	<1	100%
1989	0	<1	0	0%	0	0%
1991	<1	0	<1	76%	<1	46%
TOTALS	5	19	<1	9%	<1	6%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-91

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES	CURIES REMAINING		CURIES REMAINING	
1962*	<1	53724	<1	45%	<1	24%
1985	<1	<1	<1	41%	<1	33%
1986	<1	<1	<1	9%	<1	7%
1987	<1	0	<1	52%	<1	31%
1988	<1	0	<1	31%	<1	25%
1989	<1	0	<1	44%	<1	35%
1990	<1	0	<1	18%	<1	14%
1991	<1	0	<1	17%	<1	14%
1992	<1	0	<1	<1%	<1	<1%
1993	<1	0	<1	31%	<1	22%
1994	<1	0	<1	24%	<1	19%
TOTALS	<1	53724	<1	45%	<1	24%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	19	39	6	30%	3	17%
1985	<1	<1	<1	56%	<1	32%
1986	<1	0	<1	60%	<1	35%
1987	<1	0	<1	<1%	<1	<1%
1988	<1	0	<1	9%	<1	5%
1989	<1	0	<1	66%	<1	38%
1990	<1	0	<1	64%	<1	37%
1991	<1	0	<1	80%	<1	46%
1992	<1	0	<1	83%	<1	47%
1993	2	0	2	92%	<1	52%
TOTALS	22	39	8	36%	5	21%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-93

TEST AREA NORTH

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	18690	82755	6754	36%	6435	34%
1985	0	17	0	0%	0	0%
1986	1	16	<1	83%	<1	66%
1987	11	347	7	60%	4	36%
1988	<1	1	<1	46%	<1	18%
1989	66	<1	55	82%	43	65%
1990	2658	0	2368	89%	1878	71%
1991	<1	0	<1	88%	<1	65%
1992	347	0	318	92%	248	72%
1993	216	0	197	91%	155	72%
1994	<1	0	<1	99%	<1	82%
TOTALS	21989	83137	9699	44%	8763	40%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

TAN 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

INEL-94

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY		DECAYED VALUE FOR IDENTIFIED NUCLIDES		DECAYED VALUE FOR IDENTIFIED NUCLIDES	
	AMOUNT (CURIES) IDENTIFIED NUCLIDES	AT RELEASE UNIDENTIFIED NUCLIDES	THROUGH 12/31/94 CURIES REMAINING		THROUGH 12/31/04 CURIES REMAINING	
1962*	3063961	2363315	2	<1%	<1	<1%
1985	3288	<1	<1	<1%	<1	<1%
1986	2741	<1	<1	<1%	<1	<1%
1987	3140	0	2	<1%	<1	<1%
1988	2609	0	<1	<1%	<1	<1%
1989	1682	0	<1	<1%	<1	<1%
1990	3741	0	<1	<1%	<1	<1%
1991	3284	0	<1	<1%	<1	<1%
1992	3439	0	<1	<1%	<1	<1%
1993	1495	0	<1	<1%	<1	<1%
1994	1074	0	1	<1%	<1	<1%
TOTALS	3090447	2363315	5	<1%	2	<1%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

TRA 1985-1994 AIRBORNE DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

▨ RELEASED ■ DECAYED ON 12/31/94 □ DECAYED ON 12/31/04

TEST REACTOR AREA

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	24567	27451	2202	9%	1276	5%
1985	269	0	153	57%	87	32%
1986	91	<1	48	53%	27	30%
1987	139	0	85	61%	48	35%
1988	179	0	120	67%	68	38%
1989	134	0	93	69%	53	39%
1990	185	0	141	76%	80	43%
1991	165	0	134	81%	76	46%
1992	184	0	155	85%	88	48%
1993	128	0	113	88%	64	50%
1994	50	0	47	93%	26	52%
TOTALS	26092	27451	3291	13%	1895	7%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

TRA 1985-1994 LIQUID DECAY SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

TEST REACTOR AREA

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	2397318	1470655	53347	2%	19774	<1%
1985	2369	83	129	5%	77	3%
1986	1233	20	81	7%	44	4%
1987	6237	5394	2262	36%	628	10%
1988	139	8	1	<1%	<1	<1%
1989	75	2	1	2%	<1	<1%
1990	68	<1	4	6%	1	2%
1991	2430	0	731	30%	199	8%
1992	909	0	216	24%	41	4%
1993	298152	0	273203	92%	156051	52%
1994	317	0	219	69%	49	16%
TOTALS	2709243	1476160	330196	12%	176866	7%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

TRA 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

▨ DISPOSED ■ DECAYED ON 12/31/94 ▤ DECAYED ON 12/31/04

WASTE EXPERIMENTAL REDUCTION FACILITY

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1986	<1	<1	<1	26%	<1	21%
1987	<1	0	<1	32%	<1	25%
1988	<1	0	<1	31%	<1	24%
1989	<1	0	<1	6%	<1	5%
1990	<1	0	<1	9%	<1	7%
1991	<1	0	<1	38%	<1	28%
1992	<1	0	<1	7%	<1	6%
1993	0	0	0	49%	0	38%
1994	<1	0	<1	95%	<1	75%
TOTALS	<1	<1	<1	30%	<1	23%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

WASTE EXPERIMENTAL REDUCTION FACILITY

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1985	0	<1	0	0%	0	0%
1986	0	<1	0	0%	0	0%
1987	0	<1	0	0%	0	0%
1988	0	<1	0	0%	0	0%
1989	0	<1	0	0%	0	0%
1990	0	6	0	0%	0	0%
1991	0	3	0	0%	0	0%
1993	<1	0	<1	87%	<1	51%
1994	<1	0	<1	100%	<1	83%
TOTALS	<1	10	<1	99%	<1	81%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-99

WASTE MANAGEMENT COMPLEX

AIRBORNE EFFLUENT DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES	CURIES REMAINING		CURIES REMAINING	
1987	<1	0	<1	3%	<1	2%
1988	<1	0	0	0%	0	0%
1989	<1	0	0	0%	0	0%
1992	<1	0	0	0%	0	0%
1993	<1	0	0	0%	0	0%
TOTALS	<1	0	<1	<1%	<1	<1%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

WASTE MANAGEMENT COMPLEX

LIQUID EFFLUENT DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES) AT RELEASE		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	0	0	0	0%	0	0%
TOTALS	0	0	0	%	0	%
* INCLUDES 1962 - 1984						

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-101

WASTE MANAGEMENT COMPLEX

SOLID DISPOSED WASTE DECAY DATA

ACCUMULATED IN	RADIOACTIVITY AMOUNT (CURIES)		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/94 CURIES REMAINING		DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH 12/31/04 CURIES REMAINING	
	IDENTIFIED NUCLIDES	UNIDENTIFIED NUCLIDES				
1962*	6	60920	4	67%	3	53%
1986	<1	0	<1	99%	<1	97%
1987	83	<1	82	99%	81	97%
1989	<1	0	<1	100%	<1	100%
1990	<1	0	<1	100%	<1	100%
TOTALS	89	60920	86	97%	84	94%

* INCLUDES 1962 - 1984

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

WMC 1985-1994 SOLID DISPOSED WASTE SUMMARY
IN CURIES, DECAYED VALUE FOR IDENTIFIED NUCLIDES

INEL 1994 Year-to-Date Summary

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INEL WASTE MANAGEMENT INFORMATION SYSTEM

INEL YEAR TO DATE SUMMARY
FOR JANUARY THROUGH DECEMBER 1994

PG 1 RPT. 2

FACILITY	AIRBORNE		LIQUID		SOLID	
	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)	VOLUME (LITERS)	RADIO- ACTIVITY (CURIES)	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)
DISPOSED WASTES						
ANL	2.520E+09	1.154E+03	5.482E+06	4.643E-02	2.109E+02	1.230E+04
ARA					1.014E+02	1.115E-01
CFA					4.193E+01	1.905E-04
CPP	4.156E+09	2.923E-03	1.964E+09	5.757E-03	1.272E+02	2.463E+00
D+D					6.581E+02	1.438E-01
IRC					6.056E-02	4.186E-07
NRF	1.329E+09	1.589E+00			2.241E+02	3.690E+04
PBF	5.902E+07	5.428E-07			1.792E+02	6.839E-02
PER					4.058E+00	3.259E-03
SMC	3.166E+09	1.673E-05			3.413E+01	1.989E+00
TAN	1.966E+08	2.874E-06			1.340E+02	7.054E-02
TRA	1.190E+09	1.074E+03	2.533E+07	5.016E+01	1.983E+02	3.170E+02
WER*	2.393E+08	1.292E-07			5.242E+00	1.630E-01
DISPOSED WASTES SUBTOTAL	1.286E+10	2.230E+03	1.995E+09	5.022E+01	1.919E+03	4.952E+04

* SOLID VALUES ARE FOR WASTE DISPOSED AT RMC AND ARE END PRODUCTS OF WERF REDUCTION PROCESSES.

INEL-105

IDAHO OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/26/95

INEL YEAR TO DATE SUMMARY
FOR JANUARY THROUGH DECEMBER 1994

PG 2 RPT. 2

FACILITY	AIRBORNE		LIQUID		SOLID	
	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)	VOLUME (LITERS)	RADIO- ACTIVITY (CURIES)	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)
STORED WASTES						
ANL STORAGE AREA						
ANL					5.000E-01	7.261E+04
	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.000E-01	7.261E+04
ILTSF WASTE FROM:						
TRA					5.177E+00	5.313E+01
	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.177E+00	5.313E+01
STORED WASTES SUBTOTAL			0.000E+00	0.000E+00	5.677E+00	7.266E+04

INEL-106

U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

INEL YEAR TO DATE SUMMARY
FOR JANUARY THROUGH DECEMBER 1994

PG 3 RPT. 2

FACILITY	AIRBORNE		LIQUID		SOLID	
	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)	VOLUME (LITERS)	RADIO- ACTIVITY (CURIES)	VOLUME (CU. METERS)	RADIO- ACTIVITY (CURIES)
WASTES TO BE PROCESSED AT WERF FROM:						
CFA					9.140E+01	2.650E-03
D+D					1.146E+02	2.714E-03
NRF					2.832E+02	1.357E+00
SMC					2.802E+02	6.060E-03

WERF WASTES SUBTOTAL	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.695E+02	1.369E+00

INEL-107

INEL Year-to-Date Summary CY 1994

INEL AIRBORNE EFFLUENT

AREAS NOT LISTED HAVE VALUES <1% OF THE TOTAL

INEL LIQUID EFFLUENT

AREAS NOT LISTED HAVE VALUES <1% OF THE TOTAL

INEL SOLID WASTE VOLUME (Cubic Meters) DISPOSED AT RWMC AND SENT FOR REDUCTION EFFORTS

AREAS NOT LISTED HAVE VALUES <1% OF THE TOTAL

INEL Year-to-Date Summary CY 1994

INEL-109

1994 INEL ACCUMULATED YEAR-TO-DATE
DISPOSED SOLID WASTE AT THE RWMC

1994 ACCUMULATED YEAR-TO-DATE SOLID
TRANSURANIC WASTE VOLUME AT THE RWMC

1994 INEL ACCUMULATED YEAR-TO-DATE
SOLID LOW LEVEL WASTE

INEL Disposed Waste Decay Summary in Curies for 1994

INEL Disposed Waste Decay Summary in Curies for 1994 INEL-113

SCHEDULE NO. P61PM021-G

INEL

RUN DATE: 06/02/95

DISPOSED WASTE DECAY SUMMARY IN Curies FOR 1994

	TOTAL IDENTIFIED NUCLIDES AT TIME OF DISPOSAL	TOTAL UNIDENTIFIED NUCLIDES AT TIME OF DISPOSAL	----- DECAYED VALUE FOR IDENTIFIED NUCLIDES THROUGH -----						
			01/01/95	01/01/96	01/01/97	01/01/98	01/01/99	01/01/00	01/01/05
AIRBORNE	2230	0	49	46	44	42	40	38	31
LIQUID	50	0	47	44	41	39	37	35	26
SOLID	49524	0	44707	40660	37549	35047	32970	31215	25451

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL-113

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

Airborne Nuclide Summaries in Curies, 1994	INEL-117
Liquid Nuclide Summary in Curies, 1994	INEL-119
Disposed Solid Waste Nuclide Summary in Curies, 1994	INEL-120
ILTS Area Nuclide Summary in Curies, 1994	INEL-122
ANL Storage Area Nuclide Summary in Curies, 1994	INEL-123
WERF Processed Nuclide Summary in Curies, 1994	INEL-124

U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

AIRBORNE
NUCLIDE SUMMARY IN Curies
FOR JANUARY THROUGH DECEMBER 1994

PG 1

INEL-117

NUCLIDE IDENT	ANL	CPP	NRF	PBF	SMC	TAN	TRA	WER	TOTAL
AR-41	17		<1				1,009		1,026
BA-139							<1		<1
BA-140	<1						<1		<1
C-14			<1						<1
CO-57		<1							<1
CO-58							<1		<1
CO-60		<1					<1		<1
CR-51							<1		<1
CS-134		<1					<1		<1
CS-137		<1		<1		<1	<1	<1	<1
CS-138	<1						<1		<1
CS-139	<1								<1
CS-140	9								9
EU-152							<1		<1
EU-154		<1					<1		<1
GROSS-BET-GAM	<1								<1
GROSS-ALPHA	<1			<1		0	<1		<1
GROSS-BETA			<1	<1		<1	<1		<1
H-3	33		<1						33
HF-181							<1		<1
HG-203							1		1
I-131			<1				<1		<1
I-132							<1		<1
I-133							<1		<1
I-134							<1		<1
I-135							<1		<1
K-40		<1							<1
KR-85	5		<1						6
KR-85M	52						4		56
KR-87	68						8		77
KR-88	192						10		202
KR-89	<1								<1
KR-90	<1								<1
LA-140	<1						<1		<1
MN-54		<1					<1		<1
MN-56							<1		<1
MO-99							<1		<1
NA-22							<1		<1
NA-24							<1		<1
PA-234					<1				<1
PU-TOT		<1							<1
PU-238		<1							<1
RB-88	<1						1		1
RB-89	<1						<1		<1
RB-90	<1								<1
RE-188							<1		<1
RU-106		<1							<1

IDAHO OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 05/01/95

AIRBORNE
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1994

PG 2

INEL-118

NUCLIDE IDENT	ANL	CPP	NRF	PBF	SMC	TAN	TRA	WER	TOTAL
SB-125		<1							<1
SR-90		<1				<1	<1	<1	<1
SR-91							<1		<1
SR-92							<1		<1
TC-99M							<1		<1
TH-234					<1				<1
TL-208		<1							<1
TOTAL-PU		<1							<1
U-234					<1				<1
U-238					<1				<1
W-187							<1		<1
XE-133	419						4		423
XE-135	269						17		286
XE-135M	18						3		21
XE-137	<1								<1
XE-138	62						16		78
XE-139	<1								<1
XE-140	9								9
Y-90						<1	<1	<1	<1
Y-91M							<1		<1
Y-92							<1		<1
ZN-65							<1		<1
TOTAL	1,154	<1	2	<1	<1	<1	1,074	<1	2,230

U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

LIQUID
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1994

PG 1

NUCLIDE IDENT	ANL	CPP	TRA	TOTAL
CE-144			<1	<1
CO-60		<1	<1	<1
CR-51			2	2
CS-137	<1	<1	<1	<1
GROSS-BETA			<1	<1
H-3	<1		47	47
HF-181			<1	<1
MN-54			<1	<1
NA-24			<1	<1
PU-238		<1		<1
SB-125		<1		<1
SR-89			<1	<1
SR-90		<1	<1	<1
TOTAL-U		<1		<1
U-234		<1		<1
U-235		<1		<1
U-238		<1		<1
Y-90			<1	<1
ZN-65			<1	<1
TOTAL				
	<1	<1	50	50

INEL-119

IDAHO OPERATIONS OFFICE
 U.S. DEPARTMENT OF ENERGY
 INEL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 06/01/95

 DISPOSED SOLID WASTE
 NUCLIDE SUMMARY IN CURIES
 FOR JANUARY THROUGH DECEMBER 1994

PG 1

INEL-120

NUCLIDE IDENT	ANL	ARA	CFA	CPP	D+D	IRC	NRF	PBF	PER	SMC	TAN	TRA	WER	TOTAL
AG-108M					<1						<1			<1
AG-110												<1		<1
AG-110M							<1				<1		<1	<1
AM-241	<1		<1				<1				<1	<1	<1	<1
BA-137M							<1						<1	<1
BA-140							<1							<1
C-14							1					<1	<1	1
CE-141	<1											<1		<1
CE-144	<1		<1				<1					<1	<1	<1
CM-242													<1	<1
CM-244			<1								<1		<1	<1
CO-57													<1	<1
CO-58	460		<1				9					<1		470
CO-60	10,148		<1	<1	<1		7,416		<1		<1	172	<1	17,737
CR-51	1						<1					33		34
CS-134	<1		<1						<1		<1	<1	<1	<1
CS-137	1	<1	<1	2	<1		<1	<1	<1		<1	2	<1	5
EU-152			<1	<1	<1		<1				<1	<1	<1	<1
EU-154	<1		<1	<1			<1		<1		<1	<1	<1	<1
EU-155	<1		<1				<1				<1	<1	<1	<1
FE-55							5,790					28	<1	5,818
FE-59	2						<1					<1		2
H-3	<1						<1					<1		<1
HF-181							<1					<1		<1
I-129	<1						<1							<1
I-131												<1		<1
IR-192												<1		<1
K-40									<1		<1			<1
KR-85							<1							<1
LA-140												<1		<1
MN-54	1,682		<1				<1		<1		<1	3	<1	1,685
MO-99												<1		<1
NA-22	<1								<1					<1
NB-94							<1					<1		<1
NB-95	<1		<1				38					<1		38
NI-59							169					<1		169
NI-63							22,190					<1	<1	22,190
NP-237	<1		<1											<1
PA-234						<1							<1	<1
PA-234M													<1	<1
PB-212					<1									<1
PM-147							<1							<1
PR-144							<1						<1	<1
PU-238	<1		<1	<1			<1				<1	<1	<1	<1
PU-239	<1		<1	<1		<1	<1				<1	<1	<1	<1
PU-240	<1													<1
PU-241							<1							<1

IDAHO OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 06/01/95

DISPOSED SOLID WASTE
NUCLIDE SUMMARY IN Curies
FOR JANUARY THROUGH DECEMBER 1994

PG 2

NUCLIDE IDENT	ANL	ARA	CFA	CPP	D+D	IRC	NRF	PBF	PER	SMC	TAN	TRA	WER	TOTAL
RH-106			<1										<1	<1
RU-103	<1													<1
RU-106	<1		<1				<1					<1	<1	<1
SB-124							<1					<1		<1
SB-125	<1		<1	<1			427		<1		<1	<1	<1	427
SC-46												34		34
SE-75												<1		<1
SN-113							<1							<1
SN-119M							840							840
SR-89												<1		<1
SR-90	3		<1	<1	<1		<1				<1	2	<1	7
TA-182	<1						<1							<1
TC-99							<1							<1
TH-228			<1		<1	<1								<1
TH-230			<1		<1						<1			<1
TH-231													<1	<1
TH-232					<1	<1							<1	<1
TH-234						<1					<1		<1	<1
U-234	<1		<1		<1	<1					<1		<1	<1
U-235	<1		<1	<1	<1	<1					<1		<1	<1
U-236						<1					<1			<1
U-238	<1		<1		<1	<1				2	<1		<1	2
Y-90	3						<1						<1	3
ZN-65												41	<1	41
ZR-95	<1			<1			17				<1	<1		17
TOTAL														
	12,301	<1	<1	2	<1	<1	36,901	<1	<1	2	<1	317	<1	49,524

INEL-121

IDAHO OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 05/01/95

INTERMEDIATE LEVEL TRANSURANIC STORAGE AREA
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1994

PG 1

NUCLIDE IDENT	TRA	TOTAL
AM-241	23	23
CM-242	<1	<1
CM-244	<1	<1
CO-60	<1	<1
CR-51	<1	<1
CS-134	<1	<1
CS-137	<1	<1
EU-152	<1	<1
EU-154	<1	<1
EU-155	<1	<1
H-3	<1	<1
MN-54	<1	<1
PU-238	26	26
PU-239	<1	<1
SR-89	<1	<1
SR-90	2	2
U-233	<1	<1
U-234	<1	<1
ZN-65	<1	<1
TOTAL	53	53

INEL-122

U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

ANL STORAGE AREA
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1994

PG 1

NUCLIDE IDENT	ANL	TOTAL
AM-241	<1	<1
CE-144	<1	<1
CO-57	<1	<1
CO-58	3,960	3,960
CO-60	58,299	58,299
CR-51	622	622
CS-134	<1	<1
CS-137	<1	<1
EU-155	<1	<1
FE-59	71	71
MN-54	9,658	9,658
PU-239	<1	<1
SB-125	<1	<1
SR-85	<1	<1
SR-90	<1	<1
U-235	<1	<1
U-238	<1	<1
Y-90	<1	<1
TOTAL	72,610	72,610

INEL-123

IDAHO OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 05/01/95

WERF PROCESSED
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1994

PG 1

INEL-124

NUCLIDE IDENT	CFA	D+D	NRF	SMC	TOTAL
AG-110M			<1		<1
AM-241			<1		<1
BA-137M			<1		<1
BA-140			<1		<1
C-14			<1		<1
CE-144	<1		<1		<1
CM-242			<1		<1
CO-57			<1		<1
CO-58			<1		<1
CO-60	<1	<1	<1		<1
CR-51			<1		<1
CS-134			<1		<1
CS-137	<1	<1	<1		<1
EU-152			<1		<1
EU-154			<1		<1
EU-155			<1		<1
FE-55			<1		<1
FE-59			<1		<1
GD-153			<1		<1
H-3			<1		<1
HF-175			<1		<1
HF-181			<1		<1
I-129			<1		<1
KR-85			<1		<1
MN-54			<1		<1
MO-99			<1		<1
NB-94			<1		<1
NB-95			<1		<1
NI-59			<1		<1
NI-63			<1		<1
PM-147			<1		<1
PR-144			<1		<1
PU-238			<1		<1
PU-239			<1		<1
PU-241			<1		<1
RH-106			<1		<1
RU-106			<1		<1
SB-124			<1		<1
SB-125			<1		<1
SM-151			<1		<1
SN-113			<1		<1
SR-90	<1	<1	<1		<1
TA-182			<1		<1
TC-99			<1		<1
U-238	<1			<1	<1
Y-90			<1		<1
ZR-95			<1		<1

U.S. DEPARTMENT OF ENERGY
INEL WASTE MANAGEMENT INFORMATION SYSTEM

WERF PROCESSED
NUCLIDE SUMMARY IN CURIES
FOR JANUARY THROUGH DECEMBER 1994

PG 2

NUCLIDE IDENT	CFA	D+D	NRF	SMC	TOTAL
TOTAL	<1	<1	1	<1	1

INEL-125

Argonne National Laboratory-West 1994 Detail Data

Argonne National Laboratory-West (ANL) Bar Graphs
of Annual Data by Month INEL-129

Argonne National Laboratory-West (ANL) Monthly Details - CY 1994

ANL CY 1994 SHIPPED LOW LEVEL WASTE

ANL CY 1994 ANL STORAGE AREA WASTE

Central Facilities Area 1994 Detail Data

Central Facilities Area (CFA) Bar Graphs of Annual Data by Month INEL-133

Central Facility Area (CFA) Monthly Details - CY 1994

CFA CY 1994 SHIPPED LOW LEVEL WASTE

Chemical Processing Plant 1994 Detail Data

Chemical Processing Plant (CPP) Bar Graphs of Annual Data by Month INEL-137

Chemical Processing Plant (CPP) Monthly Details - CY 1994

INEL-137

CPP CY 1994 AIRBORNE EFFLUENT

CPP CY 1994 LIQUID EFFLUENT

CPP CY 1994 SHIPPED LOW LEVEL WASTE

CPP CY 1994 INCINERABLE WASTE SHIPPED TO PRIVATE INDUSTRY FOR REDUCTION

Decontamination and Decommissioning 1994 Detail Data

Decontamination and Decommissioning (D&D) Bar Graphs
of Annual Data by Month INEL-141

 

Decontamination and Decommissioning (D&D) Monthly Details - CY 1994

Naval Reactor Facility 1994 Detail Data

Naval Reactor Facility (NRF) Bar Graphs of Annual Data by Month INEL-145

Naval Reactors Facility (NRF) Monthly Details - CY 1994

Power Burst Facility 1994 Detail Data

Power Burst Facility (PBF) Bar Graphs of Annual Data by Month INEL-149

 

Power Burst Facility (PBF) Monthly Details - CY 1994

Special Manufacturing Capability 1994 Detail Data

Special Manufacturing Capability (SMC) Bar Graphs of
Annual Data by Month INEL-153

1994 Detail Data

Special Manufacturing Capability (SMC) Monthly Details - CY 1994

Test Area North 1994 Detail Data

Test Area North (TAN) Bar Graphs of Annual Data by Month INEL-157

 

Test Area North (TAN) Monthly Details - CY 1994

INEL-157

Test Reactor Area 1994 Detail Data

Test Reactor Area (TRA) Bar Graphs of Annual Data by Month INEL-161

Test Reactor Area (TRA) Monthly Details - CY 1994

TRA CY 1994 SHIPPED LOW LEVEL WASTE

Test Reactor Area (TRA) Monthly Details - CY 1994

INEL-162

Waste Experimental Reduction Facility 1994 Detail Data

Waste Experimental Reduction Facility (WER) Bar Graphs
of Annual Data by Month INEL-165

 

Waste Experimental Reduction Facility (WER) Monthly Details - CY 1994

INEL-165

Engineered Release Points

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/EBR-II, FCF	61-m glass-coated steel stack, 30 m ³ /s discharge capacity, continuously monitored.	ANL-764-001	Yes
	ANL/FASB	10-m stack, 6.64 m ³ /s discharge capacity, continuously monitored.	ANL-787-001	Yes
	ANL/FMF	11.1-m stack, 4.6 m ³ /s discharge capacity, continuously monitored.	ANL-704-008	Yes
	ANL/HFEF	28.6-m stack, 21.7 m ³ /s discharge capacity, continuously monitored.	ANL-785-018	Yes
	ANL/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/RLWTF	14.2-m stack, 1.7 m ³ /s discharge capacity, continuously monitored.	ANL-798-017	Yes
	ANL/SCMS	14.6-m stack, 4.7 m ³ /s discharge capacity, continuously monitored.	ANL-793-001	Yes
	ANL/SPF	6.9-m stack, 2.1 m ³ /s discharge capacity, continuously monitored. This stack is presently inactive.	ANL-799-010	No
	ANL/TREAT	42.7-m steel stack, 2.8 m ³ /s discharge capacity, continuously monitored.	ANL-720-007	Yes
	ANL/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
	CFA/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
	CFA/North	Normal ventilation exhausts, laundry dryer, 6.1 m ³ /s flow, continuously sampled when operating.	CFA-617-010 CFA-617-011	No
	CPP/FAST	50-m stack, 66.1 m ³ /s discharge capacity, continuously monitored and sampled for particulates only.	CPP-767-001	Yes
	CPP/Main Stack	76.2-m stack, 84.95 m ³ /s discharge capacity, continuously monitored.	CPP-708-001	Yes

Table 1. (continued.)

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
	CPP/NWCF	22-m stack, 51.9 m ³ /s discharge capacity, continuously monitored and sampled.	CPP-659-033	Yes
	CPP/RAL Stack	14.8-m stack, 8.5 m ³ /s discharge capacity, continuously monitored and sampled.	CPP-684-001	Yes
	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, .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
	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	Yes
		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
	NRF/S5G	26-m stack, 12.5 m ³ /s RAVE; continuously operating, continuously monitored.	NRF-633A-057	Yes

Table 1. (continued.)

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
	NRF/MSD	Miscellaneous and fugitive sources, ground level.		Yes
	PBF	24.4-m stack, 2.8 m ³ /s discharge capacity, continuously monitored.	PER 620 Vent 016	Yes
	SMC/R&D Process	17.7-m stack, 23.6 m ³ /s discharge capacity, continuously monitored.	TAN-607-039	Yes
	SMC/MDF QC LAB	17.99-m stack, 7.79 m ³ /s discharge capacity, continuously monitored.	TAN-607-119	Yes
	SMC/LINE 2a	14.4-m stack, 18.12 m ³ /s discharge capacity, continuously monitored.	TAN-629-013	Yes
	SMC/LINE 2b	8.36-m stack, 3.12 m ³ /s discharge capacity, continuously monitored.	TAN-629-014	Yes
	SMC/LINE 2B	8.36-m stack, 3.12 m ³ /s discharge capacity, continuously monitored.	TAN-629-012	Yes
	SMC/S. Process S6	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	TAN-679-027	Yes
	SMC/S. Process S7	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	TAN-679-026	Yes
	SMC/S. Process S8	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	TAN-679-025	Yes
	SMC/S. Process S9	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	TAN-679-024	Yes
	SMC/S. Process S10	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	TAN-679-023	Yes
	SMC/S. Process S11	16.97-m stack, 7.08 m ³ /s discharge capacity, continuously monitored.	TAN-679-022	Yes
	SMC/Scrap Handling	16.97-m stack, 7.93 m ³ /s discharge capacity, continuously monitored.	TAN-681-020	Yes
	SMC/Liquid Reclaim	16.97-m stack, 7.93 m ³ /s discharge capacity, continuously monitored.	TAN-681-018	Yes
	SMC/PRF Stack S14	33.54-m stack, 0.94 m ³ /s discharge capacity, continuously monitored.	TAN-681-012	Yes
	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
	TAN/TSF	51.4-m stack, 7.9 m ³ /s discharge capacity, continuously monitored.	TAN-734-001	Yes

Table 1. (continued.)

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
	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
	WER/North	15-m stack, 8 m ³ /s discharge capacity, continuously monitored.	PER-755-001	Yes
	WER/South	15-m stack, 9.4 m ³ /s discharge capacity, continuously monitored.	PER-756-001	Yes
	WER/765	15.5-m stack, 4.7 m ³ /s discharge capacity, continuously monitored.	PER-765-001	Yes
	WMC/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)	CPP	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 170×10^6 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

Table 1. (continued.)

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
Liquid (seepage ponds, leaching pits, cribs)	ANL/EBR-II and L&O	Batch monitored pond approximately 1.2×10^4 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
	CFA	Sewage plant tile drain field, 610 x 61 m, average flow approximately 15×10^6 liters per month, continuously monitored.		Yes
	CPP/Pond No. 1	Percolation pond, 412 ft x 480 ft x 16 ft. CPP 797 is the discharge point that is continuously monitored and sampled.		Yes
	CPP/Pond No. 2	Percolation pond, 498 ft x 498 ft 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
	TRA	Two ponds 40 x 73 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 m 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

Table 1. (continued.)

Type of Discharge	Area/Location	Type of Description of Discharge Surface	Air Emission Inventory Stack No.	Active (Yes/No)
Solid	All facilities	Disposal of radioactive solid waste accomplished at the INEL Radioactive Waste Management Complex (RWMC).	N/A	Yes
		Storage of transuranic radioactive solid waste accomplished at the INEL RWMC.	N/A	Yes
		Reduction of applicable radioactive solid waste volume accomplished at the INEL WERF.	N/A	Yes
		Storage of calcinated solids accomplished at CPP.	N/A	Yes
		Storage of sodium-contaminated waste generated by ANL accomplished at ANL.	N/A	Yes
		Storage of mixed waste accomplished at Mixed Waste Storage Facility (MWSF).	N/A	Yes