(2 1-86) mod 9/21/94 OAK RIDGE Y-12 PLANT INFORMATION CONTROL FORM #3140

DOCUMENT DESCRIPTION (Completed By Requesting Division)

Document No.	Author's Telephone No.	Acct. No.	Date of Request
Y/TS-93/Pt. 4/DEL REV.	6-0263	2366-0003	9/22/94

Unclassified Title: Y-12 PLANT RADIOACTIVE EFFLUENT REPORT FOR CY 1987 (U) MARCH 14, 1988

Author(s) C. W KIMBROUGH

TYPE: ☐ Formal Report ☐ Informal Report ☐ Progress/Status Report ☐ Co-Op Report ☐ Thesis/Term Paper

☐ Oral Presentation (identify meeting, sponsor, location, date): _____

☐ Journal Article (Identify Journal): _____

☑ Other (Specify): TO BE PROVIDED TO CHEMRISK FOR HSA

Document will be published in proceedings ☑ No ☐ Yes

Document will be distributed at meeting ☑ No ☐ Yes

Document has patent or invention significance ☑ No ☐ Yes (Identify) _____

Document has been previously released ☑ No ☐ Yes (Reference) _____

DIVISION REVIEW AND APPROVAL (Completed By Requesting Division)

TECHNICAL CLASSIFICATION REVIEW (Divisional Classification Representative)

Title(s): UNC Abstract: NA

DOCUMENT: Level UNC Category NA

Signature 9/21/94 Date

DOCUMENT REQUEST APPROVED (Division or Department)

Signature Date

Signature Date

THE REMAINDER OF THIS FORM TO BE COMPLETED BY THE TECHNICAL INFORMATION OFFICE

DISTRIBUTION

☐ Internal Distribution

☐ External Distribution

TID-4500 Category _____ or _____ Copies to OSTI

ANNOUNCED IN: ERA Atomindex (Available from NTIS)

M-3679 Category _____

ANNOUNCE IN: ☐ AWDR (Available from OSTI) ☐ ANCR

Distribution:	UCN-7721B	DOE F-1332.15	Document
	Y-12 Central Files	Y-12 RC	Y-12 RC
TIO File			
H.L. FELLERS			
R.M. KEYSER			
L.L. McCAULEY			
S.W. WILEY			

Distribution Remarks: Cleared for Public Release (ChemRisk)

APPROVAL AND RELEASE

Date Received	Date Initiated
	9-22-94

☑ CLASSIFICATIONS:

Title(s): Unclassified Abstract —

DOCUMENT:

Level Unclassified Category —

Weapons Data — Sigma —

L.L. Porter ADD 9/23/94

Y-12 Classification Office Date

☐ _____ Editor Date

☑ _____ Patent Office 9/23/94 Date

☐ _____ Other Date

☐ _____ Other Date

APPROVED FOR: ☐ Declassification ☐ Release subject to use of the following admonitory markings and conditions:

☐ Disclaimer ☐ Copyright ☐ Patent Caution ☐ Other

M. L. Bost 9/23/94

Technical Information Office Date

Conditions/Remarks:

[redacted]

CONFIDENTIAL

[redacted] Y/TS-93/Pt 4/DEL REV

RECORD

Y-12

OAK RIDGE
Y-12
PLANT

MARTIN MARIETTA

Y-12 PLANT RADIOACTIVE EFFLUENT REPORT FOR CY 1987 (U)

#3140

MARCH 14, 1988

Compiled by C. W. Kimbrough
Health, Safety, Environment,
and Accountability Division

Authorized Derivative Classifier
Y-12 HSA/TOA Coordinator — Date 9/21/94

APPROVED FOR PUBLIC RELEASE
Technical Information Office — Date 9/23/94

Authorized Derivative Declassifier
Y-12 Classification Specialist — Date 9/23/94

This material has been reviewed by the Y-12 Classification office and has been determined to be UNCLASSIFIED.

Derivative Classifier: [redacted]
L. L. McCauley, Manager
Remedial Actions Program

OPERATED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

RESTRICTED DATA
This document contains Restricted Data as defined in the Atomic Energy Act of 1954. Unauthorized disclosure subject to Administrative and Criminal Sanctions.

CONFIDENTIAL

CONFIDENTIAL

March 14, 1988

[redacted]
Y/TS-93/Pt. 4/DEL REV

Y-12 PLANT RADIOACTIVE EFFLUENT REPORT FOR CY 1987 (U)

C. W. Kimbrough
Health, Safety, Environment, and
Accountability Division

Distribution:

C. W. Kimbrough
R. J. Spence, DOE-ORO (2)
Y-12 Central Files - RC

CONFIDENTIAL

~~CONFIDENTIAL~~

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter completion

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 — To (YY MM DD): 20 25

Security Class/ Amended Data Designation: 26 / 27

	13	14 19	20 25	26 / 27
	A	870101	871231	C

Prepared By: I. V. Darling

Date: 3/14/88 — Area Code: 615 — Phone: 574-1593

Approved By: T. R. Butz

Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System:
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code: 77 — Storage/Disposal Facility Name Code: 79 80

DO NOT WRITE IN THIS SPACE

Include Other Information-Detailed comments on the following lines of Section 1

2	0	8
2	0	9
2	1	0
2	1	1
2	1	2
2	1	3
2	1	4
2	1	5
2	1	6
2	1	7
2	1	8

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

101	Start-up Date: YY MM DD	Termination Date: YY MM DD	41	Discharge/Effl. Point Gross Volume	49	UNITS 50	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51 63	Section "0" Report Control Codes 64 78	DO NOT WRITE IN THIS SPACE
3	28	33 35 40	+	3.16 E +09		F			

F-Cubic Feet, K-Gallons, L-Litres; M-Cubic Metres, P-Pounds

101	Nuclide Description: 27 40	Amount or Concentration: 41 46		49	Units: 50	51	Brief Comments: 52 80
4	U-234	+ 0.00	E	00	C	U	Assay Range depleted to enriched
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
5	Disper. Factor	+ .	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

2

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (5-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op. Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Iden.
2	3	4	5	6	7-9	10-12
Ø		M	Y			

Incident Report Date (YY MM DD 14-19): | Navy-Time Zone (HH MM Z 20-25):

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Report Period From (YY MM DD 14-19): 870101 | To (YY MM DD 20-25): 871231

Security Class/ Amended Data Designation (26/20): C

Prepared By: T. V. Darling
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: HEPA Filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
2	0	8	Include Other Information-Detailed comments on the following lines of Section 1
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	Discharge/Effl. Point Gross Volume (41): + 5.26 (46) E +08 (49)	UNITS (50): T	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility tested in Section 1 (Obtain data from other F-5821.1's) (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
3							

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

01	Nuclide Description (27-40)	Amount or Concentration (41-48)		Units (49): C-Curies, G-Grams, D-Dis/SEC/ml, M-Microcuries/ml. (50)	S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown (51)	(52) Shef Comments (80)
4	U-234	+ 0 • 00	E 00	C	U	Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

3

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7/8IT (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

(A = Air Effl B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Sent: Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19; To (YY MM DD) 20-25: 870101 – 871231

26 / 27 Security Class/ Amended Data Designation: C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Prefilters, HEPA filters on processes
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 33); Termination Date (YY MM DD 40)

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Discharge/Effl. Point Gross Volume (41 + 46 2.38 49) E +10 — UNITS (50) F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51 63)

Section "0" Report Control Codes (64 78)

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27 40)	Amount or Concentration (41 46 49)		Units (50)	(51)	Brief Comments (52 80)
4	U-234	+ 1.52	E -04	CU		Assay Range depleted to enriched
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
5	Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

4

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-786T (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.		Report Period From YY MM DD	To YY MM DD	26
Ø		M	Y				A	870101	871231	C

Prepared By: I. A. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: HEPA filter on vacuum pump
2	0	4	Monitoring System: Flow controlled stack sampler. Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

Include Other Information–Detailed comments on the following lines of Section 1

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date	Termination Date	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
3			+2.01 E 10	F		

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

01	Nuclide Description	Amount or Concentration	Units	51	Comments
4	U-234	+1.89 E-04	CU		Assay Range depleted to enriched
5	Disper. Factor	+ . E			

C-Curies, G-Grams, D-Dis/SEC/ml, M-Microcuries/ml; S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

5

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Discha. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date: YY MM DD (14-19) Navy-Time Zone: HH MM Z (20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From YY MM DD (14-19) To YY MM DD (20-25): A 870101 871231

Security Class/ Amended Data Designation (26/27): C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	Plant Title	Y-12 Plant
102	Facility Title	Building
201	Effluent Release Point or Onsite Waste Discharge Point	Stack
202	Operations Generating Pollutants	
203	Waste Treatment System	None
204	Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
205	Monitoring System Continued	collection on filter.
206	No. of Samples (Approximately) / Sample Information 29	150 / Continuous Proportional
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge / Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code	ATMOSPHERE
208–218	Include Other Information-Detailed comments on the following lines of Section 1	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33) / Termination Date (YY MM DD 35-40)

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume (41-49): + 1.03 E 10 F (UNITS 50)

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63) / Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27-40)	Amount or Concentration (41-49)	Units (50)	Brief Comments (52-80)
401	U-234	+ 8.08 E -05	CU	Assay Range depleted to enriched
402–426		+ • E		
501	Disper. Factor	+ • E		

C-Curies G-Grams D-Dis/SEC/mL M-Microcuries/mL
S-Solubility RCG is appropriate
M-Insoluble RCG is appropriate
U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

6

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op. Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Ident.
2	3	4	5	6	7-9	10-12
Y		M	Y			A

Incident Report: Date (YY MM DD) 13-18; Navy-Time Zone (HH MM Z) 19-25

Keypunch Instr. cc 2-19 (All Cards); cc 20-26 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19; To (YY MM DD) 20-25

Security Class/ Amended / Data Designation: 26 / 27

Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended / Data Designation
870101	871231	C

Prepared By: I. Y. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23	SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only) 80
1	0	1		Plant Title: Y-12 Plant
1	0	2		Facility Title: Building
2	0	1		Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2		Operations Generating Pollutants
2	0	3		Waste Treatment System: NONE
2	0	4		Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5		Monitoring System Continued: collection on filter.
2	0	6		No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7		Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code 77-79 — Storage/Disposal Facility Name Code 80
				Include Other Information-Detailed comments on the following lines or Section 1
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD) 26-33	Termination Date (YY MM DD) 35-40	41
		+

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Discharge/Effl. Point Gross Volume: 46 3.18 E 49 10 — UNITS 50: F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51-63

Section "0" Report Control Codes: 64-76

DO NOT WRITE IN THIS SPACE

01	Nuclide Description 27-40	Amount or Concentration 41	42-46	47-49	Units 50	51	52 Brief Comments 80
4	U-234	+	1.53	E -04	CU		Assay Range depleted to enriched
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
4		+	•	E			
5	Disper. Factor	+	•	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

7

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-738T (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

(A = Air Effl. B = Air Discng. M = Liq. Discng. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op. Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discng. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date (YY MM DD 14-19) Navy-Time Zone (HH MM Z 20-25)

Keypunch instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Recon Period From (YY MM DD 14-19) To (YY MM DD 20-25)

13 A 870101 871231 C

26 Security Class/ Amended Data Designation

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
2	0	8	Include Other Information-Detailed comments on the following lines of Section 1
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 1.03 E 10 (46-49) UNITS (50)

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63)

Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

01	27	Nuclide Description (27-40)	Amount or Concentration (41-48)		Units (49)	C-Curies G-Grams S-Soluble RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown (50)	D-Dis/SEC/ML M-Microcuries/ML (51)	Brief Comments (52-80)
4		U-234	78 08	E -05		C	U	Assay Range depleted to enriched
4			+ •	E				
4			+ •	E				
4			+ •	E			

~~CONFIDENTIAL~~

8

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewritten compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Ident.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)	Prepared By
2	3	4	5	6	7-9	10-12	13	14 19	20 25	
Ø		M	Y				A	870101	871231	C

Report Period From YY MM DD / To YY MM DD

Security Class/Amended Data Designation: 26 / 20

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-364

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Field	Entry
1	01	Plant Title: Y-12 Plant
1	02	Facility Title: Building
2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	Operations Generating Pollutants:
2	03	Waste Treatment System: HEPA filter
2	04	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued: collection on filter.
2	06	No. of Samples (Approximately): 150 — Sample Information: Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code
		Include Other Information-Detailed comments on the following lines of Section 1
2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33; Termination Date (YY MM DD) 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 7.88 46 E +08 49 — UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63 — Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	Brief Comments (52 80)
4	U-234	+ 3.76 E -06	CU	Assay Range depleted to enriched
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
5	Disper. Factor	+ . E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

9

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14-19	20-25	26	
0		M	Y				A	870101	871231	C	

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Prepared By: I. V. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

DO NOT WRITE IN THIS SPACE

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Cyclone bag filter, final HEPA filter localized filters on other equipment
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE Storage/Disposal Facility Class. Code Storage/Disposal Facility Name Code 77 79 80
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

SECTION 2 NUCLIDE DATA

DO NOT WRITE IN THIS SPACE

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
28 33	35 40	41 + 4.32 E +10 49	50 F	51 63	64 78

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

101	Nuclide Description (27 40)	Amount or Concentration (41 46 49)		Units (50)	(51)	Brief Comments (52 80)
4	U-234	+ 6 • 58	E -03	CU		Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

C-Curies D-Dis/SEC/ML G-Grams M-Microcuries/ML
S-Soluble RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

1C

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7897 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discng.
M = Liq. Discng. L = Liq. Effl.

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Mac No.	Effl. Discng. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 13 A 14 870101 — To (YY MM DD): 19 871231 — Security Class/ Amended Data Designation: 25 / 26 C

Prepared By: I. Y. Darling
Date: 3/14/88 — Area Code: 615 — Phone: 574-1693

Approved By: T. R. Butz
Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Roughing filters and HEPA filters on process equipment
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28 33) — Termination Date (YY MM DD 35 40)

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume (41): + 3.42 (46) E (49) +10 — UNITS (50): F

Associated Release/Discharge point(s) reported on other F-5821.1's as originating from effluent facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51 63)

Section "0" Report Control Codes (64 76)

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27 40)	Amount or Concentration (41 48)		(49)	Units (50 51)	Brief Comments (52 80)
4	U-234	+ 6.78	E	-04	CU	Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7BIT (1-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Recon — Date (YY MM DD): 14 19; Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 A 870101

Report Period To (YY MM DD): 20 25 871231

26 Security Class/ Amended / Data Designation: C

Prepared By: I. V. Carlino

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Cyclones, dynel filters, and HEPA filters on process equipment
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code 77 — Storage/Disposal Facility Name Code 79 80
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	Section "0" Report Control Codes	Section "0" Report Control Codes
01 3 28 33	35 40	41 + 7.57 E +09 49	50 T	51 63	64 78

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

Nuclide Description	Amount or Concentration	Units (C-Curies, G-Grams, D-Dis/SEC/ml, M-Microcuries/ml, S-Solubles RCG is appropriate, N-Insoluble RCG is appropriate, U-Solubility is unknown)	Brief Comments
U-234	+ 3.82 E -02	CU	Assay Range depleted to enriched
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
	+ • E		
Disper. Factor	+ • E		

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

12

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Ident.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 — To (YY MM DD): 20 25

13 A | 14 19 870101 | 20 25 871231 | 26 C | 27 / 28 Security Class Amended Date | 29 30 Designation

Prepared By: I. W. Darling

Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz

Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23	
1	0	1	Plant Title	Y-12 Plant
1	0	2	Facility Title	Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	0	2	Operations Generating Pollutants	
2	0	3	Waste Treatment System	Dynel roughing filters
2	0	4	Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued	collection on filter.
2	0	6	No. of Samples (Approximately) 150 / Sample Information 29	Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
			Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code (77 79 80)	
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

	Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 / Obtain data from other F-5821.1's	Section "0" Report Control Codes	Section "0" Report Control Codes
01 3	26 33	35 40 41	46 49	50	51 63	64 76	DO NOT WRITE IN THIS SPACE
		+	2.10E	+09			

01	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	(51)	Brief Comments (52 80)
4	U-234	+ 2.37 E -03	C	U	Assay Range depleted to enriched
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
5	Disper. Factor	+ E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

13

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (5-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Olc	Area Olc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD): 14-19 | Navy-Time Zone (HH MM Z): 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD): 13 A 14-19 870101 | To (YY MM DD): 20-25 871231

Security Class/ Amended Data Designation: 26 C / 27-30

Prepared By: I. Y. Darling
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Cynel roughing filters, final filter bank
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code: 77-79 — Storage/Disposal Facility Name Code: 80
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: 01 3

Start-up Date (YY MM DD): 28-33 | Termination Date (YY MM DD): 35-40

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Discharge/Effl. Point Gross Volume: 41 + 5.83 46 E +09 49 | UNITS: 50 T

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51-63 | Section "0" Report Control Codes 64-78

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27-40)	Amount or Concentration (41-46 / 49)	Units (50-51)	52 Brief Comments (52-80)
4	U-234	+ 6.77 E -04	CU	Assay Range depleted to enriched
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
5	Disper. Factor	+ • E		

C-Curies G-Grams D-Dis/SEC/ml. M-Microcuries/ml.
S-Soluble RCG is applicable N-Insoluble RCG is applicable U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

14

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7557 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date: YY MM DD 14 19 — Navy-Time: HH MM Z 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From: YY MM DD 14 19 — To: YY MM DD 20 25

26 / 20

Security Class/ Amended Data Designation: A

870101 871231 C

Prepared By: I. V. Darling

Date: 3/14/88 — Area Code: 615 — Phone: 574-1593

Approved By: T. R. Butz

Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	21 22	23
102	01	Plant Title: Y-12 Plant
103	02	Facility Title: Building
201	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
202	02	Operations Generating Pollutants:
203	03	Waste Treatment System: roughing filters, HEPA filters, and final bag filter house
204	04	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
205	05	Monitoring System Continued: collection on filter.
206	06	No. of Samples (Approximately): 150 — Sample Information: 29 Continuous Proportional
207	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code — 77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1
208		
209		
210		
211		
212		
213		
214		
215		
216		
217		
218		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date			Termination Date			F-Cubic Feet K-Gallons L-Litres	M-Cubic Metres P-Pounds	Discharge/Effl. Point Gross Volume			UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility noted in Section 1 (Collation data from other F-5821.1's)	
YY	MM	DD	YY	MM	DD							Section "0" Report Control Codes	Section "0" Report Control Codes
01 33			35		40	41 +		5.26 46 E	+09	49	50 T	51 63	64 78

DO NOT WRITE IN THIS SPACE

Nuclide Description	Amount or Concentration			Units		Brief Comments
27 40	41		46 49	50	51	52 80
U-234	+4 • 88	E	-04	CU		Assay Range depleted to enriched
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

15

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter Correctible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date: YY MM DD (14-19) | Navy-Time Zone: HH MM Z (20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From: YY MM DD (14-19) To: YY MM DD (20-25)

26 / 27 Security Class/ Amended Data Designation: A / C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Roughing filter and micro-metallic filter on bag filter house on centrifuge
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD, 26 33)	Termination Date (YY MM DD, 35 40)	41	Discharge/Effl. Point Gross Volume (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds) (48 49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51 63)	Section "0" Report Control Codes (64 78)	DO NOT WRITE IN THIS SPACE
3			+	6.89 E +09	T			

01	Nuclide Description (27 40)	Amount or Concentration (41 48)		Units (49)	(50)	(51)	Brief Comments (52 80)
4	U-234	+1 • 55	E -03	C	U		Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

15

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7597 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
0		M	Y			

Incident Report Date (YY MM DD): | Navy-Time Zone (HH MM Z):

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 870101 To (YY MM DD): 871231

Security Class/ Amended Data Designation: A / C

Prepared By: I. V. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

Plant Title	Y-12 Plant
Facility Title	Building
Effluent Release Point or Onsite Waste Discharge Point	Stack
Operations Generating Pollutants	
Waste Treatment System	Final HEPA filter house
Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
Monitoring System Continued	collection on filter.
No. of Samples (Approximately)	150
Sample Information	Continuous Proportional
Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
Storage/Disposal Facility Class Code	
Storage/Disposal Facility Name Code	

Include Other Information-Detailed comments on the following lines of Section 1

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status — Start-up Date (YY MM DD) | Termination Date (YY MM DD)

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 2.84E+09 — UNITS: L

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes | Section "0" Report Control Codes

DO NOT WRITE IN THIS SPACE

Nuclide Description	Amount or Concentration	Units	Snet Comments
U-234	+6.98E-04	CU	Assay Range depleted to enriched
Disper. Factor			

C-Curies G-Grams D-Dis/SECmL M-Microcuries/mL
S-Sometimes RCG is applicable N-Sometimes RCG is applicable U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7SBT (5-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

19

Type or comp

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident: Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Recon: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Recon Period: From (YY MM DD) 14-19; To (YY MM DD) 20-25

Security Class/ Amended Data Designation: 26 / 27

Recon Period From	To	Security Class/ Amended Data Designation
870101	871231	C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Final roughing and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
2	0	8	Include Other Information-Detailed comments on the following lines of Section 1
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD) 28-33	Termination Date (YY MM DD) 35-40

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Discharge/Effl. Point Gross Volume (41-49): + 1.58 E+09 — UNITS (50): F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63)

Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

01	27	Nuclide Description (28-40)	Amount or Concentration (41-46)		Units (50)	(51)	Brief Comments (52-80)
4		U-234	+ 9.02	E-06	CU		Assay Range depleted to enriched
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
4			+ .	E			
5		Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

C-Curies D-Dis/SEC/ml. G-Grams M-Microcuries/ml.
S-Soluble RCG is applicable
N-Insoluble RCG is applicable
U-Solubility is unknown

CONFIDENTIAL

~~CONFIDENTIAL~~

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

2.0

Type comm

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Navy-Time Zone	Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)	Report Period From YY MM DD	To YY MM DD	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13		14-19	20-25	26 / 27
Ø		M	Y				A		870101	871231	C

Prepared By: L. W. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-159
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants: .
2	0	3	Waste Treatment System: Dynel filters, roughing filters, cyclones, final HEPA filters.
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximate): 260 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code — Storage/Disposal Facility Name Code (77 79 80)
2	0	8	Include Other Information-Detailed comments on the following lines of Section 1
2	0	9	.
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status — Start-up Date (YY MM DD): 28 33 — Termination Date (YY MM DD): 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 2.85 E +10 — UNITS: T

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51 63) — Section "0" Report Control Codes (64 78)

DO NOT WRITE IN THIS SPACE

Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	(51)	Brief Comments (52 80)
U-234	+ 4.96 E -03	C	U	Assay Range depleted to enriched
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
Disper. Factor	+ . E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

21

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards); cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD): 13 A 14 19 870101 — To (YY MM DD): 20 25 871231

Security Class/ Amended Data Designation: 26 / 20 C

Prepared By: I. V. Darling
Date: 3/14/88 — Area Code: 615 — Phone: 574-1593

Approved By: T. R. Butz
Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Prefilters, cyclones, traps, spark arrestors, bag filters HEPA filter
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code: 77 — Storage/Disposal Facility Name Code: 79 80
			Include Other Information-Detailed comments on the following lines or Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)
28 33	35 40

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 1.72E +10 49 — UNITS: 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51 63; Section "0" Report Control Codes 64 78

DO NOT WRITE IN THIS SPACE

101	Nuclide Description (27 40)	Amount or Concentration (41 48)		Units (49 50)		Brief Comments (52 80)
4	U-234	+ 4.33	E -04	CU		Assay Range depleted to enriched
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
5	Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

22

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7287 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewritten composition

Section O

A = Air Effl. B = Air Discng.
M = Liq. Discng. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discng. Point Ident.
2	3	4	5	6	7-9	10-12
Ø		M	Y			

Incident Report Date (YY MM DD) 14-19: | Navy-Time Zone (HH MM Z) 20-25:

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD) 14-19: 870101 | To (YY MM DD) 20-25: 871231

26 / 27 Security Classification Amended Data Designation: C

Prepared By: I. W. Darling
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	Cyclones, roughing filters, and HEPA filters
2	04	Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximate) 150 / Sample Information 29	Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
		Storage/Disposal Facility Class Code (77) / Storage/Disposal Facility Name Code (79-80)	
		Include Other Information-Detailed comments on the following lines of Section 1	
2	08		
2	09		
2	10		
2	11		
2	12		
2	13		
2	14		
2	15		
2	16		
2	17		
2	18		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	Discharge/Effl. Point Gross Volume (41-48)	UNITS (49-50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)
		+ 1.54E +10	F			

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27-40)	Amount or Concentration (41-48)	Units (50-51)	Enal Comments (52-80)
4	U-234	+ 4.24 E -04	CU	Assay Range depleted to enriched
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
4		+ E		
5	Disper. Factor	+ E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

2.3

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
2 0	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD): 13 14 19

Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD): 13 A 14 870101 19

Report Period To (YY MM DD): 20 871231 25

26 / 20 Security Class/ Amended Date Designation: C

Prepared By: I. V. Carline

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23	
1	0	1	Plant Title: Y-12 Plant	
1	0	2	Facility Title: Building	
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack	
2	0	2	Operations Generating Pollutants:	
2	0	3	Waste Treatment System: Condensate trap and roughing filters	
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate	
2	0	5	Monitoring System Continued: collection on filter.	
2	0	6	No. of Samples (Approximately): 260 — Sample Information: 29 Continuous Proportional	
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code / Storage/Disposal Facility Name Code: 77 79 80	
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33	Termination Date (YY MM DD) 35 40	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume 41 46 49	UNITS 50	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51 63	Section "0" Report Control Codes 64 78	DO NOT WRITE IN THIS SPACE
3			+ 1.51 E +10	F			

01	Nuclide Description 27 40	Amount or Concentration 41 46 49	Units: C-Curies D-Dis/SEC/ML G-Grams M-Microcuries/ML S-Soluble RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown 50 51	Brief Comments 52 50	DO NOT WRITE IN THIS SPACE
4	U-234	+ 3.99 E -03	CU	Assay Range depleted to enriched	
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

2A

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Sent.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period: From (YY MM DD)	To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14-19	20-25	26 / 20	
Ø		M	Y				A	870101	871231	C	

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Prepared By	Date	Area Code	Phone
I. V. Carlino	3/14/88	615	574-1593
Approved By	**Date**	**Area Code**	**Phone**
T. R. Butz		615	574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	1	01	Plant Title: Y-12 Plant
102	1	02	Facility Title: Building
103	2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
104	2	02	
105	2	03	Waste Treatment System
106	2	04	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
107	2	05	Monitoring System Continued: collection on filter.
108	2	06	No. of Samples (Approximately): 260 | Sample Information: Continuous Proportional
109	2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE | Storage/Disposal Facility Class. Code | Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
110	2	08	
111	2	09	
112	2	10	
113	2	11	
114	2	12	
115	2	13	
116	2	14	
117	2	15	
118	2	16	
119	2	17	
120	2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	DO NOT WRITE IN THIS SPACE
301	YY MM DD: 28 33	YY MM DD: 35 40	41 + 1.05 46 E 49 +09	50 F	Section "0" Report Control Codes: 51 63	Section "0" Report Control Codes: 64 78

	Nuclide Description (27 40)	Amount or Concentration (41 46 E 49)	Units (50 51): C-Curies, G-Grams, D-Dis/SEC/ml, M-Microcuries/ml, S-Solubility RCG is appropriate, M-Insoluble RCG is appropriate, U-Solubility is unknown	Brief Comments (52 80)
401	U-234	+8 •70 E -03	CU	Assay Range depleted to enriched
402		+ • E		
403		+ • E		
404		+ • E		
405		+ • E		
406		+ • E		
407		+ • E		
408		+ • E		
409		+ • E		
410		+ • E		
411		+ • E		
412		+ • E		
413		+ • E		
414		+ • E		
415		+ • E		
416		+ • E		
417		+ • E		
418		+ • E		
419		+ • E		
420		+ • E		
421		+ • E		
422		+ • E		
423		+ • E		
424		+ • E		
425		+ • E		
426		+ • E		
427		+ • E		
428		+ • E		
429		+ • E		
430		+ • E		
431		+ • E		
432		+ • E		
433		+ • E		
434		+ • E		
435		+ • E		
436		+ • E		
437		+ • E		
438		+ • E		
439		+ • E		
440		+ • E		
441		+ • E		
442		+ • E		
443		+ • E		
444		+ • E		
445		+ • E		
446		+ • E		
447		+ • E		
448		+ • E		
449		+ • E		
450		+ • E		
451		+ • E		
452		+ • E		
453		+ • E		
454		+ • E		
455		+ • E		
456		+ • E		
457		+ • E		
458		+ • E		
459		+ • E		
460		+ • E		
461		+ • E		
462		+ • E		
463		+ • E		
464		+ • E		
465		+ • E		
466		+ • E		
467		+ • E		
468		+ • E		
469		+ • E		
470		+ • E		
471		+ • E		
472		+ • E		
473		+ • E		
474		+ • E		
475		+ • E		
476		+ • E		
477		+ • E		
478		+ • E		
479		+ • E		
480		+ • E		
481		+ • E		
482		+ • E		
483		+ • E		
484		+ • E		
485		+ • E		
486		+ • E		
487		+ • E		
488		+ • E		
489		+ • E		
490		+ • E		
491		+ • E		
492		+ • E		
493		+ • E		
494		+ • E		
495		+ • E		
496		+ • E		
497		+ • E		
498		+ • E		
499		+ • E		
500		+ • E		
501		+ • E		
502		+ • E		
503		+ • E		
504		+ • E		
505		+ • E		
506		+ • E		
507		+ • E		
508		+ • E		
509		+ • E		
510		+ • E		
511		+ • E		
512		+ • E		
513		+ • E		
514		+ • E		
515		+ • E		
516		+ • E		
517		+ • E		
518		+ • E		
519		+ • E		
520		+ • E		
521		+ • E		
522		+ • E		
523		+ • E		
524		+ • E		
525		+ • E		
526		+ • E		
527		+ • E		
528		+ • E		
529		+ • E		
530		+ • E		
531		+ • E		
532		+ • E		
533		+ • E		
534		+ • E		
535		+ • E		
536		+ • E		
537		+ • E		
538		+ • E		
539		+ • E		
540		+ • E		
541		+ • E		
542		+ • E		
543		+ • E		
544		+ • E		
545		+ • E		
546		+ • E		
547		+ • E		
548		+ • E		
549		+ • E		
550		+ • E		
551		+ • E		
552		+ • E		
553		+ • E		
554		+ • E		
555		+ • E		
556		+ • E		
557		+ • E		
558		+ • E		
559		+ • E		
560		+ • E		
561		+ • E		
562		+ • E		
563		+ • E		
564		+ • E		
565		+ • E		
566		+ • E		
567		+ • E		
568		+ • E		
569		+ • E		
570		+ • E		
571		+ • E		
572		+ • E		
573		+ • E		
574		+ • E		
575		+ • E		
576		+ • E		
577		+ • E		
578		+ • E		
579		+ • E		
580		+ • E		
581		+ • E		
582		+ • E		
583		+ • E		
584		+ • E		
585		+ • E		
586		+ • E		
587		+ • E		
588		+ • E		
589		+ • E		
590		+ • E		
591		+ • E		
592		+ • E		
593		+ • E		
594		+ • E		
595		+ • E		
596		+ • E		
597		+ • E		
598		+ • E		
599		+ • E		
600		+ • E		
601		+ • E		
602		+ • E		
603		+ • E		
604		+ • E		
605		+ • E		
606		+ • E		
607		+ • E		
608		+ • E		
609		+ • E		
610		+ • E		
611		+ • E		
612		+ • E		
613		+ • E		
614		+ • E		
615		+ • E		
616		+ • E		
617		+ • E		
618		+ • E		
619		+ • E		
620		+ • E		
621		+ • E		
622		+ • E		
623		+ • E		
624		+ • E		
625		+ • E		
626		+ • E		
627		+ • E		
628		+ • E		
629		+ • E		
630		+ • E		
631		+ • E		
632		+ • E		
633		+ • E		
634		+ • E		
635		+ • E		
636		+ • E		
637		+ • E		
638		+ • E		
639		+ • E		
640		+ • E		
641		+ • E		
642		+ • E		
643		+ • E		
644		+ • E		
645		+ • E		
646		+ • E		
647		+ • E		
648		+ • E		
649		+ • E		
650		+ • E		
651		+ • E		
652		+ • E		
653		+ • E		
654		+ • E		
655		+ • E		
656		+ • E		
657		+ • E		
658		+ • E		
659		+ • E		
660		+ • E		
661		+ • E		
662		+ • E		
663		+ • E		
664		+ • E		
665		+ • E		
666		+ • E		
667		+ • E		
668		+ • E		
669		+ • E		
670		+ • E		
671		+ • E		
672		+ • E		
673		+ • E		
674		+ • E		
675		+ • E		
676		+ • E		
677		+ • E		
678		+ • E		
679		+ • E		
680		+ • E		
681		+ • E		
682		+ • E		
683		+ • E		
684		+ • E		
685		+ • E		
686		+ • E		
687		+ • E		
688		+ • E		
689		+ • E		
690		+ • E		
691		+ • E		
692		+ • E		
693		+ • E		
694		+ • E		
695		+ • E		
696		+ • E		
697		+ • E		
698		+ • E		
699		+ • E		
700		+ • E		
701		+ • E		
702		+ • E		
703		+ • E		
704		+ • E		
705		+ • E		
706		+ • E		
707		+ • E		
708		+ • E		
709		+ • E		
710		+ • E		
711		+ • E		
712		+ • E		
713		+ • E		
714		+ • E		
715		+ • E		
716		+ • E		
717		+ • E		
718		+ • E		
719		+ • E		
720		+ • E		
721		+ • E		
722		+ • E		
723		+ • E		
724		+ • E		
725		+ • E		
726		+ • E		
727		+ • E		
728		+ • E		
729		+ • E		
730		+ • E		
731		+ • E		
732		+ • E		
733		+ • E		
734		+ • E		
735		+ • E		
736		+ • E		
737		+ • E		
738		+ • E		
739		+ • E		
740		+ • E		
741		+ • E		
742		+ • E		
743		+ • E		
744		+ • E		
745		+ • E		
746		+ • E		
747		+ • E		
748		+ • E		
749		+ • E		
750		+ • E		
751		+ • E		
752		+ • E		
753		+ • E		
754		+ • E		
755		+ • E		
756		+ • E		
757		+ • E		
758		+ • E		
759		+ • E		
760		+ • E		
761		+ • E		
762		+ • E		
763		+ • E		
764		+ • E		
765		+ • E		
766		+ • E		
767		+ • E		
768		+ • E		
769		+ • E		
770		+ • E		
771		+ • E		
772		+ • E		
773		+ • E		
774		+ • E		
775		+ • E		
776		+ • E		
777		+ • E		
778		+ • E		
779		+ • E		
780		+ • E		
781		+ • E		
782		+ • E		
783		+ • E		
784		+ • E		
785		+ • E		
786		+ • E		
787		+ • E		
788		+ • E		
789		+ • E		
790		+ • E		
791		+ • E		
792		+ • E		
793		+ • E		
794		+ • E		
795		+ • E		
796		+ • E		
797		+ • E		
798		+ • E		
799		+ • E		
800		+ • E		
801		+ • E		
802		+ • E		
803		+ • E		
804		+ • E		
805		+ • E		
806		+ • E		
807		+ • E		
808		+ • E		
809		+ • E		
810		+ • E		
811		+ • E		
812		+ • E		
813		+ • E		
814		+ • E		
815		+ • E		
816		+ • E		
817		+ • E		
818		+ • E		
819		+ • E		
820		+ • E		
821		+ • E		
822		+ • E		
823		+ • E		
824		+ • E		
825		+ • E		
826		+ • E		
827		+ • E		
828		+ • E		
829		+ • E		
830		+ • E		
831		+ • E		
832		+ • E		
833		+ • E		
834		+ • E		
835		+ • E		
836		+ • E		
837		+ • E		
838		+ • E		
839		+ • E		
840		+ • E		
841		+ • E		
842		+ • E		
843		+ • E		
844		+ • E		
845		+ • E		
846		+ • E		
847		+ • E		
848		+ • E		
849		+ • E		
850		+ • E		
851		+ • E		
852		+ • E		
853		+ • E		
854		+ • E		
855		+ • E		
856		+ • E		
857		+ • E		
858		+ • E		
859		+ • E		
860		+ • E		
861		+ • E		
862		+ • E		
863		+ • E		
864		+ • E		
865		+ • E		
866		+ • E		
867		+ • E		
868		+ • E		
869		+ • E		
870		+ • E		
871		+ • E		
872		+ • E		
873		+ • E		
874		+ • E		
875		+ • E		
876		+ • E		
877		+ • E		
878		+ • E		
879		+ • E		
880		+ • E		
881		+ • E		
882		+ • E		
883		+ • E		
884		+ • E		
885		+ • E		
886		+ • E		
887		+ • E		
888		+ • E		
889		+ • E		
890		+ • E		
891		+ • E		
892		+ • E		
893		+ • E		
894		+ • E		
895		+ • E		
896		+ • E		
897		+ • E		
898		+ • E		
899		+ • E		
900		+ • E		
901		+ • E		
902		+ • E		
903		+ • E		
904		+ • E		
905		+ • E		
906		+ • E		
907		+ • E		
908		+ • E		
909		+ • E		
910		+ • E		
911		+ • E		
912		+ • E		
913		+ • E		
914		+ • E		
915		+ • E		
916		+ • E		
917		+ • E		
918		+ • E		
919		+ • E		
920		+ • E		
921		+ • E		
922		+ • E		
923		+ • E		
924		+ • E		
925		+ • E		
926		+ • E		
927		+ • E		
928		+ • E		
929		+ • E		
930		+ • E		
931		+ • E		
932		+ • E		
933		+ • E		
934		+ • E		
935		+ • E		
936		+ • E		
937		+ • E		
938		+ • E		
939		+ • E		
940		+ • E		
941		+ • E		
942		+ • E		
943		+ • E		
944		+ • E		
945		+ • E		
946		+ • E		
947		+ • E		
948		+ • E		
949		+ • E		
950		+ • E		
951		+ • E		
952		+ • E		
953		+ • E		
954		+ • E		
955		+ • E		
956		+ • E		
957		+ • E		
958		+ • E		
959		+ • E		
960		+ • E		
961		+ • E		
962		+ • E		
963		+ • E		
964		+ • E		
965		+ • E		
966		+ • E		
967		+ • E		
968		+ • E		
969		+ • E		
970		+ • E		
971		+ • E		
972		+ • E		
973		+ • E		
974		+ • E		
975		+ • E		
976		+ • E		
977		+ • E		
978		+ • E		
979		+ • E		
980		+ • E		
981		+ • E		
982		+ • E		
983		+ • E		
984		+ • E		
985		+ • E		
986		+ • E		
987		+ • E		
988		+ • E		
989		+ • E		
990		+ • E		
991		+ • E		
992		+ • E		
993		+ • E		
994		+ • E		
995		+ • E		
996		+ • E		
997		+ • E		
998		+ • E		
999		+ • E		
1000		+ • E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

25

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. S = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Ident.
2 0	3	4 M	5 Y	6	7-9	10-12 13 A

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Report Period: From (YY MM DD) 14-19 870101; To (YY MM DD) 20-25 871231

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Security Class/ Amended Data Designation: 26 / 20 C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 ; Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33); Termination Date (YY MM DD 35-40)

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume (41-49): 1.31 E +09 (E)

UNITS (50): T

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51-63); Section "0" Report Control Codes (64-76)

DO NOT WRITE IN THIS SPACE

101	Nuclide Description (27-40)	Amount or Concentration (41-48)		(49)	Units (50)	(51)	Brief Comments (52-80)
4	U-234	+ 0.00	E	+ 0	CU		Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

20

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-83)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg.
M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)	Report Period: From (YY MM DD)	To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14 :9	20 :5	20	26 / 20	
0		M	Y				A	870101	871231	C		

Prepared By: L. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Sutz
Date: Area Code: 615 Phone: 574-364

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	Final pre- and HEPA filter
2	04	Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximately) / Sample Information	150 / Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
		Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code	
		Include Other Information-Detailed comments on the following lines of Section 1	
2	08		
2	09		
2	10		
2	11		
2	12		
2	13		
2	14		
2	15		
2	16		
2	17		
2	18		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	
				Section "0" Report Control Codes	Section "0" Report Control Codes
28 33	35 40 41	2.89 E +09	50 F	51 63	64 78

DO NOT WRITE IN THIS SPACE

	Nuclide Description	Amount or Concentration			Units		Sheet Comments
	27 40	41 46		49	50	51	52 80
4	U-234	+ 3 • 99	E	-05	CU		Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

2-7

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc.	Area Ofc.	Contr.	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date (YY MM DD, 14-19) / Navy-Time Zone (HH MM Z, 20-25):

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Report Period From (YY MM DD, 14-19) To (YY MM DD, 20-25): A 870101 871231

26 / Security Class/ Amended Data Designation: C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

Plant Title	Y-12 Plant
Facility Title	Building
Effluent Release Point or Onsite Waste Discharge Point	Stack
Operations Generating Pollutants	
Waste Treatment System	Cyclones, roughing filters, demisters, HEPA filters
Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
Monitoring System Continued	collection on filter.
No. of Samples (Approximately) / Sample Information	260 / 29 Continuous Proportional
Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code	

DO NOT WRITE IN THIS SPACE

Include Other Information-Detailed comments on the following lines of Section 1

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD, 26-33)	Termination Date (YY MM DD, 35-40)	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds	Discharge/Effl. Point Gross Volume	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's) Section "0" Report Control Codes	Section "0" Report Control Codes
3			9.15 E +09			

DO NOT WRITE IN THIS SPACE

Nuclide Description	Amount or Concentration	Units (C-Curies, D-Dis/SEC/Unit, G-Grams, M-Microcuries/Unit; S-Soluble RCG is appropriate, M-Insoluble RCG is appropriate, U-Solubility is unknown)	Short Comments
U-234	+2 • 44 E -02	CU	Assay Range depleted to enriched
Disper. Factor	+ • E		

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

28

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
Ø		M	Y			A

Incident Report Date (YY MM DD) 14-19 | Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD) 14-19 | To (YY MM DD) 20-25

Security Class/ Amended Data Designation 26 / 27

870101 871231 C

Prepared By: I. V. Darling
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants
2	0	3	Waste Treatment System: and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 | Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE | Storage/Disposal Facility Class. Code | Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines or Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33) | Termination Date (YY MM DD 35-40)

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 7.73 46 E +09 49 | UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63) | Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

Nuclide Description (27-40)	Amount or Concentration (41-46 E 47-49)	Units (50)	(51)	Snet Comments (52-80)
U-234	+8 •18 E -05	CU		Assay Range depleted to enriched
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

29

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev 11-80) Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. S = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
Ø		M	V			A

Incident Report Date (YY MM DD 14-19) Navy-Time Zone (HH MM Z 20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD 14-19) To (YY MM DD 20-25)

26 / 27 Security Class/ Amended Data Designation

Report Period From (YY MM DD 14-19)	To (YY MM DD 20-25)	26 / 27 Security Class/ Amended Data Designation
870101	871231	C

Prepared By: T. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

DO NOT WRITE IN THIS SPACE

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77-79, 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

SECTION 2 NUCLIDE DATA

DO NOT WRITE IN THIS SPACE

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	41
		+

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume (46-49): 7.10 E +09

UNITS (50): F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)

Nuclide Description (27-40)	Amount or Concentration (41-48)		49	Units (50)	51	Sheet Comments (52-80)
U-234	+ 8.63	E	-04	CU		Assay Range depleted to enriched
	+ •	E				
	+ •	E				
	+ •	E			

CONFIDENTIAL

30

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op Olc	Area Olc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
Ø		M	Y			

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 — To (YY MM DD): 20 25

26 / 27 Security Class/ Amended Data Designation: A / C

Prepared By: T. V. Darling
Date: 3/14/88 — Area Code: 615 — Phone: 574-1593

Approved By: T. R. Butz
Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	01	01	Plant Title: Y-12 Plant
1	02	02	Facility Title: Building
2	01	03	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	04	Operations Generating Pollutants:
2	03	05	Waste Treatment System: and HEPA filters
2	04	06	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	05	07	Monitoring System Continued: collection on filter.
2	06	08	No. of Samples (Approximately): 150 — Sample Information: 29 Continuous Proportional
2	07	09	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code: — Storage/Disposal Facility Name Code: 77 79 80
			Include Other Information-Detailed comments on the following lines of Section 1
2	08	10	
2	09	11	
2	10	12	
2	11	13	
2	12	14	
2	13	15	
2	14	16	
2	15	17	
2	16	18	
2	17	19	
2	18	20	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)
28 33	35 40

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 7.88 E +09 49 — UNITS: 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 76

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50 51)	Brief Comments (52 80)
4	U-234	+4 •70 E -05	CU	Assay Range depleted to enriched
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
5	Disper. Factor	+ • E		

C-Curies G-Grams D-Dis/SEC/cm³ M-Microcuries/mL

S-Solubility RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

31

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl B = Air Discng.
M = Liq. Discng. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Release Location Ident.: Map No.	Effl. Discng. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date (YY MM DD): 13 A 14 870101 19
Navy-Time Zone (HH MM Z): 20 871231 25 C

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Record Period From (YY MM DD): 20 25
To (YY MM DD): 26 / 20
Security Class/ Amended Data Designation

Prepared By: I. J. Parlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23	30
1	0	1	Plant Title: Y-12 Plant	
1	0	2	Facility Title: Building	
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack	
2	0	2	Operations Generating Pollutants	
2	0	3		
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate	
2	0	5	Monitoring System Continued: collection on filter.	
2	0	6	No. of Samples (Approximately): 150 — Sample Information: 29 Continuous Proportional	
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code: 77 79 80	
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33	Termination Date (YY MM DD) 35 40	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume 41 + 7.36 46 E +09 49	UNITS 50 F	Associated release/discharge permit(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51 63	Section "0" Report Control Codes 64 78	DO NOT WRITE IN THIS SPACE

01	Nuclide Description 27 40	Amount or Concentration 41 46	49	Units: C-Curies G-Grams D-Dis/SEC/mL M-Microcuries/mL: S-Solubility RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown 50	51	Brief Comments 52 80
4	U-234	+9 •40 E	-04	C	U	Assay Range depleted to enriched
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
5	Dispen. Factor	+ • E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

32

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter Composite

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.):

Report Control Codes: Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Reference Location Sent.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period: From (YY MM DD)	To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14 :19	20 :25	26 / 27	28
Ø		M	Y				A	870101	871231		C

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-159
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 26 33)	Termination Date (YY MM DD 35 40)	41	Discharge/Effl. Point Gross Volume	46	49	UNITS 50	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51 63)	Section "0" Report Control Codes (64 78)	DO NOT WRITE IN THIS SPACE
3			+	7.52	E	+08	F			

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

C-Curies D-Dis/SEC/mL G-Grams M-Microcuries/mL S-Sensible RCG is appropriate N-Insensible RCG is appropriate U-Solubility is unknown

01	Nuclide Description (27 40)	Amount or Concentration (41 46 49)		Units (50 51)	Brief Comments (52 80)
4	U-234	+1.03 E -05		CU	Assay Range depleted to enriched
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
5	Disper. Factor	+ . E			

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

CONFIDENTIAL

33

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes							Reference Location Ident.	
Op. Ofc.	Area Ofc.	Contr.	Plant	Facility		Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6		7-9	10-12
0		M	Y				

Incident Report Date (YY MM DD): 14–19 | Navy-Time Zone (HH MM Z): 20–25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 20–25 | To (YY MM DD): 26–31

Security Class/ Amended Data Designation: 32

13 A | 14–19: 870101 | 20–25: 871231 | 32 C

Prepared By: T. . Carlino
Date: 3/24/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code — Storage/Disposal Facility Name Code (77 79 80)
2	0	8	Include Other Information-Detailed comments on the following lines of Section 1
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
01 3 — 28–33	35–40	41 + 6.31 46 E +08 49	50 F	51–63	64–78

F-Cubic Feet, M-Cubic Metres, K-Gallons, P-Pounds, L-Litres

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27–40)	Amount or Concentration (41–46)			Units (49–50)		Brief Comments (52–80)
4	U-234	+ 5.82	E	-06	CU		Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

34

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident. Map No.	Effl. Dischg. Point Ident.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14-19	20-25	26 / 20	
0		M	Y				A	870101	871231	C	

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Prepared By: I. V. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 / Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE (Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code; 77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33; Termination Date (YY MM DD) 35 40

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Discharge/Effl. Point Gross Volume: 41 + 3.42 E +09 49; UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from onsite facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50 51)	Brief Comments (52 80)
4	U-234	+ 2 .15 E -05	C U	Assay Range depleted to enriched
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
4		+ . E		
5	Disper. Factor	+ . E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

35

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc 2 Ø; Area Ofc 3; Contr 4 M; Plant 5 Y; Facility 6; Reference Location Ident.: Map No. 7-9; Effl. Dischg. Point Iden. 10-12; 13 A

Incident Report: Date YY MM DD 14 19; Navy-Time Zone HH MM Z 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From YY MM DD 14 19 870101; To YY MM DD 20 25 871231

Security Class/Amended Data Designation 26/20 C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Field	Entry
1	01	Plant Title: Y-12 Plant
1	02	Facility Title: Building
2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	Operations Generating Pollutants
2	03	
2	04	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued: collection on filter.
2	06	No. of Samples (Approximately): 150; Sample Information: 29 Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code 77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1
2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date YY MM DD 28 33; Termination Date YY MM DD 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 1.05 46 E +09 49

UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	(51)	Brief Comments (52–80)
4	U-234	+ 7.88 E -06	CU		Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

36

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)	Prepared By
2	3	4	5	6	7-9	10-12	13	14	20	26
0		M	Y				A	870101	871231	C

Report Period From YY MM DD 14–19; To YY MM DD 20–25

Security Class/Amended Data Designation 26/20

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Field	Entry
1	01	Plant Title: Y-12 Plant
1	02	Facility Title: Building
2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	Operations Generating Pollutants:
2	03	Waste Treatment System: Fabric filters and metal filters
2	04	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued: collection on filter.
2	06	No. of Samples (Approximately): 150; Sample Information: Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code
		Include Other Information-Detailed comments on the following lines of Section 1
2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28–33); Termination Date (YY MM DD 35–40)

F-Cubic Feet, M-Cubic Metres, K-Gallons, P-Pounds, L-Litres

Discharge/Effl. Point Gross Volume: 41 + 1.68 E +09 (46–49); UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51–63); Section "0" Report Control Codes (64–76)

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	Unit (51)	Brief Comments (52–80)
4	U-234	+1.07 E -05	CU		Assay Range depleted to enriched
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
5	Disper. Factor	+ E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

37

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Ident.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	14-19	20-25	14-19	20-25	26
0		M	Y						870101	871231	C

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Prepared By: I. J. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Code	Item	Entry
101	Plant Title	Y-12 Plant
102	Facility Title	Building
201	Effluent Release Point or Onsite Waste Discharge Point	Stack
202	Operations Generating Pollutants	
203	Waste Treatment System	Pre-filters, final HEPA filters
204	Monitoring System	Flow controlled stack sampler, Multipoint probe, particulate
205	Monitoring System Continued	collection on filter.
206	No. of Samples (Approximately)	150
207	Sample Information	Continuous Proportional
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
	Storage/Disposal Facility Class. Code	
	Storage/Disposal Facility Name Code	

Include Other Information-Detailed comments on the following lines of Section 1

Code	Entry
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS
28-33	35-40	41 + 5.26 E +08	50 F

F-Cubic Feet, M-Cubic Metres, K-Gallons, P-Pounds, L-Litres

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51-63
Section "0" Report Control Codes: 64-78

DO NOT WRITE IN THIS SPACE

Nuclide Description (27-40)	Amount or Concentration (41-48)	Units (50)	Flag (51)	Brief Comments (52-80)
U-234	+3 .97 E -06	CU		Assay Range depleted to enriched
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
	+ . E			
Disper. Factor	+ . E			

C-Curies, D-Dis/SEC/Mt., G-Grams, M-Microcuries/Mt.
S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

36

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discha.
M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date (YY MM DD) 14-19: | Navy-Time Zone (HH MM Z) 20-25:

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD) 20-25: 870101 | To (YY MM DD): 871231

Security Class/ Amended Data Designation 26: C

Prepared By: I. V. Darling
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	Plant Title: Y-12 Plant
102	Facility Title: Building
201	Effluent Release Point or Onsite Waste Discharge Point: Stack
202	Operations Generating Pollutants:
203	
204	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
205	Monitoring System Continued: collection on filter.
206	No. of Samples (Approximately): 150 | Sample Information 29: Continuous Proportional
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE | Storage/Disposal Facility Class. Code | Storage/Disposal Facility Name Code 77 79 80
	Include Other Information-Detailed comments on the following lines of Section 1
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28-33: | Termination Date (YY MM DD) 35-40:

F-Cubic Feet K-Gallons L-Litres | M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume 41-49: + 4.73 E +10 | UNITS 50: F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes 51-63: | Section "0" Report Control Codes 64-78:

DO NOT WRITE IN THIS SPACE

301	Nuclide Description 27-40	Amount or Concentration 41-48		Units 49	C-Curies G-Grams D-Dis/SEC/cm. M-Microcuries/ml. S-Soluble RCG is applicable N-Insoluble RCG is applicable U-Solubility is unknown 50	51	Brief Comments 52-80
401	U-234	+6 •07	E -04		C	U	Assay Range depleted to enriched
402		+ •	E				
403		+ •	E				
404		+ •	E				
405		+ •	E				
406		+ •	E				
407		+ •	E				
408		+ •	E				
409		+ •	E				
410		+ •	E				
411		+ •	E				
412		+ •	E				
413		+ •	E				
414		+ •	E				
415		+ •	E				
416		+ •	E				
417		+ •	E				
418		+ •	E				
419		+ •	E				
420		+ •	E				
421		+ •	E				
422		+ •	E				
423		+ •	E				
424		+ •	E				
425		+ •	E				
426		+ •	E				
427		+ •	E				
428		+ •	E				
429		+ •	E				
430		+ •	E				
431		+ •	E				
501	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

39

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

(A = Air Effl. S = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. (Dischg. Point Ident.		Accident Report Date: YY MM DD	Navy-Time Zone: HH MM Z	Report Period From: YY MM DD	Report Period To: YY MM DD		Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14 19	20 25	14 19	20 25	26 / 20	
Ø		M	Y				A	870101		870101	871231	C	

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Prepared By: I. Y. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Final pre- and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 / Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE / Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 *(Obtain data from other F-5821.1's)*

DO NOT WRITE IN THIS SPACE

101	Start-up Date: YY MM DD (26 33)	Termination Date: YY MM DD (35 40)	41	Discharge/Effl. Point Gross Volume	49	UNITS 50	Section "0" Report Control Codes (51 53)	Section "0" Report Control Codes (64 78)
3			+	5.26 46 E +09	49	F	51 53	64 78

101	Nuclide Description (27 40)	Amount or Concentration (41 46)		49	Units 50	51	C-Curies G-Grams D-Dis/SEC/ml. M-Microcuries/ml. S-Soluble RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown	Brief Comments (52 80)
4	U-234	+ 2• 42	E	-05	C	U		Assay Range depleted to enriched
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
5	Disper. Factor	+ •	E					

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

40

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Type or comp

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident: Map No.	Effl. Dischg. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19 — To (YY MM DD) 20-25

26 Security Class/ Amended / Data Designation 20

A | 870101 | 871231 | C

Prepared By: I. Y. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-15

Approved By: T. R. Butz
Date: Area Code: 615 574-3

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 — Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28-33; Termination Date (YY MM DD) 35-40

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 2.63 E +09 49; UNITS 50: F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes 51-63; Section "0" Report Control Codes 64-78

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27-40)	Amount or Concentration (41-46)		(49)	Units (50-51)	Brief Comments (52-80)
4	U-234	+ 2.89	E	-05	CU	Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

41

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewr comp

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			13 A

Accident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19 870101; To (YY MM DD) 20-25 871231

Security Class/ Amended Data Designation: 26 / 20 C

Prepared By: I. J. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-159

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Prefilters and
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume (41 + 46-49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
3			1.37E +10	F			

01	Nuclide Description (27-40)	Amount or Concentration (41 + 46 E 49)	Units (50)	C-Curies G-Grams D-Dis/SEC/ML M-Microcuries/ML S-Soluble RCG is applicable N-Insoluble RCG is applicable U-Solubility is unknown (51)	Brief Comments (52-80)
4	U-234	+5.66 E -05	CU		Assay Range depleted to enriched
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
5	Disper. Factor	+ . E			

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

42

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7287 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter composition

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.		Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)	Report Period From (YY MM DD)	To (YY MM DD)	Security Class/ Amended Data Designation
Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Map No.	Effl. Dischg. Point Iden.						
2	3	4	5	6	7-9	10-12	13	14 19		20 25	26 / 27	28
0		M	Y				A	870101		871231	C	

Prepared By: I. V. Darling — Date: 3/14/88 — Area Code: 615 — Phone: 574-1593

Approved By: T. R. Butz — Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

DO NOT WRITE IN THIS SPACE

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	
2	0	3	final HEPA filter
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

SECTION 2 NUCLIDE DATA

DO NOT WRITE IN THIS SPACE

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes	Section "0" Report Control Codes
01 33	35 40 41	3.15 45 E +09 49	50 T	51 63	64 78

01	Nuclide Description (27 40)	Amount or Concentration (41 46)			49	Units (50)	51	Brief Comments (52 80)
4	U-234	+2 • 07	E	-05		C	U	Assay range depleted to enriched
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
4		+ •	E					
5	Disper. Factor	+ •	E					

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

43

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewrit
compositi

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)	Prepared By	Date	Area Code	Phone
2	3	4	5	6	7-9	10-12	14 19	20 25		I. V. Darling	3/14/88	615	574-1593
Ø		M	Y				A	870101	871231	C	Approved By: T. R. Butz	615	574-364

Report Period From YY MM DD: 14 19 — To YY MM DD: 20 25

Security Class/Amended Data Designation: 26 / 20

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Field	Entry
1	Plant Title	Y-12 Plant
1	Facility Title	Building
2	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	Operations Generating Pollutants	
2	Waste Treatment System	None
2	Monitoring System	Flow controlled stack sampler, Multipoint probe, particulate
2	Monitoring System Continued	collection on filter.
2	No. of Samples (Approximately)	260
2	Sample Information	Continuous Proportional
2	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
	Storage/Disposal Facility Class. Code	
	Storage/Disposal Facility Name Code	

Include Other Information-Detailed comments on the following lines of Section 1

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33; Termination Date (YY MM DD) 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 1.21 46 E +09 49

UNITS: 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 76

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50–51)	Brief Comments (52–80)
4	U-234	+ 2•11 E -05	CU	Assay Range depleted to enriched
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
5	Disper. Factor	+ • E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

4-4

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter comment

Section 0

A = Air Effl. 2 = Air Dischg.
M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.		Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)	Report Period From (YY MM DD)	To (YY MM DD)	Security Class/ Amended Data Designation
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.						
2	3	4	5	6	7-9	10-12	13	14 :9	20	20 25	26	20
0		M	Y			A		870101		871231	C	

Prepared By: T. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-153

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume (41 +, 46-49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's) — Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
01 23 26 33	35 40	7.31E +09	F			

F-Cubic Feet, K-Gallons, L-Litres; M-Cubic Metres, P-Pounds

	Nuclide Description (27-40)	Amount or Concentration (41 +, 46-49)	Units (50)	Solubility (51)	Brief Comments (52-80)
4	U-234	+ 9.42 E -05	CU		Assay Range depleted to enriched
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
5	Disper. Factor	+ . E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

45

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-83) Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Olc	Area Olc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Iden.
2	3	4	5	6	7-9	10-12
Ø		M	Y			

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc Z-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 — To (YY MM DD): 20 25

26 / 20 Security Class/ Amended Data Designation

13 A | 14 870101 19 | 20 871231 25 | 26 C 20

Prepared By: I. V. Darling

Date: 3/14/88 — Area Code: 615 — Phone: 574-1593

Approved By: T. R. Butz

Date: — Area Code: 615 — Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23	30
1	0	1	Plant Title: Y-12 Plant	
1	0	2	Facility Title: Building	
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack	
2	0	2	Operations Generating Pollutants	
2	0	3	Waste Treatment System: Cyclone, bag filters, and final HEPA filters on	
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate	
2	0	5	Monitoring System Continued: collection on filter.	
2	0	6	No. of Samples (Approximately): 52 — Sample Information 29: Continuous Proportional	
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code: 77 79 80	
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	
				Section "0" Report Control Codes	Section "0" Report Control Codes
01 28 33	35 40	41	50	51 63	64 78
3		+ 9.96 46 E +09 49	T		

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

DO NOT WRITE IN THIS SPACE

	Nuclide Description	Amount or Concentration			Units		Brief Comments
01	27 40	41 46		49	50	51	52 80
4	U-234	+ 2 • 00	E	-05	C	U	Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

46

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (5-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. S = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
2 0	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD 14-19) Navy-Time Zone (HH MM Z 20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD 14-19) To (YY MM DD 20-25)

26 Security Class/ Amended Data Designation

13 A | 14-19 870101 | 20-25 871231 | 26 C

Prepared By: I. . Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Portable demisters and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	41
01 3		+

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Discharge/Effl. Point Gross Volume: 46 2.37 E +10 49 — UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63) | Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27-40)	Amount or Concentration (41-46)		49	Units (50-51)	52 Brief Comments (52-80)
4	U-234	+3 • 60	E	-05	CU	Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

47

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. D = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Report Date (YY MM DD, 14-19): | Navy-Time Zone (HH MM Z, 20-25):

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD, 20-25): 870101 To (YY MM DD): 871231

Security Class/ Amended Data Designation (26): C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	0	1	Plant Title: Y-12 Plant
102	0	2	Facility Title: Building
201	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
202	0	2	Operations Generating Pollutants:
203	0	3	Waste Treatment System: Dust accumulators, cyclones, final pre- and HEPA filters
204	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
205	0	5	Monitoring System Continued: collection on filter.
206	0	6	No. of Samples (Approximately): 100 ; Sample Information: Continuous Proportional
207	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE ; Storage/Disposal Facility Class. Code ; Storage/Disposal Facility Name Code
			Include Other Information-Detailed comments on the following lines of Section 1
208	0	8	
209	0	9	
210	1	0	
211	1	1	
212	1	2	
213	1	3	
214	1	4	
215	1	5	
216	1	6	
217	1	7	
218	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD, 28-33) | Termination Date (YY MM DD, 35-40)

F-Cubic Feet K-Gallons L-Litres | M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume (41-49): + 3.15 E +09 ; UNITS (50): F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63) | Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27-40)	Amount or Concentration (41-49)	Units (50)	Solubility (51)	Brief Comments (52-80)
401	U-234	+ 9.19 E -06	C	U	Assay Range depleted to enriched
402		+ . E			
403		+ . E			
404		+ . E			

~~CONFIDENTIAL~~

48

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Section 0

A = Air Effl. S = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.		Incident Report Date YY MM DD	Navy-Time Zone HH MM Z	Report Period From YY MM DD	To YY MM DD	Security Class/Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14-19	20-25	14-19	20-25	26 / 20
0		M	Y				A			870101	871231	C

Keypunch Instr. cc 2-19 (All Cards); cc 20-26 (For Section 2 ONLY)

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-159[illegible]

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-364[illegible]

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Portable demisters and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 100 ; Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE ; Storage/Disposal Facility Class Code: ; Storage/Disposal Facility Name Code:
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date YY MM DD	Termination Date YY MM DD	41	Discharge/Effl. Point Gross Volume (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	Units	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-76)
3			+	6.44 E +09	F		

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

Units: C-Curies, G-Grams, D-Dis/SEC/ml, M-Microcuries/ml. S-Soluble RCG is applicable; N-Insoluble RCG is applicable; U-Solubility is unknown

01	Nuclide Description (27-40)	Amount or Concentration (41-49)	Units (50)	51	Brief Comments (52-80)
4	U-234	+1.89 E -05	C	U	Assay Range depleted to enriched
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
5	Disper. Factor	+ . E			

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

~~CONFIDENTIAL~~

49

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date (YY MM DD): 14 19 | Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 | To (YY MM DD): 20 25

Security Class/ Amended Data Designation: 26 / 20

13 A | 14 19 870101 | 20 25 871231 | 26 / 20 C

Prepared By: T. . Carlino
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23	
1	0	1	Plant Title	Y-12 Plant
1	0	2	Facility Title	Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	0	2	Operations Generating Pollutants	
2	0	3	Waste Treatment System	Final pre- and HEPA filters
2	0	4	Monitoring System	Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued	collection on filter.
2	0	6	No. of Samples (Approximately) 100 / Sample Information 29	Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
			Storage/Disposal Facility Class Code / Storage/Disposal Facility Name Code	77 79 80
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status		F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds		Associated release/discharge point(s) reported on other F-5821.1's as originating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)		DO NOT WRITE IN THIS SPACE
Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes	
01 3 26 33	35 40	41 + 2.10 46 E +10 49	50 F	51 53	64 78	

Nuclide Description	Amount or Concentration	Units	Annual Comments
01 27 40	41 46 49	50 51	52 80
4 U-234	+ 4.62 E -03	CU	Assay Range depleted to enriched
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
4	+ . E		
5 Disper. Factor	+ . E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

50

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op. Ofc 2 Ø; Area Ofc 3; Contr 4 M; Plant 5 Y; Facility 6; Reference Location Ident: Map No. 7-9; Effl. Dischg. Point Iden. 10-12

Incident Report: Date YY MM DD 14 19; Navy-Time Zone HH MM Z 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From YY MM DD 14 19 A 870101; To YY MM DD 20 25 871231

Security Class/Amended Data Designation 26/20 C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Field	Entry
01	21 22 23	SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only) 30
1	0 1	Plant Title: Y-12 Plant
1	0 2	Facility Title: Building
2	0 1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0 2	
2	0 3	Waste Treatment System: Cyclone, bag and HEPA filters on house vacuum; roughing and HEPA filter house on other processes.
2	0 4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0 5	Monitoring System Continued: collection on filter.
2	0 6	No. of Samples (Approximately): 100; Sample Information 29: Continuous Proportional
2	0 7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code 77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1
2	0 8	
2	0 9	
2	1 0	
2	1 1	
2	1 2	
2	1 3	
2	1 4	
2	1 5	
2	1 6	
2	1 7	
2	1 8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date YY MM DD 28 33; Termination Date YY MM DD 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 4.33 46 E +10 49

UNITS: 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	Units (51)	Brief Comments (52 80)
4	U-234	+2 •41 E -04	C	U	Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

C-Curies, G-Grams, D-Dis/SEC/mL, M-Microcuries/ml; S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

51

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter comparable

Section 0

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Report — Navy-Time Date: YY MM DD (14-19) — Zone: HH MM Z (20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From: YY MM DD (14-19) To: YY MM DD (20-25)

26 / 27 Security Class/ Amended Data Designation: C

Prepared By: T. W. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-15

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 100 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77-79) (80)
			Include Other Information-Detailed comments on the following lines or Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

01	Start-up Date (28-33)	Termination Date (35-40)	41	Discharge/Effl. Point Gross Volume (46-49)	UNITS (50)	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)
3	YY MM DD	YY MM DD	+	8.41 E +09	F		

Units: C-Curies, D-Dis/SEC/ml, G-Grams, M-Microcuries/ml, S-Soluble RCG is appropriate, N-Insoluble RCG is appropriate, U-Solubility is unknown

01	Nuclide Description (27-40)	Amount or Concentration (41-46)		Units (50)	(51)	Brief Comments (52-80)
4	U-234	+ 8.85	E -05	CU		Assay Range depleted to enriched
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
5	Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

52

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. 2 = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op Olc	Area Olc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD) 14-19: A 870101

Report Period To (YY MM DD) 20-25: 871231

26 / 27 Security Class/ Amended Data Designation: C

Prepared By: I. L. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Portable HEPA on
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 100 — Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD) 28-33	Termination Date (YY MM DD) 35-40

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Discharge/Effl. Point Gross Volume (41 46-49)	UNITS (50)	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-76)
+ 8.30E+09			

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27-40)	Amount or Concentration (41-46, 49)	Units (50)	(51)	Brief Comments (52-80)
4	U-234	+ 1 • 10 E -05	CU		Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

C-Curies G-Grams D-Dis/SEC/ml. M-Microcuries/ml.
S-Solubile RCG is appropriate
N-Insoluble RCG is appropriate
U-Solubility is unknown

~~CONFIDENTIAL~~R

53

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discng. M = Liq. Discng. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident: Map No.	Effl. Discng. Point Iden.	Incident Recon Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14 19	20 25	26	20
Ø		M	Y				A	870101	871231	/	C

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Prepared By	Date	Area Code	Phone
I. V. Darling	3/14/88	615	574-1593
Approved By			
T. R. Butz	Date	Area Code	Phone
		615	574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 100 | Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28 33); Termination Date (YY MM DD 35 40)

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
41	50	51 63	64 78
+ 1.47 45 E | +09 49	F		

Nuclide Description (27 40)	Amount or Concentration (41 48)		49	Units (50)	Units (51)	Brief Comments (52 50)
				C-Curies G-Grams	D-Dis/SEC/ML M-Microcuries/ML	S-Soluble RCG is appropriate H-Insoluble RCG is appropriate U-Solubility is unknown
U-234	+ 3.07	E	-06	CU		Assay Range depleted to enriched
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

54

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)	Security Class/Amended Data Designation
2 Ø	3	4 M	5 Y	6	7-9	10-12	13 A	14 870101 19	20 871231 25	26 / 20 C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Field	Entry
1	01	Plant Title: Y-12 Plant
1	02	Facility Title: Building
2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	Operations Generating Pollutants:
2	03	Waste Treatment System: Cyclone, roughing filter, final HEPA filter
2	04	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued: collection on filter.
2	06	No. of Samples (Approximately): 100 — Sample Information: 29 Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code
		Include Other Information-Detailed comments on the following lines of Section 1
2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33; Termination Date (YY MM DD) 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 2.73 46 E 09 49 — UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "1" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	Enet Comments (52–80)
4	U-234	+ 9 • 81 E -06	CU	Assay Range depleted to enriched
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
5	Disper. Factor	+ • E		

C-Curies, G-Grams, D-Dis/SEC/ml., M-Microcuries/ml.
S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

55

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period From (YY MM DD)	To (YY MM DD)	Security Class/ Amended / Data Designation
2 0	3	4 M	5 Y	6	7-9	10-12	13 A	14 19	870101	871231	26 / 28

Keypunch instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Prepared By: I. J. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

DO NOT WRITE IN THIS SPACE

101	21 22	23 SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only) 30
1	0 1	Plant Title: Y-12 Plant
1	0 2	Facility Title: Building
2	0 1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0 2	
2	0 3	
2	0 4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0 5	Monitoring System Continued: collection on filter.
2	0 6	No. of Samples (Approximately): 260 | Sample Information 29: Continuous Proportional
2	0 7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE | Storage/Disposal Facility Class. Code | Storage/Disposal Facility Name Code 77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1
2	0 8	
2	0 9	
2	1 0	
2	1 1	
2	1 2	
2	1 3	
2	1 4	
2	1 5	
2	1 6	
2	1 7	
2	1 8	

SECTION 2 NUCLIDE DATA

DO NOT WRITE IN THIS SPACE

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28 33 | Termination Date (YY MM DD) 35 40 41 +

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 5.20 E +09 (46 49) UNITS (50 51)

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes 51 63 | Section "0" Report Control Codes 64 76

101	Nuclide Description (27 40)	Amount or Concentration (41 48)	(49)	Units (50 51)	Brief Comments (52 80)
4	U-234	+ 7.65	E -05	CU	Assay Range depleted to enriched
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
4		+ .	E		
5	Disper. Factor	+ .	E		

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

56

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Discha. Point Iden.
2	3	4	5	6	7-9	10-12
0		M				086

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Report Period: From (YY MM DD) 14-19 = 870101; To (YY MM DD) 20-25 = 871231

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Security Class/ Amended / Data Designation: 26 = A; 27 = /; 28 = C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Demisters and final B-2000 filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 ; Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE ; Storage/Disposal Facility Class. Code ; Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

01	Start-up Date (YY MM DD) 28-33	Termination Date (YY MM DD) 35-40	41	Discharge/Effl. Point Gross Volume 46-49	UNITS 50	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51-63	Section "0" Report Control Codes 64-78	DO NOT WRITE IN THIS SPACE
3			+	1.79 E +09	T			

01	Nuclide Description 27-40	Amount or Concentration 41-48		Units 50	51	Snet Comments 52-80
4	U-234	+4.67	E -05	CU		Assay Range depleted to enriched
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
5	Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

57

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7897 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.		Incident Report Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
Op. Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Iden.						
2	3	4	5	6	7-9	10-12	13	14 19	20 25	26	20	
0		M	Y				A	870101	871231	C		

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Final HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 — Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

| Storage/Disposal Facility Operational Status | | | | | |

~~CONFIDENTIAL~~

58

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op. Ofc 2 Ø; Area Ofc 3; Contr 4 M; Plant 5 Y; Facility 6; Reference Location dent.: Map No. 7-9; Effl. Dischg. Point Iden. 10-12

Incident Report: Date YY MM DD 14 19; Navy-Time Zone HH MM Z 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From YY MM DD 14 19 A 870101; To YY MM DD 20 25 871231

Security Class/Amended Data Designation 26 / 20 C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

Code	Field	Entry
1	01	Plant Title: Y-12 Plant
1	02	Facility Title: Building
2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	Operations Generating Pollutants:
2	03	Waste Treatment System: Bag house and final HEPA filters
2	04	Monitoring System: Flow controlled stack sampler. Multipoint probe, particulate
2	05	Monitoring System Continued: collection on filter.
2	06	No. of Samples (Approximately): 150; Sample Information: Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code
		Include Other Information-Detailed comments on the following lines of Section 1
2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date YY MM DD 28 33; Termination Date YY MM DD 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 2.37 46 E +09 49

UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes 51 63; Section "0" Report Control Codes 64 78

DO NOT WRITE IN THIS SPACE

Code	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	Bnet Comments (52–80)
4	U-234	+6 •18 E -05	CU	Assay Range depleted to enriched
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
4		+ • E		
5	Disper. Factor	+ • E		

C-Curies, D-Dis/SEC/mL, G-Grams, M-Microcuries/mL, S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

59

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-7997 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewri
competi

Section O

A = Air Effl. B = Air Discha.
M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Accident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19; To (YY MM DD) 20-25

Security Class/ Amended Data Designation: 26 / 27

From (YY MM DD)	To (YY MM DD)	26 / 27
870101	871231	C

Prepared By: J. . Darling
Date: 3/14/88 Area Code: 615 Ph: 574-15

Approved By: T. R. Butz
Date: Area Code: 615 Ph: 574-3

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	Prefilters and final B-2000 filters
2	04	Monitoring System	Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximately) / Sample Information	260 / 29 Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
		Storage/Disposal Facility Class Code / Storage/Disposal Facility Name Code	77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1	
2	08		
2	09		
2	10		
2	11		
2	12		
2	13		
2	14		
2	15		
2	16		
2	17		
2	18		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status	Start-up Date (YY MM DD) 28-33	Termination Date (YY MM DD) 35-40	Discharge/Effl. Point Gross Volume 41-49	UNITS 50	Section "0" Report Control Codes 51-63	Section "0" Report Control Codes 64-78
3			+ 1.37 E +10	F		

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

	Nuclide Description 27-40	Amount or Concentration 41-46		Units 49	50	51	Brief Comments 52-80
4	U-234	+ 5 • 66	E -05		C	U	Assay Range depleted to enricned
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

C-Curies D-Dis/SEC/mL G-Grams M-Microcuries/mL
S-Soluble RCG is applicable
N-Insoluble RCG is applicable
U-Solubility is unknown

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

60

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7287 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes: Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Reference Location Ident. Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Report: Date (YY MM DD) | Navy-Time Zone (HH MM Z)

Keypunch Instr. cc 2-19 (All Cards) cc 20-25 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19 | To (YY MM DD) 20-25

26 Amended Data Designation

Report Period From	Report Period To	Amended Data Designation
870101	871231	C

Prepared By: I. Y. Carlino

Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz

Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22
1	0	1
1	0	2
2	0	1
2	0	2
2	0	3
2	0	4
2	0	5
2	0	6
2	0	7

23 Plant Title: Y-12 Plant

Facility Title: Building

Effluent Release Point or Onsite Waste Discharge Point: Stack

final HEPA filter

Monitoring System: Flow controlled stack sampler, multipoint probe, particulate

Monitoring System Continued: collection on filter.

No. of Samples (Approximately): 260

Sample Information: Continuous Proportional

Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE

Storage/Disposal Facility Class. Code (77) | Storage/Disposal Facility Name Code (79-80)

Include Other Information-Detailed comments on the following lines of Section 1

2	0	8
2	0	9
2	1	0
2	1	1
2	1	2
2	1	3
2	1	4
2	1	5
2	1	6
2	1	7
2	1	8

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 26-33	Termination Date (YY MM DD) 35-40	41	F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume 42-49	UNITS 50	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes 51-63	Section "0" Report Control Codes 64-78	DO NOT WRITE IN THIS SPACE
3			+	3.15 E +09	F			

01	Nuclide Description 27-40	Amount or Concentration 41-46		49	Units 50	51	C-Curies D-Dis/SEC/mL G-Grams M-Microcuries/mL S-Soluble RCG is applicable I-Insoluble RCG is applicable U-Solubility is unknown	Brief Comments 52-80	DO NOT WRITE IN THIS SPACE
4	U-234	+2 • 07	E	-05	CU			Assay Range depleted to enriched	
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
4		+ •	E						
5	Disper. Factor	+ •	E						

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~R

(6)

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-7BIT (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewri compu

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Olc	Area Olc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			13 A

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19; To (YY MM DD) 20-25

Security Class/ Amended Data Designation: 26 / 27 C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-159

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	21	22	23
102	1	0	1	Plant Title: Y-12 Plant
103	1	0	2	Facility Title: Building
104	2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
105	2	0	2	
106	2	0	3	Waste Treatment System: None
107	2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
108	2	0	5	Monitoring System Continued: collection on filter.
109	2	0	6	No. of Samples (Approximately): 260 — Sample Information: 29 Continuous Proportional
110	2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
				Include Other Information-Detailed comments on the following lines of Section 1
111	2	0	8	
112	2	0	9	
113	2	1	0	
114	2	1	1	
115	2	1	2	
116	2	1	3	
117	2	1	4	
118	2	1	5	
119	2	1	6	
120	2	1	7	
121	2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status		F-Cubic Feet K-Gallons L-Litres	M-Cubic Metres P-Pounds			DO NOT WRITE IN THIS SPACE
Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	Discharge/Effl. Point Gross Volume (41)		UNITS (50)	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)
01 3		+ 1.21 (46) E	+09 (49)	T		

Assoc. unplanned releases/discharge point(s) reported on other F-5821.1's as originating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

	Nuclide Description (27-40)	Amount or Concentration (41-49)			Units (50 51)	Brief Comments (52-80)
401 4	U-234	+ 2•11	E	-05	CU	Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

62

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7287 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Type com

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.
2 0	3	4 M	5 Y	6	7-9	10-12

Incident Report Date: YY MM DD (14-19) | Navy-Time Zone: HH MM Z (20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From: YY MM DD (14-19) To: YY MM DD (20-25)

13: A | 26: | 27-30: C | Security Class/ Amended Data Designation

Prepared By	Date	Area Code	
I. W. Darling	3/14/88	615	574-1
Approved By			
T. R. Butz	Date	Area Code	
		615	574-1

DO NOT WRITE IN THIS SPACE

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21 22	23
1	0 1	Plant Title: Y-12 Plant
1	0 2	Facility Title: Building
2	0 1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0 2	Operations Generating Pollutants:
2	0 3	
2	0 4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0 5	Monitoring System Continued: collection on filter.
2	0 6	No. of Samples (Approximately): 260 | Sample Information: 29 Continuous Proportional
2	0 7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE | Storage/Disposal Facility Class Code | Storage/Disposal Facility Name Code (77 79 80)
		Include Other Information-Detailed comments on the following lines of Section 1
2	0 8	
2	0 9	
2	1 0	
2	1 1	
2	1 2	
2	1 3	
2	1 4	
2	1 5	
2	1 6	
2	1 7	
2	1 8	

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	41	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume (46-49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from diffuse facility listed in Section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
3			+	2.63 E +09	F			

01	Nuclide Description (27-40)	Amount or Concentration (41-46)		(49)	Units (50)	(51)	Brief Comments (52-80)
		C-Curies G-Grams S-Soluble RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown / D-Dis/SEC/mL M-Microcuries/mL					
4	U-234	+ 2.89	E	-05	CU		Assay Range depleted to enriched
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
5	Disper. Factor	+ .	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

63

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter composition

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Sent.: Map No.	Effl. Dischg. Point Ident.
2	3	4	5	6	7-9	10-12
Ø		M	Y			

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19: 870101; To (YY MM DD) 20-25: 871231

26: A

Security Class/ Amended Data Designation: 27: C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3641

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Roughing filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 260 — Sample Information (29): Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status	Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	F-Cubic Feet, K-Gallons, L-Litres; M-Cubic Metres, P-Pounds	Discharge/Effl. Point Gross Volume (41-49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
3				+ 3.41 E +09	F				

Nuclide Description (27-40)	Amount or Concentration (41-48)			Units (50)	(51)	Brief Comments (52-80)
U-234	+ 2.54	E	-05	CU		Assay Range depleted to enriched
	+ •	E				
	+ •	E				
	+ •	E			

~~CONFIDENTIAL~~

64

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-7887 (5-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter Compatible

Section O

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report — Date (YY MM DD) 14-19: | Navy-Time (HH MM Z) 20-25:

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period — From (YY MM DD) 14-19: | To (YY MM DD) 20-25:

Security Class/ Amended Data Designation 26/20: A

	From	To	
	870101	871231	C

Prepared By: I. W. Carlino
Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz
Date: | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

101	21-22	23
1	01	Plant Title: Y-12 Plant
1	02	Facility Title: Building
2	01	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	02	Operations Generating Pollutants:
2	03	Waste Treatment System: HEPA filter
2	04	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	05	Monitoring System Continued: collection on filter.
2	06	No. of Samples (Approximately): 280 | Sample Information: Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE | Storage/Disposal Facility Class. Code | Storage/Disposal Facility Name Code (77-80)
		Include Other Information-Detailed comments on the following lines of Section 1
2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status		F-Cubic Feet, K-Gallons, L-Litres; M-Cubic Metres, P-Pounds	Associated releases/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)	
Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	Discharge/Effl. Point Gross Volume (41-49)	UNITS (50)	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-76)
01 3		+ 2.89 E +09	T		

DO NOT WRITE IN THIS SPACE

Nuclide Description (27-40)	Amount or Concentration (41-49)	Units (50)	(51)	Brief Comments (52-80)
01 4 U-234	+ 3.70 E -05	CU		Assay Range depleted to enriched
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
4	+ • E			
5 Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~R

65

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev 11-80) Replaces DOE Form EV-7287 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Accident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19: 870101; To (YY MM DD) 20-25: 871231

26 / 27 Security Class/ Amended Data Designation: C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: None
2	0	4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume (41: +, 42-46: 1.05, 47: E)	UNITS (48: +, 49-50: 10, 51: T)	Associated release/discharge point(s) reported on other F-5821.1's as originating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
3							

01	Nuclide Description (27-40)	Amount or Concentration (41-46: + 4.38 E, 47-49: -05)	Units (50-51: CU)	C-Curies G-Grams D-Dis/SEC/mL M-Microcuries/ml S-Estimate RCG is appropriate N-Inappropriate RCG is appropriate U-Solubility is unknown	Brief Comments (52-80)
4	U-234	+ 4.38 E -05	CU		Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

6.6

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Navy-Time Date	Zone	Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)	Report Period From YY MM DD	To YY MM DD	Security Class/ Amended Data Designation
2 9	3	4 M	5 Y	6	7-9	10-12	YY MM DD 13	HH MM Z 19 20 25		14 A 870101	19 20 871231	26 / 27 C

Prepared By: I. M. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3641

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Final pre-and HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler. Multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28 33); Termination Date (YY MM DD 35 40)

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

01	Discharge/Effl. Point Gross Volume (41)		(46)	(49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51 63)	Section "0" Report Control Codes (64 78)	DO NOT WRITE IN THIS SPACE
03	+	7.04	E	+09	F			

01	Nuclide Description (27 40)	Amount or Concentration (41 46)		(49)	Units (50)	(51)	Brief Comments (52 80)
4	U-234	+ 2.85	E	-05	CU		Assay Range depleted to enriched
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
5	Disper. Factor	+ .	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

67

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (5-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Discharge. M = Liq. Discharge. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discharge Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date (YY MM DD): 14 19 — Navy-Time Zone (HH MM Z): 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From (YY MM DD): 14 19 — To (YY MM DD): 20 25

Security Class/ Amended Data Designation: 26 / 27

13: A — 14 19: 870101 — 20 25: 871231 — 26: C

Prepared By: I. Y. Darling

Date: 3/14/88 — Area Code: 615 — Phone: 574-159

Approved By: T. R. Butz

Date: — Area Code: 615 — Phone: 574-36

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	Final HEPA filters
2	04	Monitoring System	Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximately) / Sample Information	52 / Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
		Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code	77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1	
2	08		
2	09		
2	10		
2	11		
2	12		
2	13		
2	14		
2	15		
2	16		
2	17		
2	18		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status — Start-up Date (YY MM DD): 28 33 — Termination Date (YY MM DD): 35 40

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 1.05 46 E 49 +09 — UNITS: 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	(51)	Brief Comments (52 80)
4	U-234	+ 9.05 E -07	C	U	Assay Range depleted to enriched
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
4		+ . E			
5	Disper. Factor	+ . E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

68

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7287 (3-79)

U.S. DEPARTMENT OF ENERGY
RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op. Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report Date: YY MM DD (14-19) Navy-Time Zone: HH MM Z (20-25)

Keypunch instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From: YY MM DD (14-19) To: YY MM DD (20-25)

26 / 27 Security Class/ Amended Data Designation: A / C

Prepared By	Date	Area Code	Phone
T. V. Darling	3/14/88	615	574-1593
Approved By	**Date**	**Area Code**	**Phone**
T. R. Sutz		615	574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Final HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status — Start-up Date (YY MM DD, 28-33) — Termination Date (YY MM DD, 35-40)

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 6.31 E +08 (41-49) — UNITS: T (50)

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63) — Section "0" Report Control Codes (64-76)

DO NOT WRITE IN THIS SPACE

101	Nuclide Description (27-40)	Amount or Concentration (41-48)			Units (50)		Brief Comments (52-80)
4	U-234	+1 • 83	E	-06	CU		Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

69

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
2 0	3	4 M	5 Y	6	7-9	10-12	13 A	14 19	870101	871231	20 C

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Prepared By: I. J. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System:
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28 33)	Termination Date (YY MM DD 35 40)	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume (41 + 1.06 46 E 49 +10)	UNITS (50 F)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility noted in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51 . 63)	Section "0" Report Control Codes (64 78)	DO NOT WRITE IN THIS SPACE
03							

01	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	(51)	Brief Comments (52 80)
4	U-234	+1 •56 E -05	CU		Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

70

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op. Ofc (2)	Area Ofc (3)	Contr (4)	Plant (5)	Facility (6)	Reference Location ident.: Map No. (7-9)	Effl. Dischg. Point Iden. (10-12)	Incident Report: Date YY MM DD (13-19)	Navy-Time Zone HH MM Z (20-25)	Report Period From YY MM DD (14-19)	To YY MM DD (20-25)	Security Classif. Amended Data Designation (26)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY) (20)
Ø		M	Y				A	870101		871231	C	

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System:
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Collect data from other F-5821.1's) Section "0" Report Control Codes	Section "0" Report Control Codes	DO NOT WRITE IN THIS SPACE
01 3 — 28 33	35 40	41 + 7.46 46 (E) +09 49	50 F	51 63	64 78	

01	Nuclide Description (27 40)	Amount or Concentration (41 46)			Units (49)	C-Curies G-Grams D-Dis/SEC/ml. M-Microcuries/ml. S-Sensitive RCG is appropriate N-Nonetheless RCG is appropriate U-Solubility is unknown (50)	(51)	Brief Comments (52 80)
4	U-234	+	1 • 14	E -05	CU			Assay Range depleted to enriched
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
4		+	•	E				
5	Disper. Factor	+	•	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

71

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7887 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewrite comments

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.		Incident Report Date (YY MM DD)	Incident Report Navy-Time Zone (HH MM Z)	Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)	Report Period From (YY MM DD)	Report Period To (YY MM DD)	Security Class/ Amended Data Designation
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.						
2	3	4	5	6	7-9	10-12	13	14 19	20 25	20	26 / 20	
0		M	Y	X	001	106	A	870101	871231	C		

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-159

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants
2	0	3	Waste Treatment System
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52 / Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	Section "0" Report Control Codes	Section "0" Report Control Codes
01 28 33	35 40 41	4.63 46 E +09 49	50 F	51 63	64 78
03	+				

Associated Release/Discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

01	Nuclide Description (27 40)	Amount or Concentration (41 48)		Units (C-Curies, G-Grams, D-Dis/SEC/cmL, M-Microcuries/mL; S-Solubles RCG is appropriate, M-Insolubles RCG is appropriate, U-Solubility is unknown) (50 51)	Brief Comments (52 80)
4	U-234	+6 • 66 E -06		CU	Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

72

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Otc	Area Otc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Ident.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD 14-19) Navy-Time Zone (HH MM Z 20-25): 13 A 870101 871231 C

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD 14-19) To (YY MM DD 20-25)

26 / 20 Security Class/ Amended Data Designation

Prepared By: T. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-364

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21 22	23
1	0 1	Plant Title: Y-12 Plant
1	0 2	Facility Title: Building
2	0 1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0 2	Operations Generating Pollutants:
2	0 3	Waste Treatment System:
2	0 4	Monitoring System: Flow controlled stack sampler, Multipoint probe, particulate
2	0 5	Monitoring System Continued: collection on filter.
2	0 6	No. of Samples (Approximately): 52 — Sample Information: 29 Continuous Proportional
2	0 7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code (77 79 80)
		Include Other Information-Detailed comments on the following lines of Section 1
2	0 8	
2	0 9	
2	1 0	
2	1 1	
2	1 2	
2	1 3	
2	1 4	
2	1 5	
2	1 6	
2	1 7	
2	1 8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

01	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 26 33)	Termination Date (YY MM DD 35 40)	41	Discharge/Effl. Point Gross Volume (46 49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51 63)	Section "0" Report Control Codes (64 78)	DO NOT WRITE IN THIS SPACE
3			+	1.05 E +10	F			

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

01	Nuclide Description (27 40)	Amount or Concentration (41 46 49)		Units (50)	(51)	C-Curies G-Grams M-Microcuries/mL; S-Soluble RCG is appropriate N-Insoluble RCG is appropriate U-Solubility is unknown	Brief Comments (52 80)
4	U-234	+ 1 • 47	E -05	CU			Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

73

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes: Op Ofc 2 Ø; Area Ofc 3; Contr 4 M; Plant 5 Y; Facility 6; Reference Location Ident.: Map No. 7-9; Effl. Dischg. Point Ident. 10-12

Incident Report: Date YY MM DD 14 19; Navy-Time Zone HH MM Z 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From YY MM DD 14 19; To YY MM DD 20 25

Security Class/Amended Data Designation: 26 / 20 C

13 A 870101 871231

Prepared By: I. J. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Line	Code	Field	Entry
1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	
2	04	Monitoring System	Flow controlled stack sampler. Multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximately)	52
		Sample Information	29 Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
		Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code	77 79 80
		Include Other Information-Detailed comments on the following lines of Section 1	
2	08		
2	09		
2	10		
2	11		
2	12		
2	13		
2	14		
2	15		
2	16		
2	17		
2	18		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date YY MM DD 28 33; Termination Date YY MM DD 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 7.10 46 E +09 49

UNITS 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

Line	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	Units (51)	Brief Comments (52–80)
4	U-234	+ 1.72 E -05	CU		Assay Range depleted to enriched
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
5	Disper. Factor	+ E			

C-Curies, D-Dis/SEC/Mil., G-Grams, M-Microcuries/Mil.
S-Soluble RCG is applicable
N-Insoluble RCG is applicable
U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~ R

14

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-7897 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. S = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op. Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Eff. Dischg. Point Ident.	Incident Report: Date	Navy-Time Zone	Report Period: From	To	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14 19	20 25	26 / 20	
A		M	Y			A	870101		871231	C	

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Prepared By: I. V. Carlino
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	Operations Generating Pollutants:
2	0	3	Waste Treatment System: Cyclone, demister, pre-and final HEPA filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52* Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE Storage/Disposal Facility Class. Code: Storage/Disposal Facility Name Code:
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	* Annual number of samples will be approximately 52 -
2	1	0	- 1987 samples were 8
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

	Storage/Disposal Facility Operational Status: Start-up Date	Termination Date	F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds: Discharge/Effl. Point Gross Volume	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)		DO NOT WRITE IN THIS SPACE
					Section "0" Report Control Codes	Section "0" Report Control Codes	
01 3	YY MM DD 28 33	YY MM DD 35 40 41	46 49	50	51 63	64 78	
			3.42 E +09	F			

	Nuclide Description	Amount or Concentration			Units		Brief Comments
01	27 40	41 46	47	48 49	50	51	52 50
4	U-234	+6 .18	E	-07	CU		Assay Range depleted to enriched
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
5	Disper. Factor	+ .	E				

DO NOT WRITE IN THIS SPACE

(C-Curies, G-Grams, D-Dis/S-E/Cim., M-Microcuries/ml., S-Soluble RCG is appropriate, N-Insoluble RCG is appropriate, U-Solubility is unknown)

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

75

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7287 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2 0	3	4 M	5 Y	6	7-9	10-12

Incident Report Date (YY MM DD): 13 14 19 — Navy-Time Zone (HH MM Z): 20 25

Report Period From (YY MM DD): A 870101 — To (YY MM DD): 871231

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Security Class/ Amended Data Designation: 26 / 27 C

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1693

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

01	21	22	23	30
1	0	1	Plant Title: Y-12 Plant	
1	0	2	Facility Title: Building	
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack	
2	0	2	Operations Generating Pollutants	
2	0	3		
2	0	4	Monitoring System: HEPA filters	
2	0	5	Flow controlled stack sampler, Multipoint probe, particulate collection on filter. Monitoring System Continued	
2	0	6	No. of Samples (Approximately): 52 — Sample Information: 29 Continuous Proportional	
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code: 77 79 80	
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	Associated Release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	
				Section "0" Report Control Codes	Section "0" Report Control Codes
01 28 33	35 40 41	3.26 46 E +10 49	50 51	51 63	64 78

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27 40)	Amount or Concentration (41 46 49)			Units (50 51)	Brief Comments (52 80)
4	U-234	+ 2 • 71	E	-04	CU	Assay Range depleted to enriched
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

76

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19; To (YY MM DD) 20-25

13: A | 14-19: 870101 | 20-25: 871231 | 26: C | 27-30: Security Class/ Amended Data Designation

Prepared By: T. V. Darling

Date: 3/14/88 | Area Code: 615 | Phone: 574-1593

Approved By: T. R. Butz

Date | Area Code: 615 | Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	
2	0	3	
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 150 — Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Associated release/discharge point(s) recorded on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

	Start-up Date (YY MM DD)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
01 3	28-33	35-40	41: + 1.58 E +09 49	50: F	51-63	64-78

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27-40)	Amount or Concentration (41-46)		Units (49-50)		Brief Comments (52-80)
4	U-234	+ 2.94	E -04	C	U	Assay Range depleted to enriched
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
5	Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

77

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev 11-80)
Replaces DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op. Ofc (2)	Area Ofc (3)	Contr (4)	Plant (5)	Facility (6)	Reference Location Ident.: Map No. (7-9)	Effl. Dischg. Point Ident. (10-12)	Incident Report: Date (YY MM DD 14-19)	Navy-Time Zone (HH MM Z 20-25)	Report Period: From (YY MM DD 14-19)	To (YY MM DD 20-25)	Security Class/ Amended Data Designation (26)
0		M	Y	A					870101	871231	C

Keypunch instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Prepared By	Date	Area Code	Phone
I. V. Darling	3/14/88	615	574-1593
Approved By	**Date**	**Area Code**	**Phone**
T. R. Butz		615	574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	
2	0	3	
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 12 — Sample Information: 29 Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Obtained comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

101	Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	Discharge/Effl. Point Gross Volume (41)		(46)	(49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
3			+	1.31	E	+09	T			

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

101	Nuclide Description (27-40)	Amount or Concentration (41-46)		(49)	Units (50)	(51)	Brief Comments (52-80)
4	U-234	+4.96	E	-03	CU		Assay Range depleted to enricned
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
4		+ .	E				
5	Disper. Factor	+ .	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

78

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter correction

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op. Olc	Area Olc	Contr	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2	3	4	5	6	7-9	10-12
Ø		M	Y			

Incident Report Date: YY MM DD (14-19) Navy-Time Zone: HH MM Z (20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From: YY MM DD (14-19) To: YY MM DD (20-25)

Security Class/ Amended Data Designation (26 / 27)

13	14-19	20-25	26 / 27
A	870101	871231	C

Prepared By: I. J. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-159[illegible]

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36[illegible]

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	Plant Title	Y-12 Plant
102	Facility Title	Building
201	Effluent Release Point or Onsite Waste Discharge Point	Stack
202		
203		final HEPA filter
204	Monitoring System	Flow controlled stack sampler. Multipoint probe, particulate
205	Monitoring System Continued	collection on filter.
206	No. of Samples (Approximately) / Sample Information	150 / Continuous Proportional
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
	Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code	(77-79)
	Include Other Information-Detailed comments on the following lines or Section 1	
208		
209		
210		
211		
212		
213		
214		
215		
216		
217		
218		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status					F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds			Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)		DO NOT WRITE IN THIS SPACE
Start-up Date			Termination Date				UNITS	Section "0" Report Control Codes		
YY	MM	DD	YY	MM	DD	Discharge/Effl. Point Gross Volume				
28		33	35		40	41 + 5.89 E +08	49 50 F	51	63 64	78

Nuclide Description	Amount or Concentration			Units		Final Comments
27	41	46	49	50	51	52
U-234	+1 • 29	E	-06	CU		Assay Range depleted to enriched
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
	+ •	E				
Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

79

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-788T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.		Incident Report Date YY MM DD	Navy-Time Zone HH MM Z	Report Period From YY MM DD	To YY MM DD	Security Class/Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14 19	20 25	14 19	20 25	26 / 20
Ø		M	Y				A			870101	871231	C

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-159

Approved By: T. R. Butz

Date Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

01	21	22	23	
1	0	1		Plant Title: Y-12 Plant
1	0	2		Facility Title: Building
2	0	1		Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2		Operations Generating Pollutants:
2	0	3		Waste Treatment System: Final HEPA filter
2	0	4		Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5		Monitoring System Continued: collection on filter.
2	0	6		No. of Samples (Approximately): 150 / Sample Information (29): Continuous Proportional
2	0	7		Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE / Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code 77 79 80
				Include Other Information-Detailed comments on the following lines or Section 1
2	0	8		
2	0	9		
2	1	0		
2	1	1		
2	1	2		
2	1	3		
2	1	4		
2	1	5		
2	1	6		
2	1	7		
2	1	8		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

01	Start-up Date YY MM DD (28–33)	Termination Date YY MM DD (35–40)	41	Discharge/Effl. Point Gross Volume (46, 49)	UNITS (50)	Section "0" Report Control Codes (51–63)	Section "0" Report Control Codes (64–78)
3			+	6.15 E +08	F		

C-Curies G-Grams D-Dis/SEC/ml M-Microcuries/ml S-Soluble RCG is applicable N-Insoluble RCG is applicable U-Solubility is unknown

01	Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	51	Brief Comments (52–80)
4	U-234	+ 1• 29 E -06	C	U	Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

80

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes: Op. Ofc (2)	Area Ofc (3)	Contr (4)	Plant (5)	Facility (6)	Reference Location Ident.: Map No. (7-9)	Effl. Dischg. Point Ident. (10-12)
0		M	Y			

Incident Report Date (YY MM DD, 14-19) / Navy-Time Zone (HH MM Z, 20-25): A 870101 871231 C

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period From (YY MM DD, 14-19) To (YY MM DD, 20-25)

Security Classification (26) / Data Designation (27)

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

DO NOT WRITE IN THIS SPACE

101	Plant Title: Y-12 Plant
102	Facility Title: Building
201	Effluent Release: Stack
202	
203	
204	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
205	Monitoring System Continued: collection on filter.
206	No. of Samples (Approximately): 12 — Sample Information: Continuous Proportional
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code (77 79 80)
	Include Other Information-Detailed comments on the following lines of Section 1
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD, 28-33)	Termination Date (YY MM DD, 35-40)	Discharge/Effl. Point Gross Volume (41-49)	UNITS (50)	Associated release/discharge point(s) reported on other F-5821.1's as originating from disposal facility listed in Section 1 (Obtain data from other F-5821.1's): Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)	DO NOT WRITE IN THIS SPACE
01 03		+ 1.37 E +09	F			

Nuclide Description (27-40)	Amount or Concentration (41-48)		Units (50)	Blank (51)	Brief Comments (52-80)
U-234	+3 •22 E	-03	CU		Assay Range depleted to enriched
	+ • E				
	+ • E				
	+ • E			

~~CONFIDENTIAL~~

81

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter / comestible

Section O

A = Air Effl. B = Air Discng. M = Liq. Discng. L = Liq. Effl.)

Report Control Codes: Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Reference Location Ident.: Map No.	Effl. Discng. Point Ident.
2	3	4	5	6	7-9	10-12
0		M	Y			

Incident Report: Date (YY MM DD) 14-19; Navy-Time Zone (HH MM Z) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From (YY MM DD) 14-19 A 870101; To (YY MM DD) 20-25 871231

26 / 20 Security Class/ Amended Data Designation: C

Prepared By: I. V. Darling

Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz

Date: Area Code: 615 Phone: 574-364

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	Cyclone, HEPA filters
2	04	Monitoring System	Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximately) 150 / Sample Information 29	Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE

Storage/Disposal Facility Class. Code (77) / Storage/Disposal Facility Name Code (79-80)

Include Other Information-Detailed comments on the following lines of Section 1

2	08	
2	09	
2	10	
2	11	
2	12	
2	13	
2	14	
2	15	
2	16	
2	17	
2	18	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD) 28-33; Termination Date (YY MM DD) 35-40

F-Cubic Feet K-Gallons L-Litres; M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 4.07 46 E +09 49; UNITS 50: T

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63); Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27-40)	Amount or Concentration (41-48)	(49)	Units (50)	(51)	Brief Comments (52-80)
4	U-234	+4.32	E-05	C	U	Assay Range depleted to enriched
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
4		+ .	E			
5	Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

82

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter Impossible

Section O

A = Air Effl. B = Air Discng. M = Liq. Discng. L = Liq. Effl.

Report Control Codes					Reference Location Ident.		Incident Report Navy-Time Date	Zone	Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)	Report Period From	To	Security Class/ Amended Data Designation
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discng. Point Iden.	YY MM DD	HH MM Z		YY MM DD	YY MM DD	
2	3	4	5	6	7-9	10-12	13 14 19	20 25		14 19	20 25	26 / 27
0		M	Y				A 870101			871231		C

Prepared By: I. Y. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3641

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	
2	0	3	final HEPA filter
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 100* ; Sample Information: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE ; Storage/Disposal Facility Class. Code ; Storage/Disposal Facility Name Code
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	* Annual number of samples will be approximately 100
2	1	0	
2	1	1	- 1987 samples were approximately 25
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

Start-up Date	Termination Date	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
YY MM DD	YY MM DD				
01 3 26 33	35 40	41 + 3.94 E +09	49 50	51 63	64 78

F-Cubic Feet M-Cubic Metres K-Gallons P-Pounds L-Litres

Associated release/discharge point(s) reported on other F-5821.1's as emanating from storage facility listed in Section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

	Nuclide Description	Amount or Concentration			Units		Brief Comments
01	27 40	41 46		49	50	51	52 80
4	U-234	+ 1 • 03	E	-05	CU		Assay Range depleted to enriched
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
4		+ •	E				
5	Disper. Factor	+ •	E				

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

83

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7397 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes: Op Ofc 2 Ø; Area Ofc 3; Contr 4 M; Plant 5 Y; Facility 6; Reference Location Ident.: Map No. 7-9; Effl. Dischg. Point Iden. 10-12

Incident Report: Date YY MM DD 14 19; Navy-Time Zone HH MM Z 20 25

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Report Period: From YY MM DD 14 19; To YY MM DD 20 25

Security Class/Amended Data Designation: 26 / 20 C

13 A 870101 871231

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

Field	Value
Plant Title	Y-12 Plant
Facility Title	Building
Effluent Release Point or Onsite Waste Discharge Point	Stack
Operations Generating Pollutants	
Monitoring System	Flow controlled stack sampler. Multipoint probe, particulate
Monitoring System Continued	collection on filter.
No. of Samples (Approximately)	150
Sample Information	Continuous Proportional
Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
Storage/Disposal Facility Class. Code	
Storage/Disposal Facility Name Code	

Include Other Information-Detailed comments on the following lines of Section 1

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date YY MM DD 28 33; Termination Date YY MM DD 35 40

F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Discharge/Effl. Point Gross Volume: 41 + 3.68 46 E +09 49

UNITS: 50 F

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes: 51 63

Section "0" Report Control Codes: 64 78

DO NOT WRITE IN THIS SPACE

Nuclide Description (27–40)	Amount or Concentration (41–49)	Units (50)	Units (51)	Brief Comments (52–80)
U-234	+1 • 77 E -03	C	U	Assay Range depleted to enriched
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
	+ • E			
Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

~~CONFIDENTIAL~~

CONFIDENTIAL

84

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter combo

Section O

(A = Air Effl. B = Air Discha. M = Liq. Discha. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discha. Point Iden.
2	3	4	5	6	7-9	10-12
0		M	Y			A

Incident Report Date (YY MM DD) 13-19 | Navy-Time Zone (HH MM Z) 20-25

Report Period From (YY MM DD) 14-19 | To (YY MM DD) 20-25

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Security Class/ Amended Data Designation 26 / 27

	870101	871231

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-15
Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-36

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

101	21	22	23
1	0	1	Plant Title: Y-12 Plant
1	0	2	Facility Title: Building
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Stack
2	0	2	
2	0	3	Waste Treatment System: Pre and final B-2000 filters
2	0	4	Monitoring System: Flow controlled stack sampler, multipoint probe, particulate
2	0	5	Monitoring System Continued: collection on filter.
2	0	6	No. of Samples (Approximately): 52* / Sample Information 29: Continuous Proportional
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: ATMOSPHERE / Storage/Disposal Facility Class. Code / Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	* Annual number of samples will be approximately 52
2	1	0	
2	1	1	- 1987 samples were 8
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status		F-Cubic Feet K-Gallons L-Litres / M-Cubic Metres P-Pounds		Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)		DO NOT WRITE IN THIS SPACE
Start-up Date (YY MM DD) 23-33	Termination Date (YY MM DD) 35-40	Discharge/Effl. Point Gross Volume 41-49	UNITS 50	Section "0" Report Control Codes 51-63	Section "0" Report Control Codes 64-78	
01 3		1.58 E +09	L			

01	Nuclide Description 27-40	Amount or Concentration 41-49	Units 50	51	Brief Comments 52-80
4	U-234	+1 • 46 E -06	CU		Assay Range depleted to enriched
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
5	Disper. Factor	+ • E			

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

CONFIDENTIAL

85

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7387 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.

Report Control Codes: Op Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Dischg. Point Iden.	Incident Report: Date (YY MM DD)	Navy-Time Zone (HH MM Z)	Report Period: From (YY MM DD)	To (YY MM DD)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14-19	20-25	26	20
0		M	Y				A	870101	871231		C

Keypunch Instr. cc 2-19 (All Cards) cc 20-26 (For Section 2 ONLY)

Prepared By: I. V. Darling
Date: 3/14/88 Area Code: 615 Phone: 574-1593

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY *(For New Release Points and Amended Data Only)*

1	01	Plant Title	Y-12 Plant
1	02	Facility Title	Building
2	01	Effluent Release Point or Onsite Waste Discharge Point	Stack
2	02	Operations Generating Pollutants	
2	03	Waste Treatment System	None
2	04	Monitoring System	Flow controlled stack sampler, Multipoint probe, particulate
2	05	Monitoring System Continued	collection on filter.
2	06	No. of Samples (Approximately)	150
		Sample Information 29	Continuous Proportional
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	ATMOSPHERE
		Storage/Disposal Facility Class. Code	
		Storage/Disposal Facility Name Code (77 79 80)	
		Include Other Information-Detailed comments on the following lines of Section 1	
2	08		
2	09		
2	10		
2	11		
2	12		
2	13		
2	14		
2	15		
2	16		
2	17		
2	18		

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status

	Start-up Date (YY MM DD 28 33)	Termination Date (YY MM DD 35 40)	Discharge/Effl. Point Gross Volume (41 46 49)	UNITS (50)	Section "0" Report Control Codes (51 63)	Section "0" Report Control Codes (64 78)
01 3			+ 1.26 E +09	F		

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

	Nuclide Description (27 40)	Amount or Concentration (41 46 49)		Units (50)		Brief Comments (52 80)
01 4	U-234	+ 5.22 E -08		CU		Assay Range depleted to enriched
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
4		+ • E				
5	Disper. Factor	+ • E				

DO NOT WRITE IN THIS SPACE

C-Curies G-Grams D-Dis/SEC/ML M-Microcuries/ML
S-Soluble RCG is appropriate M-Insoluble RCG is appropriate U-Solubility is unknown

CONFIDENTIAL

CONFIDENTIAL

86

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7987 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section 0

(A = Air Effl. B = Air Dischg. M = Liq. Dischg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.	
Op. Ofc.	Area Ofc	Contr.	Plant	Facility	Map No.	Effl. Dischg. Point Iden.
2 Ø	3	4 M	5 Y	6	7-9	10-12

Incident Report Date: YY MM DD (14-19) Navy-Time Zone: HH MM Z (20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period From: YY MM DD (13-19) 870101 To: YY MM DD (20-25) 871231

Security Class/ Amended Data Designation (26 / 27): C

Prepared By: J. D. Gass, II
Date: 3/18/88 Area Code: 615 Phone: 576-1822

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title
1	0	2	Facility Title
2	0	1	Effluent Release Point or Onsite Waste Discharge Point
2	0	2	Operations Generating Pollutants
2	0	3	Waste Treatment System
2	0	4	Monitoring System
2	0	5	Monitoring System Continued
2	0	6	No. of Samples (Approximately) | Sample Information: 29
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge | Storage/Disposal Facility Class. Code | Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status			Discharge/Effl. Point Gross Volume	UNITS	Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)	
Start-up Date (YY MM DD 28-33)	Termination Date (YY MM DD 35-40)	41	46-49	50	Section "0" Report Control Codes (51-63)	Section "0" Report Control Codes (64-78)
		+	2.97 E+09	K		

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

DO NOT WRITE IN THIS SPACE

Nuclide Description (27-40)	Amount or Concentration (41-48)		Units (49)		Brief Comments (52-80)
			C-Curies G-Grams D-Dis/SEC/mL M-Microcuries/mL	S-Soluble RCG is applicable M-Insoluble RCG is applicable U-Solubility is unknown	
Th-232	+6.98	E-03	C	U	
U-234	+1.48	E-01	C	U	Assay Range depleted to enriched
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
	+ .	E			
Disper. Factor	+ .	E			

DO NOT WRITE IN THIS SPACE

CONFIDENTIAL

87

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7997 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

(A = Air Effl. B = Air Dischg. M = Lq. Dischg. L = Lq. Effl.)

Report Control Codes: Op. Oic. (2)	Area Oic (3)	Contr. (4)	Plant (5)	Facility (6)	Reference Location Ident.: Map No. (7-9)	Effl. Dischg. Point Iden. (10-12)
Ø		M	Y			

Incident Report: Date (YY MM DD, 14-19); Navy-Time Zone (HH MM Z, 20-25)

Keypunch Instr. cc 2-19 (All Cards) cc 20-28 (For Section 2 ONLY)

Report Period: From (YY MM DD, 14-19) 8701 01; To (YY MM DD, 20-25) 871231

Security Class/ Amended Data Designation (26/20): C

Prepared By: J. D. Gass, II
Date: 3/18/88 Area Code: 615 Phone: 576-1822

Approved By: T. R. Butz
Date: Area Code: 615 Phone: 574-3647

SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only)

1	0	1	Plant Title
1	0	2	Facility Title
2	0	1	Effluent Release Point or Onsite Waste Discharge Point
2	0	2	Operations Generating Pollutants
2	0	3	Waste Treatment System
2	0	4	Monitoring System
2	0	5	Monitoring System Continued
2	0	6	No. of Samples (Approximately): Sample Information: 29
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge; Storage/Disposal Facility Class. Code; Storage/Disposal Facility Name Code (77 79 80)
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	
2	0	9	
2	1	0	
2	1	1	
2	1	2	
2	1	3	
2	1	4	
2	1	5	
2	1	6	
2	1	7	
2	1	8	

DO NOT WRITE IN THIS SPACE

SECTION 2 NUCLIDE DATA

Storage/Disposal Facility Operational Status: Start-up Date (YY MM DD, 28-33); Termination Date (YY MM DD, 35-40)

F-Cubic Feet K-Gallons L-Litres M-Cubic Metres P-Pounds

Discharge/Effl. Point Gross Volume: + 4.96 E +08 (41-49); UNITS: K (50)

Associated release/discharge point(s) reported on other F-5821.1's as emanating from disposal facility listed in section 1 (Obtain data from other F-5821.1's)

Section "0" Report Control Codes (51-63); Section "0" Report Control Codes (64-78)

DO NOT WRITE IN THIS SPACE

Nuclide Description (27-40)	Amount or Concentration (41-46)		Exponent (47-49)	Units (50)		Brief Comments (52-80)
Th-232	+1.06	E	-03	C	U	
U-234	+4.30	E	-02	C	U	Assay Range Depleted to Enriched
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
	+ .	E				
Disper. Factor	+ .	E				

DO NOT WRITE IN THIS SPACE

C-Curies G-Grams D-Dis/SEC/ml. M-Microcuries/ml.
S-Soluble RCG is applicable
N-Insoluble RCG is applicable
U-Solubility is unknown

CONFIDENTIAL