ChemRisk/Shonka Research Associates, Inc., Document Request Form

(This section to be completed by subcontractor requesting document)

JK Lamb / EMD

Requestor — Document Center (is requested to provide the following document)

Date of request 11/11/96 Expected receipt of document 12/11/96

Document number 94' 00370 Date of document 3/24/94

Title and author (if document is unnumbered)

(This section to be completed by Document Center)

Date request received 11/12/96

Date submitted to ADC 11/13/96

Date submitted to HSA Coordinator 11/12/96

(This section to be completed by HSA Coordinator)

Date submitted to CICO 11/13/96

Date received from CICO 11/18/96

Date submitted to ChemRisk/Shonka and DOE 11/20/96

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

Date document received

Signature

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MARTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831-7134

March 24, 1994

Mr. Thomas S. Tison
Site Manager, K-25 Site Office
Department of Energy
Oak Ridge Operations Office
Post Office Box 2003
Oak Ridge, Tennessee 37831-7136

Dear Mr. Tison:

Submittal of Effluent Information System/On-site Discharge Information Forms for CY 1993

Enclosed are the completed Department of Energy (DOE) Radioactive Effluent/On-site Discharges/Unplanned Releases forms for Calendar Year (CY) 1993 (Enclosure 1) and a corresponding map of the Oak Ridge K-25 Site depicting release locations (Enclosure 2). The forms consist of discharge information for both gaseous and liquid radioactive effluents from within the K-25 Site. Additional information regarding National Emissions Standards for Hazardous Air Pollutants air emissions will be submitted as the data becomes available.

Please transmit the completed forms, map, and electronic form EF5821 (Enclosure 3), to Ms. Anne E. Meikle; Information Systems and Laboratory Management; EG&G Idaho, Inc.; Mail Stop 3904; P. O. Box 1625; Idaho Falls, ID 83415-3904; by the required date of April 1, 1994. A copy of the transmittal letter to EG&G Idaho, Inc., should be submitted to EH-1.

I certify that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

If you have any questions or require additional information, please contact L. G. Shipe at 241-2590.

Sincerely,

Robert S. Eby, Manager
Oak Ridge K-25 Site

TW Selby
for Arvin S. Quist 11-15-96
Date

RSE:nkc

Enclosures 3

cc: J. M. Forstrom
File—RSE

cc/enc: W. D. Dillow (DOE-ORO)
M. E. Mitchell
D. A. Poole/L. G. Shipe
EMD Document Center—RC

The Oak Ridge K-25 Site is managed by Martin Marietta Energy Systems, Inc., for the U.S. Department of Energy under contract DE-AC05-84OR21400.

ENCLOSURE 1

Reference: Letter dated March 24, 1994; subject, Submittal of Effluent Information System/On-site Discharge Information Forms for CY 1993

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

[illegible] Summary

Typewriter compatible

Section O

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

Report Control Codes: Op. Ofc	Area Ofc	Contr	Plant	Facility	Reference Location Ident.: Map No.	Effl. Discng. 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)	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			
O		[illegible]	K	M	001	009	A	930101	931231				

Prepared By: L. G. Shipe — L. G. Shipe
Date: 03/16/94 — Area Code: (615) 241-2590 — Phone:

Approved By: D. A. Poole — Tony Poole
Date: 03/16/94 — Area Code: (615) 241-3591 — Phone:

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

01	21	22	23	80
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: 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)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes	DO NOT WRITE IN THIS SPACE
3	28 33	35 40	41 + UNKN 46 E 49	50	51 63	64 78	

01	27 Nuclide Description 40	41 Amount or Concentration 46	49	Units 50	51	52 Brief Comments 80
4	TC-99	+7 • 6 E	-07	C	U	
4	Cs-137	+2 • 9 E	-09	C	U	
4	Np-237	+3 • 7 E	-07	C	U	
4	Pu-238	+7 • 1 E	-09	C	U	
4	Pu-239	+2 • 2 E	-08	C	U	
4	Pa-234m	+5 • 5 E	-07	C	U	
4	Th-228	+0 • E	00	C	U	
4	Th-230	+1 • 5 E	-08	C	U	
4	Th-232	+1 • 4 E	-10	C	U	
4	U-234	+6 • 3 E	-08	C	U	
4	U-235	+2 • 6 E	-09	C	U	
4	U-238	+4 • 0 E	-10	C	U	
4	Th-234	+1 • 1 E	-06	C	U	
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

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-83)
Previous DOE Form EV-7887 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Savannah River Laboratory

Typewriter compatible

Section O

A = Air Effl. S = Air Discrg.
W = Liq. Discrg. L = Liq. Effl.

Report Control Codes					Reference Location Ident.	
Op Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discrg. Point Iden.
2	3	4	5	6	7-9	10-12
			[illegible]	[illegible]	[illegible]	[illegible]

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

Prepared By: L. H. Dupe
Date: 03/16/94 Area Code: (151) Phone: 241-3590

Approved By: D. A. Poole
Date: 03/16/94 Area Code: (151) Phone: 241-3591

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

Line	Code	Description
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
		Include Other Information-Detailed comments on the following lines of Section 1
2	0 8	No discharge in 1993
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

Line	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)	UNITS (50)	Section "0" Report Control Codes (51–63)	Section "0" Report Control Codes (64–76)
3				+ E			

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

Associated release/discharge points 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

Line	Nuclide Description (27–40)	Amount or Concentration (41–46)	Units (50)	(51)	Brief Comments (52–80)
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
4		+ E			
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/Min, G-Grams, M-Micrograms, S-Soluble RCG is appropriate, N-Insoluble RCG is appropriate, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

DOE F-5821.1 (Rev. 11-83)
Replaces DOE Form EV-7587 (3-78)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

K-1004-D Room 30

Typewriter compatible

Section O

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

Report Control Codes					Reference Location Ident.	
Op. Ofc	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discrg. Point Ident.
2	3	4	5	6	7-9	10-12
O		U	K	M	001	12B

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): 930101 To YY MM DD (20–25): 931231

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

26 / 20 Security Class/ Amended Data Designation

Prepared By: L. G. Shipe — Date 03/16/94 — Area Code (615) 241-2590 — Phone

Approved By: D. A. Poole — Date 03/16/94 — Area Code (615) 241-3591 — Phone

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

1	01	Plant Title
1	02	Facility Title
2	01	Effluent Release Point or Onsite Waste Discharge Point
2	02	Operations Generating Pollutants
2	03	Waste Treatment System
2	04	Monitoring System
2	05	Monitoring System Continued
2	06	No. of Samples (Approximately): 29 — Sample Information
2	07	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	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 (01–3): Start-up Date YY MM DD (26–33); 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): + UNKN E (46–49)

UNITS (50): Section "0" Report Control Codes (51–53); Section "0" Report Control Codes (54–76)

Additional release/discharge points recorded 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 (41–49)	Units (50)	(51)	Brief Comments (52–80)
4	U-234	+-3 • 3 E -11	C	U	
4	U-235	+ 1 • 6 E -12	C	U	
4	U-238	+ 3 • 5 E -11	C	U	
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
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/Vol., G-Grams, M-Milliroentgens/hr.
S-Soluble RCG is applicable, N-Insoluble RCG is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

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

R-1006 Laboratory Hoods

Typewriter compatible

Section Q

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
D		[illegible]	[illegible]	M	001	100

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): 930101 – 931231

13: A

26 / 20: Security Class/ Amended Data Designation

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

Prepared By: L. G. Shipe — Date: 03/16/94 — Area Code: (615) — Phone: 241-2590

Approved By: D. A. Poole — Date: 03/16/94 — Area Code: (615) — Phone: 241-3591

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

01	21	22	23	
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): 29 — Sample Information
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

01	Storage/Disposal Facility Operational Status				Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
	Start-up Date		Termination Date					
	YY (28)	MM 33	YY (35)	MM 40				
3					+ UNKN (46) E (49)	50	51 – 53	64 – 76

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

Associated release/discharge points reported on other F-5821.1's as originating from disposal facility noted in section 1 (Obtain data from other F-5821.1's)

01	Nuclide Description (27–40)	Amount or Concentration (41–46)	(47–49)	Units (50)	(51)	(52)	Brief Comments (60–77)
4	Tc-99	+1.0	E-02	C	U		
4	Cs-137	+3.9	E-11	C	U		
4	Np-237	+2.0	E-09	C	U		
4	Pa-234-m	+5.3	E-08	C	U		
4	Pu-238	+1.6	E-09	C	U		
4	Pu-239	+2.7	E-10	C	U		
4	Th-228	+1.4	E-09	C	U		
4	Th-230	+3.8	E-09	C	U		
4	Th-232	+8.5	E-10	C	U		
4	Th-234	+4.2	E-08	C	U		
4	U-234	+7.0	E-08	C	U		
4	U-235	+3.2	E-09	C	U		
4	U-238	+7.4	E-08	C	U		
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/Min, G-Grams, M-Micrograms/Liter
S-Soluble RCB is applicable, N-Insoluble RCB is applicable, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

DOE F-5821.1 (Rev. 11-83)
Replaces DOE Form EV-789T (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

K-1004-L Labs

Typewriter-compatible

Section O

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

Report Control Codes					Reference Location Identf.		
Op. Ofc.	Area Ofc	Contr.	Plant	Facility	Mae No.	Effl. Discrg. Point Iden.
2	3	4	5	6	7-9	10-12
O			X	M	001	013

Incident Report: Date (YY MM DD, 14–19) 930101; Navy-Time Zone (HH MM Z, 20–25) 231231

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

Report Period: From (YY MM DD) 930101; To (YY MM DD) 931231

Security Class/ Amended Data Designation (26–20): A

Prepared By: L. G. Shipe — Date: 03/16/94 — Area Code: (615) — Phone: 241-3590

Approved By: D. A. Poole — Date: 03/16/94 — Area Code: (615) — Phone: 241-3591

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

01	21	22	23	
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): 29 — Sample Information
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

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 (41–48)	UNITS (49)	Section "0" Report Control Codes (51–63)	Section "0" Report Control Codes (64–76)
3			+ UNKN	E		

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

Assessment Release/Discharge points 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	Nuclide Description (27–40)	Amount or Concentration (41–48)	Units (50)	(51)	Brief Comments (52–80)
4	U-234	+ 2● 9 E -05	C	U	
4	U-235	+ 1● 3 E -06	C	U	
4	U-238	+ 2● 9 E -05	C	U	
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
4		+ ● E			
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/Min/Vol., G-Grams, M-Micrograms/vol.
S-Soluble RCB in suspension, N-Insoluble RCB in suspension, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7587 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

K-1417 PUMP Dewatering

Typewriter compatible

Section O

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

Report Control Codes					Reference Location Ident.		
Op. Ofc.	Area Ofc	Contr	Plant	Facility	Map No.	Effl. Discrg. Point Iden.	
2	3	4	5	6	7-9	10-12	13
[illegible]	[illegible]	[illegible]	M	M	001	014	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 20-38 (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)

Prepared By: L. H. Shipe — L. H. Shipe
Date: 03/16/94 Area Code: (615) Phone: 241-2590

Approved By: D. A. Poole — Tony Poole
Date: 03/16/94 Area Code: (615) Phone: 241-3591

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

Code	Field
101	Plant Title
102	Facility Title
201	Effluent Release Point or Onsite Waste Discharge Point
202	Operations Generating Pollutants
203	Waste Treatment System
204	Monitoring System
205	Monitoring System Continued
206	No. of Samples (Approximately): 29 — Sample Information
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code

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

Code	Comment
208	This process has been discontinued. Please delete this record.
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	Section "0" Report Control Codes	Section "0" Report Control Codes
301						

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 originating from disposal facility listed on section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

Code	Nuclide Description	Amount or Concentration	Units	Brief Comments
401		+ • E		
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	Disper. Factor	+ • E		

Units: C-Curies, D-Dis/Min, G-Grams, M-Micrograms
S-Soluble RCB is applicable
N-Insoluble RCB is applicable
U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

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

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

U-1435 TSCA Incinerator

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 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: L. G. Shipe
2	3	4	5	6	7-9	10-12	13	14 19	20 25		Date: 03/16/94 Area Code: (615) 241-2590 Phone
O		U	K	M	001	050	A	930101	931231		Approved By: D. A. Poole
											Date: 03/16/94 Area Code: (615) 241-3591 Phone

Report Period From YY MM DD / To YY MM DD

Security Class/Amended Data Designation: 26 / 20

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

01	21	22	23	80
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: F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds

Associated release/discharge points 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)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes	DO NOT WRITE IN THIS SPACE
3	28 33	35 40	41 + 7.38 E +09	50	51 63	64 76	

01	27 Nuclide Description 40	41 Amount or Concentration 46	49	50 Units	51	52 Brief Comments 80
4	Tc-99	+ 1 • 1	E -01	C	U	
4	Np-237	+ 5 • 6	E -04	C	U	
4	Cs-137	+ 5 • 0	E -03	C	U	
4	PA-234m	+ 2 • 2	E -01	C	U	
4	Pu-238	+ 2 • 5	E -04	C	U	
4	Pu-239	+ 0 • 0	E 00	C	U	Actual calculated value = -5.8 E-05
4	Th-228	+ 3 • 8	E -04	C	U	
4	Th-230	+ 4 • 9	E -05	C	U	
4	Th-232	+ 1 • 1	E -04	C	U	
4	Th-234	+ 1 • 8	E -02	C	U	
4	U-234	+ 3 • 8	E -03	C	U	
4	U-235	+ 1 • 7	E -04	C	U	
4	U-238	+ 4 • 0	E -03	C	U	
4	Cd-109	+ 7 • 5	E -03	C	U	
4	Ce-139	+ 1 • 5	E -07	C	U	
4	Ce-141	+ 2 • 0	E -04	C	U	
4	Co-57	+ 1 • 2	E -04	C	U	
4	Co-60	+ 4 • 4	E -03	C	U	
4	K-40	+ 4 • 0	E -02	C	U	
4	RU-106	+ 4 • 5	E -03	C	U	
4	TI-201	+ 1 • 1	E -06	C	U	
4	Y-88	+ 3 • 6	E -05	C	U	
4		+ •	E			
4		+ •	E			
4		+ •	E			
5	Disper. Factor	+ •	E			

Units: 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

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

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

K-1420 Valve Disassembly

Typewriter compatible

Section 0

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

Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Map No.	Effl. Dischg. Point Iden.	13	Report Period From YY MM DD	Report Period To YY MM DD
2	3	4	5	6	7-9	10-12	13	14 – 19	20 – 25
O		U	K	M	001	058	A	930101	931231

Report Control Codes / Reference Location Ident.

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)

26 / 20 Security Class/ Amended Data Designation

Prepared By L. G. Shipe (signature) L. G. Shipe

Date	Area Code	Phone
03/16/94	(615)	241-2590

Approved By D. A. Poole (signature) D. A. Poole

Date	Area Code	Phone
03/16/94	(615)	241-3591

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

01	21	22	23 – 80
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	No discharge in 1993
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 (26 – 33)	Termination Date YY MM DD (35 – 40)	41	Discharge/Effl. Point Gross Volume (46 E 49)	UNITS 50	Section "0" Report Control Codes (51 – 63)	Section "0" Report Control Codes (64 – 76)
3			+	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

01	Nuclide Description (27 – 40)	Amount or Concentration (41 – 46 – 49)	Units 50	51	Brief Comments (52 – 80)
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
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

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

K-1008-C Respirator Hood

Typewriter compatible

Section Q

(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)	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
Q		[illegible]	K	M	001	059	A	930101	931231				

Prepared By: L. G. Shipe — L. G. Shipe

Date: 03/16/94 — Area Code: (615) 241-2590 — Phone:

Approved By: D. A. Poole — Tony Poole

Date: 03/16/94 — Area Code: (615) 241-3591 — Phone:

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

01	21	22	23	80
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: 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)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes	DO NOT WRITE IN THIS SPACE
3	28 33	35 40	41 + UNKN 46 E 49	50	51 63	64 76	

01	27 Nuclide Description 40	41 Amount or Concentration 46	49	Units 50	51	52 Brief Comments 80
4	Np-237	+1 • 7 E	-08	C	U	
4	Pu-238	+1 • 3 E	-08	C	U	
4	Pu-239	+2 • 3 E	-09	C	U	
4	Tc-99	+9 • 2 E	-07	C	U	
4	Th-228	+1 • 2 E	-08	C	U	
4	Th-230	+3 • 2 E	-08	C	U	
4	Th-232	+7 • 2 E	-09	C	U	
4	Cs-137	+3 • 3 E	-10	C	U	
4	Pa-234m	+4 • 5 E	-07	C	U	
4	Th-234	+3 • 6 E	-07	C	U	
4	U-234	+5 • 6 E	-07	C	U	
4	U-235	+2 • 6 E	-08	C	U	
4	U-238	+6 • 0 E	-07	C	U	
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				

Units: 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

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

CE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7587 (3-79)

C-1435 Waste Feed Tanks

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	
O		[illegible]	X	M	001	060	A	930101	931231		

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

Prepared By: L. G. Shipe — L. G. Shipe
Date: 03/16/94 — Area Code: (615) 241-2590 — Phone:

Approved By: D. A. Poole — Tony Poole
Date: 03/16/94 — Area Code: (615) 241-3591 — Phone:

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

01	21	22	23	80
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: 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)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes	DO NOT WRITE IN THIS SPACE
3	28 33	35 40	41 + 1.00 E 0	50 F	51 63	64 76	

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

01	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	(51)	Brief Comments (52 80)
4	Cs-137	+ 3 • 4 E -08	C	U	
4	Th-228	+ 1 • 2 E -06	C	U	
4	Th-230	+ 3 • 3 E -06	C	U	
4	Th-232	+ 7 • 5 E -07	C	U	
4	Th-234	+ 3 • 7 E -05	C	U	
4	Pa-234m	+ 4 • 7 E -05	C	U	
4	U-234	+ 5 • 8 E -05	C	U	
4	U-235	+ 2 • 7 E -06	C	U	
4	U-238	+ 6 • 2 E -05	C	U	
4	Np-237	+ 1 • 3 E -06	C	U	
4	Pu-238	+ 1 • 4 E -06	C	U	
4	Pu-239	+ 2 • 4 E -07	C	U	
4	Tc-99	+ 9 • 6 E -05	C	U	
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

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-83)
Previous DOE Form EV-7557 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Building K-31,33 R-114 Removal Project

Typewriter Compatible

Section O

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

Report Control Codes					Reference Location Ident.	
Op. Ofc.	Area Ofc.	Contr.	Plant	Facility	Map No.	Effl. Discrg. Point Iden.
2	3	4	5	6	7-9	10-12
[illegible]	[illegible]	[illegible]	K	M	001	061

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)

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

26 Security Class/ Amended / Data 20 Designation

13 A

930101 931231

Prepared By: L. G. Shipe — Date: 03/16/94 — Area Code: (615) — Phone: 241-2590

Approved By: D. A. Poole — Date: 03/16/94 — Area Code: (615) — Phone: 241-3591

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

101	21	22	23	SECTION 1 NARRATIVE SUMMARY (For New Release Points and Amended Data Only) — 80
1	0	1	Plant Title: Oak Ridge K-25 Site
1	0	2	Facility Title: Buildings K-31, 33
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Purge Vents
2	0	2	Operations Generating Pollutants: R-114 Removal Project
2	0	3	Waste Treatment System
2	0	4	Monitoring System
2	0	5	Monitoring System Continued
2	0	6	No. of Samples (Approximately): 29 — Sample Information
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code — 77 78 80
			Include Other Information-Detailed comments on the following lines of Section 1
2	0	8	Emissions estimated by grab sampling
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			Termination Date				Discharge/Effl. Point Gross Volume			UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
101	YY	MM	DD	YY	MM	DD	41	46		49	50	51–53	64–79
3	28		33	35		40	+	3.9	E	05	F		

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

Additional release/discharge points reported on other F-5821.1's as originating from Storage facility noted 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
101	27–40	41–46		49	50	51	52–80
4	Tc-99	+ 5.44	E	-06	C	U	
4	Np-237	+ 4.64	E	-08	C	U	
4	Cs-137	+ 0.00	E	00	C	U	Actual calculated value =-1.05 E-08
4	Pa-234m	+ 3.31	E	-06	C	U	
4	Pu-238	+ 0.00	E	00	C	U	Actual calculated value =-2.01 E-08
4	Pu-239	+ 7.15	E	-09	C	U	
4	Th-228	+ 8.52	E	-08	C	U	
4	Th-230	+ 0.00	E	00	C	U	Actual calculated value =-1.56 E-08
4	Th-232	+ 2.69	E	-08	C	U	
4	Th-234	+ 0.00	E	00	C	U	Actual calculated value =-6.58 E-07
4	U-234	+ 3.96	E	-08	C	U	
4	U-235	+ 2.04	E	-09	C	U	
4	U-238	+ 2.61	E	-08	C	U	
4	K-40	+ 1.66	E	-06	C	U	
4	Ru-106	+ 0.00	E	00	C	U	Actual calculated value =-8.64 E-07
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/Min/Cim., G-Grams, M-Micrograms, S-Suitable RCB is applicable, N-Inapplicable RCB is applicable, U-Suitability is unknown

DO NOT WRITE IN THIS SPACE

DOE F-5821.1 (Rev. 11-90)
Replaces UCE Form EV-7587 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

K-1430-A Laboratory Hoods

Volunteer comments

Section O

A = Air Effl. D = Air Discrg.
W = Liq. Discrg. L = Liq. Effl.)

Report Control Codes					Reference Location Ident.		
Op. Ofc	Area Ofc	Contr	Plant	Facility	Mea No.	Effl. Discrg. Point Iden.	
2	3	4	5	6	7-9	10-12	13
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	001	062	[illegible]

Incident Report
Date: YY 14 MM DD 19
Navy-Time Zone: HH 20 MM Z 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 / 20 Security Class/ Amended Data Designation

Prepared By: L. G. Shipe — L. G. Shipe
Date: 03/16/94 Area Code: (615) Phone: 241-3590

Approved By: D. A. Poole — Tony Poole
Date: 03/16/94 Area Code: (615) Phone: 241-3591

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

101	021	Plant Title: Oak Ridge K-25 Site
102	021	Facility Title: Building K-1430-A
201	021	Effluent Release Point or Onsite Waste Discharge Point: Laboratory hoods in building K-1430-A
202	021	Operations Generating Pollutants: Laboratory operations
203	021	Waste Treatment System
204	021	Monitoring System
205	021	Monitoring System Continued
206	021	No. of Samples (Approximately): 29 — Sample Information
207	021	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge — Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code
208	021	Include Other Information-Detailed comments on the following lines of Section 1: Emissions estimated by performing engineering calculations.
209	021	
210	021	
211	021	
212	021	
213	021	
214	021	
215	021	
216	021	
217	021	
218	021	

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
301	YY MM DD 28 33	YY MM DD 38 40	+ UNKN E 46 49	50 F	51 63	64 78

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

Assessment measurements/discharge points reported on other F-5821.1's as originating from common facility noted on section 1 (Obtain data from other F-5821.1's)

DO NOT WRITE IN THIS SPACE

	Nuclide Description	Amount or Concentration		Units		Brief Comments
401	27 40	41 46	49	50	51	52 60
402	Tc-99	+1.0	E-07	C	U	
403	Np-237	+3.6	E-09	C	U	
404	Cs-137	+6.7	E-11	C	U	
405	Pa-234m	+0.3	E-08	C	U	
406	Pu-238	+2.8	E-09	C	U	
407	Pu-239	+4.7	E-10	C	U	
408	Th-228	+2.[illegible]	E-09	C	U	
409	Th-230	+6.5	E-09	C	U	
410	Th-232	+1.5	E-09	C	U	
411	Th-234	+7.3	E-08	C	U	
412	U-234	+1.1	E-07	C	U	
413	U-235	+5.3	E-09	C	U	
414	U-238	+1.2	E-07	C	U	
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	Disper. Factor	+	E			

C-Curies, G-Grams, D-Disintegrations, M-Micrograms, S-Actuate RDB in curies, N-Nuclide RDB in curies, U-Solubility in curies

DO NOT WRITE IN THIS SPACE

-1700

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-7587 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section Q

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
O		U	K	L	001	010

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)

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

Security Class/Amended Data Designation 26 / 20

Prepared By: L. G. Shipe — L. G. Shipe

Date: 03/16/94 Area Code: (615) 241-2590 Ph

Approved By: D. A. Poole — Tony Poole

Date: 03/16/94 Area Code: (615) 241-3591 Phone

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

01	21	22	23	80
1	0	1	Plant Title: Oak Ridge K-25 Site	
1	0	2	Facility Title: K-1700 Mitchell Branch	
2	0	1	Effluent Release Point or Onsite Waste Discharge Point: Confluence of Mitchell Branch and Poplar Creek	
2	0	2	Operations Generating Pollutants: Storm water runoff and cooling water	
2	0	3	Waste Treatment System: N/A	
2	0	4	Monitoring System: Automatic Composite Sampler	
2	0	5	Monitoring System Continued	
2	0	6	No. of Samples (Approximately): 12 — Sample Information: 29 one 24-hour composite sample/week - composited into monthly sample	
2	0	7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: Mitchell Branch to Poplar Creek — 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 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)	Discharge/Effl. Point Gross Volume (41 46 49)	UNITS 50	Section "0" Report Control Codes (51 63)	Section "0" Report Control Codes (64 76)
3			+ 1.688 E +08	K		

DO NOT WRITE IN THIS SPACE

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

01	27 Nuclide Description (40)	41 Amount or Concentration (46 49)			50 Units	51	52 Brief Comments (80)
4	Cs-137	+ 1 • 69	E	-03	C	U	
4	Np-237	+ 8 • 29	E	-04	C	U	
4	Pu-238	+ 0 • 00	E	00	C	U	Actual Calculated Pu-238 = -2.98E-04
4	Pu-239	+ 1 • 32	E	-04	C	U	
4	Pa-234m	+ 1 • 59	E	00	C	U	
4	Tc-99	+ 0 • 00	E	00	C	U	Actual Calculted Tc-99 = -2.84E-02
4	U-234	+ 8 • 71	E	-03	C	U	
4	U-235	+ 1 • 38	E	-02	C	U	
4	U-238	+ 5 • 48	E	-03	C	U	
4	Th-234	+ 7 • 60	E	-02	C	U	
4	Th-228	+ 1 • 10	E	-01	C	U	
4	K-40	+ 4 • 60	E	-02	C	U	
4		+ •	E				
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

DOE F-5821.1 (Rev. 11-83)
Replaces DOE Form EV-7?? (?-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. (2)	Area Ofc (3)	Contr. (4)	Plant (5)	Facility (6)	Reference Location Ident.: Map No. (7-9)	Effl. Dischg. Point Iden. (10-12)	13	Report Period From YY MM DD (14-19)	To YY MM DD (20-25)
O			K	L	001	011		930101	931231

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)

26 / 20 Security Class/ Amended Data Designation

Prepared By: L. G. Shipe (signature)
Date: 03/16/94 Area Code: (615) Phone: 241-2590

Approved By: D. A. Poole (signature)
Date: 03/16/94 Area Code: (615) Phone: 241-3591

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

01	21	22	23	30
1	0	1	Plant Title	Oak Ridge K-25 Site
1	0	2	Facility Title	K-1407 Central Neutralization Facility
2	0	1	Effluent Release Point or Onsite Waste Discharge Point	Liquid is diverted to K-1407-J
2	0	2	Operations Generating Pollutants	Storm water runoff, misc. backwash and blowdown water
2	0	3	Waste Treatment System	pH adjustment, settling
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)	K-1407-J CNF Basin
			Include Other Information-Detailed comments on the following lines of Section 1	
2	0	8		No discharges during 1993.
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)	41	Discharge/Effl. Point Gross Volume (46–49)	UNITS (50)	Section "0" Report Control Codes (51–63)	Section "0" Report Control Codes (64–78)	DO NOT WRITE IN THIS SPACE
3			+	E				

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)

C-Curies, G-Grams, D-Dis/Sec/Ml., M-Microcuries/ml.
S-Solubility 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		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
4		+ • E			
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

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7587 (3-79)

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

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

Op. Ofc	Area Ofc	Contr.	Plant	Facility	Mae No.	Effl. Discrg. 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	14-19	20-25	26/20
01			K	G	201	034	L	930101		931231		

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

Prepared By: L. G. Shipe — L. G. Shipe
Date: 03/16/94 — Area Code: (615) — Phone: 241-2590

Approved By: D. A. Poole — Tony Poole
Date: 03/16/94 — Area Code: (615) — Phone: 241-3591

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

101	Plant Title	Oak Ridge K-25 Site
102	Facility Title	K-901-A Pond
201	Effluent Release Point or Onsite Waste Discharge Point	Storm drains entering K-901-A Pond
202	Operations Generating Pollutants	Storm water runoff
203	Waste Treatment System	N/A
204	Monitoring System	Automatic Composite Sampler
205	Monitoring System Continued	
206	No. of Samples (Approximately) 12	Sample Information: one 24-hour sample/week - composited into monthly sample
207	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	K-901-A Pond drains into the Clinch River

Storage/Disposal Facility Class. Code — Storage/Disposal Facility Name Code — 77 78 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)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
301	26 33	36 40	41 + 7.164 E +07	49 50 K	51 63	64 78

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

Additional Radioactive/Discharge quantities required on other F-5821.1's as enumerating form discrete facility noted on 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	+ 6 ● 79	E -04	C	U	
4	U-235	+ 2 ● 62	E -03	C	U	
4	U-238	+ 2 ● 65	E -04	C	U	
4	Cs-137	+ 0 ● 00	E 00	C	U	Actual Calculated Cs-137 = -1.22E-03
4	Np-237	+ 6 ● 43	E -05	C	U	
4	Pu-238	+ 3 ● 06	E -05	C	U	
4	Pu-239	+ 6 ● 22	E -06	C	U	
4	Tc-99	+ 8 ● 42	E -03	C	U	
4	Pa-234m	+ 3 ● 36	E -01	C	U	
4	Ru-106	+ 1 ● 30	E -02	C	U	
4	Th-228	+ 2 ● 74	E -02	C	U	
4	Th-234	+ 7 ● 37	E -02	C	U	
4	Ce-141	+ 5 ● 38	E -02	C	U	
4	Cr-51	+ 9 ● 59	E -04	C	U	
4	I-131	+ 4 ● 07	E -05	C	U	
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
4		+ ●	E			
5	Discr. Factor	+ ●	E			

Curies, Grams, Activity/Curie, Mass/Curie, Solubility RCB is applicable, Insoluble RCB is applicable, Solubility is unknown

DO NOT WRITE IN THIS SPACE

-1007-B

U.S. DEPARTMENT OF ENERGY

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7587 (3-79)

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 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)	Security Class/ Amended Data Designation
2	3	4	5	6	7-9	10-12	13	14	20	26 / 20	
[illegible]		[illegible]	K	[illegible]	001	035	L	930101	931231		

Prepared By: L. G. Shipe — L. G. Shipe
Date: 03/16/94 — Area Code: (615) — Phone: 241-2590

Approved By: D. A. Poole — Tony Poole
Date: 03/16/94 — Area Code: (615) — Phone: 241-3591

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

Line	Field	Entry
1	01	Plant Title: Oak Ridge K-25 Site
1	02	Facility Title: K-1007-B Pond
2	01	Effluent Release Point or Onsite Waste Discharge Point: Storm drains entering into K-1007-B Pond
2	02	Operations Generating Pollutants: Storm water runoff, cooling water
2	03	Waste Treatment System: N/A
2	04	Monitoring System: Automatic Composite Sampler
2	05	Monitoring System Continued
2	06	No. of Samples (Approximately): 12 — Sample Information: one 24-hour composite sample/week - composited into monthly sample
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: K-1007-B Pond discharges to Poplar Creek — 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 + 46 4.824 E 49 +08

UNITS: 50 K

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 76

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

Line	Nuclide Description (27 40)	Amount or Concentration (41 46 49)	Units (50)	(51)	Brief Comments (52 80)
4	Cs-137	+4 • 01 E -03	C	U	
4	Np-237	+4 • 15 E -04	C	U	
4	Pu-238	+0 • 00 E 00	C	U	Actual Calculated Pu-238 = -3.98E-04
4	Pu-239	+0 • 00 E 00	C	U	Actual Calculated Pu-239 = -4.86E-04
4	Pa-234m	+2 • 90 E 00	C	U	
4	Ru-106	+1 • 31 E -03	C	U	
4	Tc-99	+0 • 00 E 00	C	U	Actual Calculated Tc-99 = -2.16E-02
4	U-234	+4 • 26 E -03	C	U	
4	U-235	+1 • 09 E -02	C	U	
4	U-238	+2 • 85 E -03	C	U	
4	Th-234	+2 • 53 E -01	C	U	
4	Th-228	+1 • 16 E -01	C	U	
4	Cd-109	+4 • 60 E -02	C	U	
4	Eu-155	+1 • 64 E -02	C	U	
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

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-80) Replaces DOE Form EV-785T (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter Conventions

Section O

A = Air Effl. D = Air Discrg. M = Liq. Discrg. L = Liq. Effl.)

Report Control Codes					Reference Location Identif.		
Op Ofc	Area Ofc	Contr.	Plant	Facility	Map No.	Effl. Discrg. Point Iden.	
2 3	4	5	6	7-9	10-12	13	
01		K	L	001	056	L	

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)

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

Security Class/ Amended Data Designation (26 / 20)

Prepared By: L. G. Shipe — Date: 03/16/94 — Area Code: (615) — Phone: 241-3590

Approved By: D.A. Poole — Date: 03/16/94 — Area Code: (615) — Phone: 241-3591

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

1	0 1	Plant Title: Oak Ridge K-25 Site
1	0 2	Facility Title: K-1407 Central Neutralization Facility
2	0 1	Effluent Release Point or Onsite Waste Discharge Point: NPDES Outfall 011 (Poplar Creek)
2	0 2	Operations Generating Pollutants: Lab wastes, purged groundwater, TSCA Incinerator Scrubber Blowdown
2	0 3	Waste Treatment System: pH adjustment, settling
2	0 4	Monitoring System: Automatic composite sampler
2	0 5	Monitoring System Continued
2	0 6	No. of Samples (Approximately): 12 — Sample Information: one 24-hour composite sample/week - composited into monthly sample
2	0 7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: Poplar Creek — 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)	Termination Date (YY MM DD)	Discharge/Effl. Point Gross Volume (F-Cubic Feet, K-Gallons, L-Litres, M-Cubic Metres, P-Pounds)	UNITS	Section "0" Report Control Codes	Section "0" Report Control Codes
3			+ 4.023 E +07	K		

Nuclide Description	Amount or Concentration		Units		Brief Comments
Cs-137	+ 6 79	E -04	C	U	
Np-237	+ 4 07	E -04	C	U	
Pu-238	+ 0 00	E 00	C	U	Actual Calculated Pu-238 = -6.12E-06
Pu-239	+ 0 00	E 00	C	U	Actual Calculated Pu-239 = -4.60E-05
Pa-234m	+ 0 00	E 00	C	U	Actual Calculated Pa-234m = -9.19E-02
Ru-106	+ 2 85	E -03	C	U	
Tc-99	+ 6 80	E -03	C	U	
U-234	+ 3 75	E -03	C	U	
U-235	+ 4 67	E -03	C	U	
U-236	+ 5 76	E -04	C	U	
U-238	+ 4 98	E -03	C	U	
Th-234	+ 2 80	E -02	C	U	
Th-228	+ 2 10	E -02	C	U	
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
	+	E			
Disper. Factor	+	E			

C-Curies, G-Grams, D-Dis/MDCMM, M-Microcuries/ml, S-Soluble RCB is approximate, N-Insoluble RCB is approximate, U-Solubility is unknown

DO NOT WRITE IN THIS SPACE

DOE F-5821.1 (Rev. 11-80)
Replaces DOE Form EV-7587 (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.)

Op. Ofc	Area Ofc	Contr.	Plant	Facility	Map No.	Effl. Discng. Point Iden.		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)	Prepared By	Date	Area Code	Phone
2	3	4	5	6	7-9	10-12	13	14 19	20 25		L. G. Shipe	03/16/94	(615)	241-2590
O					001	057	L	930101	931231		Approved By	D. A. Poole		
											D. A. Poole	03/16/94	(615)	241-3591

Report Period From YY MM DD To YY MM DD

Security Class/Amended Data Designation

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

Line	Field	Entry
1	01	Plant Title: Oak Ridge K-25 Site
1	02	Facility Title: K-1203 Sewage Treatment Plant
2	01	Effluent Release Point or Onsite Waste Discharge Point: NPDES Outfall 005 (Poplar Creek)
2	02	Operations Generating Pollutants: Sanitary Sewage TReatment, misc. lab waste
2	03	Waste Treatment System: Extended aeration, filtration, and settling, chlorination/dechlorination
2	04	Monitoring System: Automatic composite sampling
2	05	Monitoring System Continued
2	06	No. of Samples (Approximately): 12 — Sample Information: one-24 composite sample/week - composited into monthly sample
2	07	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge: Poplar Creek — 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: 1.312 E +08 (UNITS: K)

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

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

Line	Nuclide Description	Amount or Concentration			Units		Brief Comments
4	U-234	+ 1 • 47	E	-03	C	U	
4	U-235	+ 5 • 28	E	-03	C	U	
4	U-238	+ 8 • 23	E	-04	C	U	
4	Tc-99	+ 2 • 66	E	-02	C	U	
4	Cs-137	+ 0 • 00	E	00	C	U	Actual Calculated Cs-137 = -1.47E-03
4	Np-237	+ 7 • 98	E	-04	C	U	
4	Pu-238	+ 1 • 81	E	-04	C	U	
4	Pu-239	+ 0 • 00	E	00	C	U	Actual Calculate Pu-239 = -8.28E-05
4	Pa-234m	+ 8 • 06	E	-01	C	U	
4	Ru-106	+ 4 • 39	E	-03	C	U	
4	Th-234	+ 0 • 00	E	00	C	U	Actual Calculated Th-234 = -1.24E-01
4	Th-228	+ 1 • 63	E	-01	C	U	
4	K-40	+ 1 • 89	E	-02	C	U	
4	Ce-143	+ 1 • 49	E	-01	C	U	
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

U.S. DEPARTMENT OF ENERGY

DOE F-5821.1 (Rev. 11-83) Replaces UCE Form EV-7587 (3-79)

RADIOACTIVE EFFLUENT/ONSITE DISCHARGES/UNPLANNED RELEASES

Typewriter compatible

Section O

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

Report Control Codes					Reference Location Ident.	
Op. Ofc.	Area Ofc	Contr.	Plant	Facility	Mon No.	Effl. Discrg. Point Iden.
2	3	4	5	6	7-9	10-12
0	1	[illegible]	K	H	001	063

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)

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

26 / 20 Security Class/ Amended Data Designation: L

Prepared By: L. G. Shipe (L. G. Shipe)
Date: 03/16/94 Area Code: (615) Phone: 241-2590

Approved By: D. A. Poole (Tony Poole)
Date: 03/16/94 Area Code: (615) Phone: 241-3591

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

Line	Code	Field	Entry
1	0 1	Plant Title	Oak Ridge K-25 Site
1	0 2	Facility Title	K-1515-C Sanitary Water Treatment Facility
2	0 1	Effluent Release Point or Onsite Waste Discharge Point	K-1515-C to Watts Bar Reservoir at Clinch River
2	0 2	Operations Generating Pollutants	Sanitary water plant filter backwash
2	0 3	Waste Treatment System	
2	0 4	Monitoring System	Grab Samples taken weekly
2	0 5	Monitoring System Continued	
2	0 6	No. of Samples (Approximately)	12
		Sample Information	29 four weekly samples are composited into 1 monthly sample
2	0 7	Name of Receiving Media or Storage/Disposal Facility Receiving Discharge	Watts Bar Reservoir at Clinch River mile 14.5
		Storage/Disposal Facility Class. Code	77
		Storage/Disposal Facility Name Code	78 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

Line	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
3			+ 8.523 E +07	K		

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

Associated release/discharge points reported on other F-5821.1's as originating from disposal facility noted in section 1 (Obtain data from other F-5821.1's)

Line	Nuclide Description	Amount or Concentration	Units	Brief Comments
4	Cs-137	+ 2.05 E -03	C U	
4	Np-237	+ 0.00 E 00	C U	Actual calculated Np-237 = -7.95E-06
4	Pu-238	+ 0.00 E 00	C U	Actual calculated Pu-238 = -1.31E-05
4	Pu-239	+ 0.00 E 00	C U	Actual calculated Pu-239 = -8.57E-05
4	Pa-234m	+ 4.10 E -01	C U	
4	Ru-106	+ 3.04 E -02	C U	
4	Tc-99	+ 0.00 E 00	C U	Actual calculated Tc-99 = -3.33E-03
4	U-234	+ 4.67 E -04	C U	
4	U-235	+ 4.49 E -03	C U	
4	U-238	+ 2.39 E -04	C U	
4	Th-234	+ 1.32 E -01	C U	
4	Th-228	+ 1.94 E -02	C U	
4	Ce-143	+ 5.18 E -02	C U	
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		

Units: C-Curies, D-Dis/Min/Ml., G-Grams, M-Micromuremrs. S-Soluble RCB to expressive, N-Insoluble RCB to expressible, U-Solubility is unknown

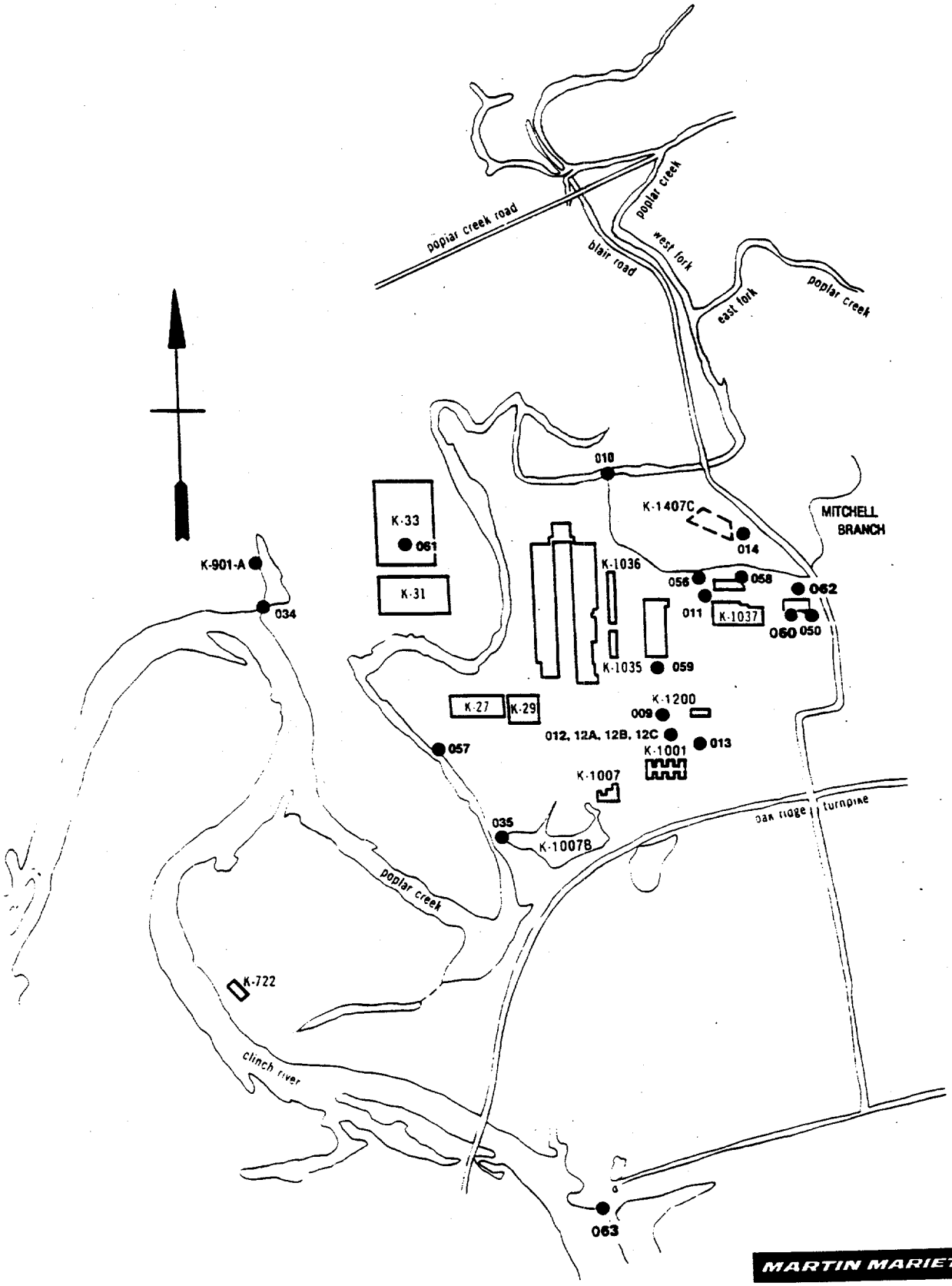
DO NOT WRITE IN THIS SPACE

ENCLOSURE 2

Reference: Letter dated March 24, 1994; subject, Submittal of Effluent Information System/On-site Discharge Information Forms for CY 1993

OAK RIDGE K-25 SITE
EFFLUENT MONITORING REPORT
MAP NUMBER 001

DWG. NO. K/G-90-900-R2



MARTIN MARIETTA