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Date of request 12/6/95 Expected receipt of document

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

Date document received

Signature

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2442

KP-1069/PT1-27

MATERIAL RELEASE REPORT NOS. 224-250

H. G. Grisham  
Uranium Control Department  
OAK RIDGE GASEOUS DIFFUSION PLANT  
Oak Ridge, Tennessee

1956-1957

UNION CARBIDE NUCLEAR COMPANY  
Operating Contractor  
for the U.S. ATOMIC ENERGY COMMISSION

This document has been approved for release  
to the public by:

Sam W. Hall ASQ 12/11/95  
Technical Information Officer Date  
Oak Ridge K-25 Site

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INTER-COMPANY CORRESPONDENCE

~~This document consists of \_\_\_\_\_ copies.~~

UNION CARBIDE NUCLEAR COMPANY  
A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: July 18, 1956

Copies To: Mr. R. H. Dyer  
—Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
. File (H. G. Grisham)

Subject: K-633 Material Release  
Report No. 224

KP-1069, Part 1

Date of Release  
Location of Release  
Balance Area Account Number  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

May 6, 1956  
K-633 Test Loop  
200  
Depleted UF<sub>6</sub>  
"A"  
5 Pounds UF<sub>6</sub>  
Feed Cylinder  
H. A. Klassen

Details: Known loss of known quantity.

On May 6, 1956, a gasket on the valve of a heated cylinder of depleted material which was being prepared for feeding to the test loop blew out and released an estimated quantity of 5 pounds of UF<sub>6</sub> material. Since there was no recovery through decontamination, the total release of 1534 grams uranium and 5 grams uranium-235 will be shown as a measured loss and credited to the 200 account.

H. G. Grisham  
H. G. Grisham

**K25RC**  
NOT TO BE RELEASED FROM  
PLANT RECORDS 11-1034  
HGG:eb

Approved:

S. S. Stief  
S. S. Stief

Classification changed to:

Unclassified  
(level and category)

By authority of:

CG-PGD-4  
(classification guide)

McConight 8/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 7/26/95  
ADD signature (final reviewer) Date  
QA 7/26/95 G.W. Hill

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: July 17, 1956

Copies To: Mr. E. C. Bollinger  
—Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 225

KP-1069, Part 2

Date of Release	June, 1956
Location of Release	K-1131
Balance Area Account Number	550
Material	UF <sub>6</sub>
Class or Assay	"A"
Amount of Material Involved	51,014 Grams Uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During June, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. Using an average of these samples (462 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 51,014 grams uranium and 342 grams uranium-235 was vented. This quantity will be shown as a measured loss and credited to the 550 account.

H. G. Grisham  
H. G. Grisham

**K25RC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

HGG:eb

Approved:

S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

W. D. McCluen 8/12/56  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 9/2/56  
ADC signature (final reviewer) Date

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: August 14, 1956

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 226

KP-1069, Part 3

Date of Release	July, 1956
Location of Release	K-1131
Balance Area Account No.	550
Material	UF6
Class or Assay	"A"
Amount of Material Involved	15,974 grams uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During July, 1956, periodic vent stack gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. Using an average of these samples (140 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 15,974 grams uranium and 106 grams uranium-235 was vented. This quantity will be shown as a measured loss and credited to the 550 account.

~~K25RC~~  
NOT TO BE RELEASED FROM  
PLANT RECORDS AS OF 1964

H. G. Grisham  
H. G. Grisham

Approved:

S. S. Stief  
S. S. Stief

*Sims list*

Classification changed to: Un classified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

W. Wohlfort 8/12/56  
Date

Sam W. Wohlfort 9/2/56  
Date

ADD signature (final reviewer)

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WEX-103 (6-56)

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INTER-COMPANY CORRESPONDENCE

This document consists of 1 pages  
No. 8 of 10 copies, Series A.

# UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: September 17, 1956

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 227

KP-1069, Part 4

KP 1069 PT4 B A



PLANT RECORDS DEPT.
CENTRAL FILES
REC. <u>692372</u>
FILE
X-REF

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

August, 1956  
K-1131  
550  
UF<sub>6</sub>  
0.300%  
100 lbs. UF<sub>6</sub>  
Discharge pump gasket  
L. B. Nothern

Details: Known loss of estimated quantity.

On August 31, 1956, at approximately 8.45 a.m., a material release occurred at the K-1131 feed plant as a result of the failure of the UF<sub>6</sub> pump discharge gasket. The extent of the release was estimated by feed plant personnel to be equivalent to that processed during a period of time of four minutes operation or approximately one hundred pounds of UF<sub>6</sub>. Since there was no recovery, the entire release of 30,672 grams uranium and 92 grams uranium-235 will be shown as a known loss and credited to the 550 account.



HGG:mmk

*Legacy's list*  
H. G. Grisham  
H. G. Grisham

Approved: S. S. Stief  
S. S. Stief

# K25RC

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Classification changed to: Unclassified  
(level and category)

By authority of: CG-P6-D-4  
(classification guide)

ADC or ADD signature (first reviewer) 8/12/94  
Date

Sam W. Wohlfort 9/2/94  
Date

ADD signature (final reviewer)

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WCX-163 (8-55)

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: September 17, 1956

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 228

KP-1069, Part 5

KP 1069 PTS B A



Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

August, 1956

K-1131

550

UF6

"A"

17,189 grams uranium

K-1131 Vent Stack

W. D. McCluen

PLANT RECORDS DEPT.
CENTRAL FILES
REC. <u>692373</u>
FILE
X-REF.
X-REF.

Details: Known loss of calculated quantity.

During August, 1956, periodic vent stack gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. For twenty-one days, K-1131 feed plant operations were concerned with 6-range material, and for the remaining ten days of the month, 3-range material was processed. Using an average result of the samples taken and a flow rate of 50 pounds per hour, a calculated quantity of 17,189 grams uranium and 95 grams uranium-235 was vented. This quantity will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

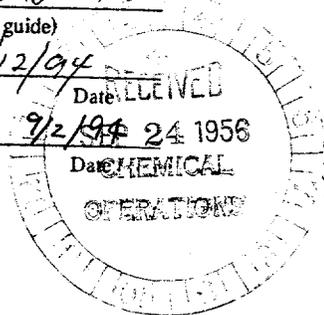
Sam W. Wohlfoit 8/12/94  
ADD or ADD signature (first reviewer) Date

Sam W. Wohlfoit 9/2/94 24 1956  
ADD signature (final reviewer) Date

H. G. Grisham  
H. G. Grisham

Approved: S. S. Stief  
S. S. Stief

HGG:mmk



**K25RC**

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PLANT RECORDS K-1034

*Jim's list*

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 9, 1956

Copies To: Mr. I. C. Flanders  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. J. H. O'Brien  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
File (H. G. Grisham)

Subject: K-1004-L Material Release,  
Report No. 229

KP-1069, Part 6

Date of Release	September 9, 1956
Location of Release	K-1004-L
Balance Area Account No.	540
Material	UF <sub>6</sub>
Class or Assay	"A"
Amount of Material Involved	10 lbs. UF <sub>6</sub>
Source of Information	J. H. O'Brien

Details: Known loss of known quantity.

On September 9, 1956, a material release of UF<sub>6</sub> escaped to the atmosphere from a cylinder of material of known weight. Through a reweighing of the cylinder, the extent of the release was found to be ten pounds UF<sub>6</sub>. Since there was no recovery, this total release of 3,062 grams uranium and 20 grams uranium-235 will be shown as a known loss and credited to the 540 account.

*H. G. Grisham*  
H. G. Grisham

NOTED  
PLANT  
1956

Approved: *S. S. Stief*  
S. S. Stief

HGG:mmk

*Legacy List*

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Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

*ADC* or ADD signature (first reviewer) 8/12/94 Date

*Sam W. Wohlfort* 9/2/94 Date

ADD signature (final reviewer)

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 24, 1956

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 230

KP-1069, Part 7

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

PLANT RECORDS DEPT.
CENTRAL FILES
REC. <u>698720</u>
FILE
X-REF.
X-REF.

KP 1069 PT7 B A



Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

September, 1956  
K-1131  
550  
UF 6  
"A"  
18,594 grams uranium  
K-1131 Vent Stack  
W. D. McCluen

Details: Known loss of calculated quantity.

During September, 1956, periodic vent stack gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. For twelve days of operation, 3-range material was processed and the remaining eighteen days of operation were concerned with 6-range material.

Using the average result of the samples taken for each range of material and a flow rate of 50 pounds per hour, a calculated quantity of 18,594 grams uranium and 93 grams uranium-235 was vented during the monthly operations. This quantity will be shown as a measured loss and credited to the 550 account.

HGG:mmk



H. G. Grisham  
H. G. Grisham

Approved: S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

by authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
Date

ADC or ADD signature (first reviewer) Sam W. Wollfoot 9/2/94  
Date

ADD signature (final reviewer) \_\_\_\_\_ Date

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9/2/94

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 24, 1956

Copies To: Mr. J. W. Arendt  
✓ Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
File (H. G. Grisham)

Subject: K-601 Material Release,  
Report No. 231

KP-1069, Part 8

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-P617-4*  
(classification guide)  
ADS or ADD signature (first reviewer) *Sam W. Wolfart* 8/12/94  
Date 9/2/94  
ADD signature (final reviewer)

September 20, 1956  
K-601  
960  
UF<sub>6</sub>  
0.7115%  
21.10 lbs. UF<sub>6</sub>  
UF<sub>6</sub> trap 6D74-360  
J. W. Arendt

Details: Known loss of calculated quantity.

On September 20, 1956, a UF<sub>6</sub> trap No. 6D74-360, which had been located on the roof of K-1420 and used as a recovery trap for decontamination operations, was received at K-601. Here the trap was placed in hot water in preparation for transferring its contents to a cylinder. Shortly after the trap was heated, its contents reacted violently with a resultant release of 21.10 pounds of UF<sub>6</sub> (6,472 grams uranium and 47 grams uranium-235). Through decontamination, a recovery of 1,799 grams uranium and 14 grams uranium-235 was effected. The difference between the release and the recovery of 4,673 grams uranium and 33 grams uranium-235 will be shown as a measured loss and credited to the 960 account.

*Legacy List*

HGG:mmk

*H. G. Grisham*  
H. G. Grisham

Approved:

*S. S. Stief*  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 24, 1956

Copies To: Mr. R. R. Frazier (2) K25RC  
Mr. J. A. Marshall  
Mr. E. K. Mayer  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
File (H. G. Grisham)

Subject: K-1024 Material Release,  
Report No. 232

KP-1069, Part 9

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Source of Information

October 1, 1956  
K-1024  
640  
UF6  
0.567%  
224 grams uranium  
E. K. Mayer

Details: Known loss of known quantity.

On October 1, 1956, a material release occurred at the sample mixing manifold for line recorder bottles in K-1024 as a result of the rupture of a Hoke valve diaphragm during normal operations. This diaphragm rupture was caused by a slight vibration which resulted from the opening of a nitrogen purge inlet valve. The release extended over a period of five minutes with a total release of 224 grams uranium and 1 gram uranium-235. This quantity will be shown as a measured loss and credited to the 640 account.

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PGD-4*  
*[Signature]* *8/12/94*  
Date  
ADD or ADD signature (first reviewer) *Sam W. Wollfort* *9/2/94*  
Date  
ADD signature (final reviewer)

*H. G. Grisham*  
H. G. Grisham

Approved: *S. S. Stief*  
S. S. Stief

HGG:mmk

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VAULTS 15-A, 16-A, AND 17-A EMPTY DRUM LISTING  
DECEMBER 12, 1956

<u>Material</u>	<u>Container Number</u>	<u>Net Weight or Volume</u>	<u>Grams U</u>	<u>Grams U<sup>235</sup></u>
3-Range:				
3L1	R-3680	40.33 L	6,698	26
6-Range:				
6D2	E-4660	87.04 L	5,901	40
6D2	E-4416	199.68 L	4,952	33
6D2	E-4420	202.24 L	3,741	25
6R2	G-3390	17.00 L	38	0
6S8	G-1177	10.88 L	8	0
6T1	E-266	264.00 lbs.	838	6
6T1	B-337	2.24 L	1	0
<b>Total</b>			<b>15,479</b>	<b>104</b>
9-Range:				
9D4	L-362	8.15 L	152	2
9L1	R-1323	98.27 L	1,278	13
9L1	R-1755	96.29 L	3,698	39
9L1	E-2126	172.00 L	2,425	26
9L1	R-2561	101.56 L	459	6
9L1	R-2568	104.85 L	1,929	27
9L1	R-2697	108.30 L	520	7
9L1	R-2867	26.30 L	218	3
9L1	E-3036	189.40 L	1,600	27
9L1	E-3478	169.92 L	1,518	18
9L1	R-3737	102.38 L	262	4
9L1	R-4063	106.99 L	659	7
9S2	G-121	16.32 L	171	2
9S2	G-461	12.44 L	4	0
9S2	B-720	14.72 L	11	0
9S2	B-744	14.72 L	14	0
9S2	B-808	15.68 L	5	0
9S2	B-809	16.64 L	5	0
9S2	G-852	16.00 L	15	0
9S2	G-853	15.36 L	14	0
9S4	L-125	9.00 L	1	0
<b>Total</b>			<b>14,958</b>	<b>181</b>
10-Range:				
10L1	R-3834	102.38 L	157	5
10L1	R-4205	102.55 L	106	3
10L7	R-3926	87.73 L	155	7
10T1	B-492	9.60 L	2	0
<b>Total</b>			<b>420</b>	<b>15</b>

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<u>Material</u>	<u>Container Number</u>	<u>Net Weight or Volume</u>	<u>Grams U</u>	<u>Grams U<sup>235</sup></u>
11-Range:				
11P6	4562	117.50 L	5	0
11S2	G-35	15.36 L	16	1
11S2	B-756	9.28 L	4	0
11S2	G-1277	14.72 L	21	2
11S2	G-1302	8.96 L	4	0
11T1	G-3164	3.84 L	54	4
11T1	B-645	7.10 L	7	1
11U7	R-3900	59.00 L	17	1
11-	R-4207	153.20 lbs.	206	15
11-	R-2551	244.10 lbs.	<u>663</u>	<u>44</u>
Total			997	68
14-Range:				
1471	L-625	2.00 lbs.	513	112
1471	L-626	1.25 lbs.	<u>321</u>	<u>70</u>
Total			834	182
15-Range:				
1570	G-1864	5.40 lbs.	295	81
16-Range:				
16E4	S-495	7.75 L	<u>1</u>	<u>0</u>
Total Release			<u>39,682</u>	<u>657</u>

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INTER-COMPANY CORRESPONDENCE

# UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: January 9, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 234

KP-1069, Part 11

KP 1069 PTL1 8 A



\*KP 1069 PTL1 8 A\*

PLANT RECORDS DEPT.
CENTRAL FILES
REC. # 453220
FILE
X-REF.
X-REF.

Date of Release	October, 1956
Location of Release	K-1131
Balance Area Account No.	550
Material	UF6
Class or Assay	"A"
Amount of Material Involved	7,036 grams uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During October, 1956, periodic vent stack gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. Using the average result of the samples taken and a flow rate of 30 pounds per hour, a calculated quantity of 7,036 grams uranium and 47 grams uranium-235 was vented during monthly operations. This quantity will be shown as a measured loss and credited to the 550 account.

# K25RC

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

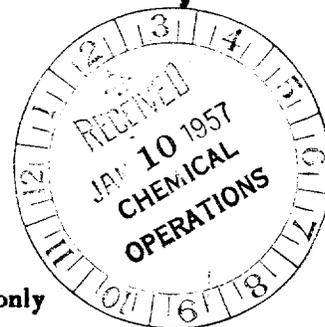
*H. G. Grisham*  
H. G. Grisham

HGG:mmk

Approved: *S. S. Stief*  
S. S. Stief  
Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)  
*[Signature]* 8/12/94  
Date

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: January 9, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
✓ Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 235

KP-1069, Part 12

KP 1069 PT12 8 A



\*KP 1069 PT12 8 A\*

SEARCHED	INDEXED
SERIALIZED	FILED
#53219	
FILE	
X-REF.	
X-REF.	

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

November, 1956

K-1131

550

UF6

"A"

4,439 grams uranium

K-1131 Vent Stack

W. D. McCluen

Details: Known loss of calculated quantity.

During November, 1956, the Process Control Laboratory periodically sampled the K-1131 feed plant vent stack to determine the extent of material which was being vented to the atmosphere. Using the average result of these samples and a flow rate of 30 pounds per hour, a calculated quantity of 4,439 grams uranium and 30 grams uranium-235 was vented during monthly operations. This quantity will be shown as a measured loss and credited to the 550 account.

K25RC

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034 CAL



HGG:mmk

H. G. Grisham  
H. G. Grisham

Approved:

S. S. Stief  
S. S. Stief

Classification changed to:

Unclassified  
(level and category)

By authority of:

CG-PGD-4  
(classification guide)

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ADC or ADD signature (first reviewer)

Date

Sam W. Wahlfort  
ADD signature (final reviewer)

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INTER-COMPANY CORRESPONDENCE

# UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: January 15, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) K25RC  
Mr. W. D. McCluen  
Mr. M. F. Schwenn  
Mr. H. G. P. Snyder  
✓ Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 236

KP-1069, Part 13

# K25RC

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PLANT RECORDS K-1084

PLANT RECORDS
CENTRAL
FILE #53263
X-REF.
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KP 1069 PT13 8 A

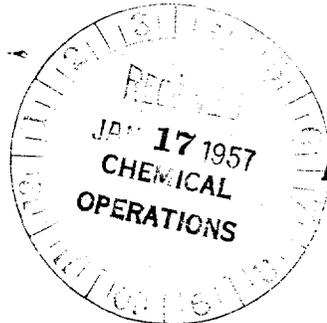


Date of Release	December, 1956
Location of Release	K-1131
Balance Area Account No.	550
Material	UF <sub>6</sub>
Class or Assay	"A"
Amount of Material Involved	14,148 grams uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During December, 1956, the Process Control Laboratory periodically sampled the K-1131 feed plant vent stack to determine the extent of material which was being vented to the atmosphere. Using the average of these sample results and a flow rate of 50 pounds per hour, a calculated quantity of 14,148 grams uranium and 95 grams uranium-235 was vented during monthly operations. This quantity will be shown as a measured loss and credited to the 550 account.

H. G. Grisham  
H. G. Grisham



Approved:

S. S. Stief  
S. S. Stief

HGG:mmk

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

W. D. McCluen 8/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 9/2/99  
Signature (final reviewer) Date

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UNION CARBIDE NUCLEAR COMPANY  
A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: February 15, 1957

Copies To: Mr. J. W. Arendt  
Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
File (H. G. Grisham)

Subject: Vaults 15-A and 16-A  
Material Release,  
Report No. 237

KP-1069, Part 14

Date of Release: January 23, 1957  
Location of Release: Vaults 15-A and 16-A  
Balance Area Account No.: 920  
Material: Carbonate solution,  
Freon and water  
Class or Assay: "C"  
Amount of Material Involved: 48 grams uranium  
Source of Information: J. W. Arendt

Details: Known loss of known quantity.

A recent check of storage vaults 15-A and 16-A revealed that the following drums were empty. The original contents of these empty drums are as follows:

Drum No.	Material	Net Wt. or Vol.	Grams U	Grams U <sup>235</sup>
G-1818	E-4	31.50 lbs.	47	5
G-2073	E-4	28.00 lbs.	1	0
G-1160	S-1	6.68 L.	0	0
Total			48	5

The total original contents of these drums (48 grams uranium and 5 grams uranium-235) were lost and will be shown as a measured loss and credited to the 920 account.

K25RC

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PLANT RECORDS K-1034

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*H. G. Grisham*  
H. G. Grisham

Approved:

*S. S. Stief*  
S. S. Stief

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*ADC* or ADD signature (first reviewer) *8/12/94* Date  
*Sam W. Wolfport* 9/2/98  
ADD signature (final reviewer) \_\_\_\_\_ Date

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UNION CARBIDE NUCLEAR COMPANY  
A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: February 27, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 238

KP-1069, Part 15

7 ← typo??

Date of Release	January, 1957
Location of Release	K-1131
Balance Area Account No.	550
Material	UF6
Class or Assay	"A"
Amount of Material Involved	10,041 grams uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During January, 1957, the Process Control Laboratory periodically sampled the K-1131 feed plant vent stack to determine the extent of material which was being vented to the atmosphere. Using the average of these sample results and a flow rate of 50 pounds per hour, a calculated quantity of 10,041 grams uranium and 67 grams uranium-235 was vented during monthly operations. This quantity will be shown as a measured loss and credited to the 550 account.

K25RC

*H. G. Grisham*  
H. G. Grisham

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PLANT RECORDS K-1034

Approved: *S. S. Stief*  
S. S. Stief

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*W. Wohlfoit* 8/12/94  
Date

*Sam W. Wohlfoit* 9/2/94  
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*W. Wohlfoit*

ADD signature (final reviewer)

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INTERCOMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 5, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 239

KP-1069, Part 16

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

February 22, 1957  
K-1131  
550  
UF6  
"A"  
1,534 grams uranium  
UF6 drain cylinder  
Report KPC-79, A. Varlan

Details: Known loss of estimated quantity.

On February 22, 1957, while filling a UF6 drain cylinder from cold trap "G" in K-1131, a material release of seven minutes duration occurred as a result of faulty packing on the cylinder valve. This release was estimated at five pounds UF6. This quantity of 1,534 grams uranium and 10 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

*Legacy's text*

**K25RC**

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PLANT RECORDS K-1034

*H. G. Grisham*  
H. G. Grisham

Approved:

*S. S. Stief*  
S. S. Stief

HGG:mmk

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(level and category)

By authority of: CG-DGD-4  
(classification guide)

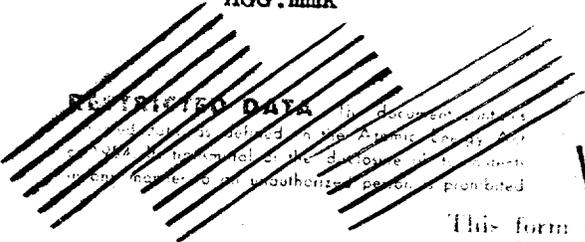
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*Sam W. Wohlfart*  
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8/12/94  
Date  
9/12/94  
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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 12, 1957

Copies To: Mr. J. W. Arendt  
✓ Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
File (H. G. Grisham)

Subject: Vault 15-A Material Release,  
Report No. 240

KP-1069, Part 17

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Source of Information

Discovered February 28, 1957  
Vault 15-A  
920  
As shown below  
"D"  
546 grams uranium  
J. W. Arendt

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-P&D-4*  
(classification guide)  
*J. W. Arendt* 8/12/94  
ADC or ADD signature (first reviewer) Date  
*Sam W. Wolfport* 9/2/94  
ADD signature (final reviewer) Date

Details: Known loss of known quantity.

The following drums were found to be empty when a check of vault 15-A was made on February 28, 1957. The original contents which were lost from these drums were as follows:

Drum No.	Material	Net Wt. or Vol.	Grams U	Grams U-235
5606	15M5	204.30 L	543	159
G-1303	17R3	4.16 L	1	0
G-2292	14F6	23.25 lbs.	2	0
Total			546	159

The total original contents of these drums (546 grams uranium and 159 grams uranium-235) will be shown as a measured loss and credited to the 920 account.

K25RC

*H. G. Grisham*  
H. G. Grisham

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S. S. Stief

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 13, 1957

Copies To: Mr. E. C. Bollinger  
✓ Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 241

KP-1069, Part 18

Date of Release	February, 1957
Location of Release	K-1131
Balance Area Account No.	550
Material	UF <sub>6</sub>
Class or Assay	"A"
Amount of Material Involved	11,336 grams uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During February, 1957, the Process Control Laboratory periodically sampled the K-1131 feed plant vent stack to determine the extent of material which was vented to the atmosphere. Using the average of these sample results and a flow rate of 50 pounds per hour, a calculated quantity of 11,336 grams uranium and 76 grams uranium-235 was vented during monthly operations. This quantity will be shown as a measured loss and credited to the 550 account.

H. G. Grisham  
H. G. Grisham

Approved: S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

W. D. McCluen 8/12/94 Date  
or ADD signature (first reviewer)

Sam W. Wolfport 9/2/94 Date  
ADD signature (final reviewer)

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 15, 1957

Copies To: ✓ Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 242

KP-1069, Part 19

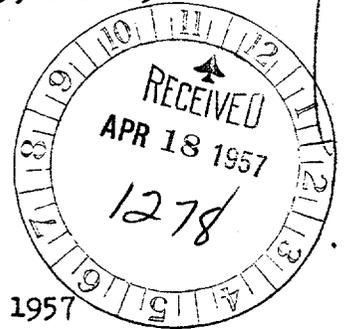
KP 1069 PT19 2 A



\*KP 1069 PT19 2 A\*

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information

PLANT RECORDS DEPT.  
CENTRAL FILES  
REC. 10807  
FILE  
X-REF.  
X-REF.



March, 1957  
K-1131  
550  
UF6  
"A"  
26,545 grams uranium  
K-1131 Vent Stack  
W. D. McCluen

Details: Known loss of calculated quantity.

During March, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack to determine the extent of material which was being vented to the atmosphere. Using the average of these samples and a flow rate of 105 pounds per hour, the total monthly material loss was calculated. For the first fourteen and one-half days of operation, 6-range material (reactor tails) was processed with a material loss of 8,326 grams uranium and 56 grams uranium-235. During the last sixteen and one-half days of the month, 3-range material (D-38) was processed at K-1131 with a calculated material loss of 18,219 grams uranium and 55 grams uranium-235. The total monthly loss of 26,545 grams uranium and 111 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-16D-4  
(classification guide)

Sam W. Wallport 8/12/94  
ADC or ADD signature (first reviewer) Date  
Sam W. Wallport 9/2/94

H. G. Grisham  
H. G. Grisham

HGG:mnk  
ADC signature (final reviewer) Date  
Approved: S. S. Stief  
S. S. Stief

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 15, 1957

Copies To: Mr. E. C. Bollinger  
✓ Mr. R. R. Frazier (2) RC  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
File (H. G. Grisham)

Subject: K-1131 Material Release,  
Report No. 243

KP-1069, Part 20

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment

January 7, 1957

K-1131

550

UF<sub>6</sub>

"A"

6 lbs. UF<sub>6</sub>

Clean-up reactor  
powder seal

Source of Information

S. A. Kingsbury

Details: Known loss of estimated quantity.

On January 7, 1957, due to the failure of a powder seal on a clean-up reactor in K-1131, a material release of an estimated six pounds of UF<sub>6</sub> occurred. This total release of 1,840 grams uranium and 12 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

*Legacy's list*

*H. G. Grisham*  
H. G. Grisham

**K25RC**

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PLANT RECORDS K-1034

*S. S. Stief*  
S. S. Stief

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By authority of: *CG-PGD-4*  
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*W. W. Wohlfort* 8/12/94  
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INTER-COMPANY CORRESPONDENCE

465810

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: May 28, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (2) RC ✓  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 244

KP-1069, Part 21

KP 1069 PT21 3 A



\*KP 1069 PT21 3 A\*

PLANT RECORDS DEPT.
CENTRAL FILES
REC. <u>465824</u>
FILE
X-REF.
X-REF.

Date of Release: April, 1957  
 Location of Release: K-1131  
 Balance Area Account No.: 550  
 Material: UF<sub>6</sub>  
 Class or Assay: A  
 Amount of Material Involved: 34,451 grams Uranium  
 Equipment: K-1131 Vent Stack  
 Source of Information: W. D. McCluen  
 Details: Known loss of calculated quantity

During April, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack to determine the extent of material which was vented to the atmosphere. Using the average of these samples and a flow rate of 105 pounds per hour, the total monthly material loss was calculated. Three-range (D-38) material was processed during the entire month. The calculated total monthly loss of 34,451 grams uranium and 120 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

**K25RC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

H. G. Grisham  
H. G. Grisham

Approved:

W. D. McCluen  
for S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

W. D. McCluen 8/12/94  
Date

Sam W. Wolfert 9/2/94  
Date

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HGGrisham/eb

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: June 26, 1957

Subject: K-1131 Material Release,  
Report No. 245

KP-1069, Part 22

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division File

KP 1069 PT22 1 A  
\*KP 1069 PT22 1 A\*

PLANT RECORDS DEPT.  
CENTRAL FILES  
REC-175105  
FILE  
X-REF.  
X-REF.

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

May, 1957  
K-1131  
550  
UF<sub>6</sub>  
A and B  
35,098 grams uranium  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

During May, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 105 pounds per hour, the total monthly material loss was calculated. Since the K-1131 feed plant was using various types of feed material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
D-38	1 day	0.310	2,591	8
Reactor Tails	18 days	0.670	19,875	133
Normal	12 days	0.7115	12,632	90
	Total		35,098	231

This calculated total monthly loss of 35,098 grams uranium and 231 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

K25RC

*H. G. Grisham*  
H. G. Grisham

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PLANT RECORDS K-1034

Approved:

*S. S. Stief*  
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WCK-163 (8-55)

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300-1

INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: July 25, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
-Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division File

Subject: K-1131 Material Release,  
Report No. 246

KP-1069, Part 23

**K25RC**

NOT TO BE RELEASED FROM  
PLANT RECORDS K-1034

Date of Release:	June, 1957
Location of Release	K-1131
Balance Area Account No.:	550
Material:	UF <sub>6</sub>
Class or Assay:	A and B
Amount of Material Involved:	54,547 grams uranium
Equipment:	K-1131 Vent Stack
Source of Information:	W. D. McCluen
Details:	Known loss of calculated quantity

Classification changed to: *Unclassified* (level and category)  
 authority of: *CG-PGD-4* (classification guide)  
*W. D. McCluen* 6/12/57  
 Date  
 ADD signature (first reviewer) *Sam W. Woodfort* 9/2/94  
 Date  
 ADD signature (final reviewer)

During June, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly material loss was calculated. Since the K-1131 feed plant used different types of feed material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	14 days	0.668	17,211	115
Normal	16 days	0.7115	37,336	266
	Total		54,547	381

This calculated total monthly loss of 54,547 grams uranium and 381 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

UNCLASSIFIED

*H. G. Grisham*  
H. G. Grisham

Approved: *S. S. Stief*  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: August 22, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division File

Subject: K-1131 Material Release,  
Report No. 247

KP-1069, Part 24

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved  
Equipment:  
Source of Information:  
Details:

July, 1957  
K-1131  
550  
UF<sub>6</sub>  
A and B  
47,429 grams Uranium  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

During July, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly material loss was calculated. Since the k-1131 feed plant used different types of feed material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal	6 days	0.7115	7,862	56
Reactor Tails	25 days	0.667	39,567	264
		Total	47,429	320

This calculated total monthly loss of 47,429 grams uranium and 320 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

H. G. Grisham  
H. G. Grisham

Sam W. Wohlfart 8/2/57  
ADC or ADD signature (first reviewer) Date  
Sam W. Wohlfart 9/2/57  
ADD signature (final reviewer) Date  
HGG:ag

Approved: S. S. Stief  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

300-1

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: August 29, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division File

Subject: Vault 16-A Material Release,  
Report No. 248

KP-1069, Part 25

**K25RC**

NOT TO BE LOANED FROM  
1953 - 1957  
PLANT RECORDS K-1034  
Vault 16-A  
920

Date of Release:	
Location of Release:	
Balance Area Account No.:	
Material:	Uranium Chloride
Class or Assay:	Normal 0.7115%
Amount of Material Involved:	285 grams Uranium
Equipment:	Container J-3
Source of Information:	Nelson Weasner
Details:	Known loss of calculated quantity

A container, J-3, of Uranium Chloride material has been stored in Vault 16-A since 1953. Sometime during this period, the material was evidently exposed to the atmosphere and the resultant chemical reaction caused a release of the uranium material. A recent examination of this cylinder revealed a residue of tar and rust from which no recovery could be effected. Since no recovery could be made, the total release of 285 grams uranium and 2 grams uranium-235 will be shown as a measured loss and credited to the 920 account.



*J. F. Hudson for H. G. Grisham*  
H. G. Grisham

Approved: *S. S. Stief*  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

*J. W. Wallfort* 8/12/57 Date

*Sam W. Wallfort* 9/2/57 Date

This form for Inter-Company Correspondence (ADC) by ADD signature (first reviewer)

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ADD signature (final reviewer)

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300-1

INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 8, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division File

Subject: K-1131 Material Release,  
Report No. 249

KP-1069, Part 26

Date of Release:	August, 1957
Location of Release:	K-1131
Balance Area Account No.:	550
Material:	UF <sub>6</sub>
Class or Assay:	"A"
Amount of Material Involved:	20,651 grams Uranium
Equipment:	K-1131 Vent Stack
Source of Information:	W. D. McCluen
Details:	Known loss of calculated quantity

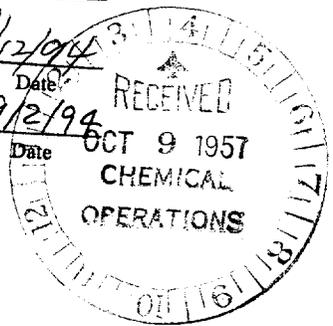
During August, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 50 pounds per hour, the total monthly material loss was calculated. Reactor tails material was processed during the entire month. The calculated total monthly loss of 20,651 grams uranium and 140 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 9/12/94  
ADD signature (final reviewer) Date



[Signature]  
H. G. Grisham

Approved: [Signature]  
S. S. Stief

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 11, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier  
Mr. H. G. Grisham  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 250

KP-1069, Part 27

**K25RC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

September, 1957  
K-1131  
550  
UF<sub>6</sub>  
"A"  
5079 grams uranium  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

The Process Control Laboratory periodically sampled the K-1131 Vent Stack during the month of September, 1957, to determine the extent of material which was vented to the atmosphere. Using an average of these samples and a flow rate of 50 pounds per hour, the total monthly material loss was calculated. Reactor tails material was processed during the entire month. The calculated total monthly loss of 5,079 grams uranium and 34 grams uranium-235 will be shown as a measured loss and credited to the 550 account.



H. G. Grisham  
H. G. Grisham

Approved:

S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

P. Cright 8/12/94  
Date

Sam W. Wadsworth 9/2/94  
Date  
ADD signature (final reviewer)

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KP-1069/PT29-37

**MATERIAL RELEASE REPORT NOS. 252-260**

**H. G. Grisham  
Uranium Control Department  
OAK RIDGE GASEOUS DIFFUSION PLANT  
Oak Ridge, Tennessee**

1957-1958

**UNION CARBIDE NUCLEAR COMPANY  
Operating Contractor  
for the U.S. ATOMIC ENERGY COMMISSION**

This document has been approved for release  
to the public by:

*S. W. Hall* for ASO  
Technical Information Officer  
Oak Ridge K-25 Site  
12/11/95  
Date

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

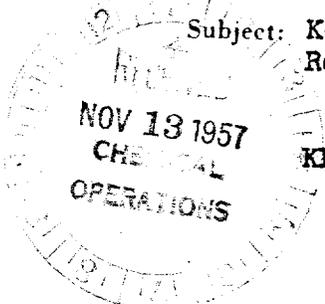
To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: November 11, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report Number 252.



KP-1069, Part 29

Date of Release  
Location of Release  
Balance Area Account No.  
Material  
Class or Assay  
Amount of Material Involved  
Equipment  
Source of Information  
Details

**K25RC**

October, 1957  
K-1131  
550  
UF6  
0.665 and 0.7115%  
14,740 grams uranium  
K-1131 Vent Stack  
Mr. W. D. McCluen  
Known loss of calculated quantity.

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Classification changed to: Unclassified (level and category)  
By authority of: CG-PG-D-4 (classification guide)  
8/12/94 Date  
ADC or ADD signature (first reviewer) Sam W. Wolefort Date 9/9/99  
ADD signature (final reviewer)

During October, 1957, the Process Control Laboratory periodically sampled the K-1131 vent stack in order to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 105 pounds per hour, the total monthly material loss was calculated. Since the K-1131 feed plant used different types of feed material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	6	0.665	2,180	14
Normal	25	0.7115	12,560	89
		Total	14,740	103

This calculated total monthly loss of 14,740 grams uranium and 103 grams U-235 will be shown as a measured loss and credited to the 550 account.

H. G. Grisham  
H. G. Grisham

Approved: S. S. Stief  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

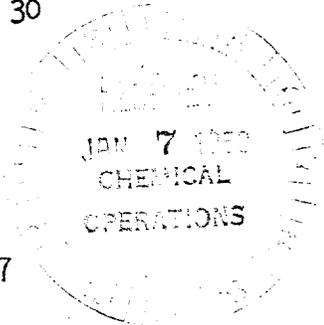
Date: December 31, 1957

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report Number 253.

KP-1069, Part 30

K25RC  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1004



Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

November, 1957  
K-1131  
550  
UF<sub>6</sub>  
Normal  
76.32 pounds UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

During November, 1957, the Process Control Laboratory periodically sampled the K-1131 Vent Stack in order to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly material loss was calculated. Normal material was fed during the entire month. The calculated total monthly loss of 23,409 grams uranium and 167 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

H. G. Grisham  
H. G. Grisham

By authority of: CG-PGD-4  
(classification guide)

W. D. McCluen 5/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfart 9/9/94  
ADD signature (final reviewer) Date

Approved by: S. S. Stief  
S. S. Stief

HGG:ag

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons

Plant: Oak Ridge Gaseous Diffusion

Date: January 9, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report Number 254

KP-1069, Part 31



Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

December, 1957  
K-1131  
550  
UF<sub>6</sub>  
A and B  
60.60 pounds UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

Classification changed to: *Unclassified*  
(level and category)  
authority of: *CG-PGD-4*  
(classification guide)  
*W.D. McCluen* 8/12/94  
Date  
ADD signature (first reviewer) *Sam W. Wohlfart* 9/19/94  
Date  
ADD signature (final reviewer)

During December, 1957, the Process Control Laboratory periodically sampled the K-1131 Vent Stack in order to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly loss was calculated. The K-1131 feed plant processed both normal and reactor tails materials during the month and a breakdown of the monthly loss by types is presented below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal	17	0.7115	9,313	66
Reactor Tails	14	0.650	9,275	60
		Total	18,588	126

This calculated total monthly loss of 18,588 grams uranium and 126 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

*H. G. Grisham*  
H. G. Grisham

Approved by:

*S. S. Stief*  
S. S. Stief

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: January 21, 1958

Copies To: Mr. R. H. Dyer  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Production Division Files

Subject: K-413 Material Release,  
Report No. 255

KP-1069, Part 32

Date of Release:	October 10, 1957
Location of Release:	K-413
Balance Area Account No.:	150
Material:	UF <sub>6</sub>
Class or Assay:	1.516%
Amount of Material Involved:	10 pounds UF <sub>6</sub>
Equipment:	W-2 Pump Discharge Line
Source of Information:	L. H. Gooch
Details:	Known loss of estimated quantity.

On October 10, 1957, a calrod heater burned a hole in the oil line of the mist filter at the W-2 pump which resulted in a material release. The mist filter was replaced on the pump, but was not welded. Apparently, there was a cold PG plug in the pump discharge line which warmed up and broke loose, releasing more material. The pump was valved into vent line while maintenance made up a wooded plug. The area was decontaminated but only 26 grams uranium was recovered. The total material released was estimated to be 3,067 grams uranium and 46 grams uranium-235. The difference between the total amount released and the quantity recovered (3,041 grams uranium and 46 grams uranium-235) will be shown as a measured loss and credited to the 150 account.

*Legacy List*

*H. G. Grisham*  
H. G. Grisham

HGG:ag

Approved by: *S. S. Stief*  
S. S. Stief

Classification changed to: *Unclassified*  
(level and category)

By authority of: *CG-PGD-4*  
(classification guide)

*Sam W. Wohlfort* 8/12/94  
ADC or ADD signature (first reviewer) Date

*Sam W. Wohlfort* 9/19/94  
ADD signature (final reviewer) Date

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

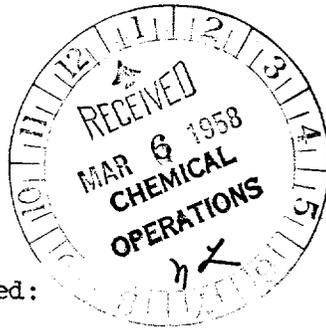
Date: March 4, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report Number 257

KP-1069, Part 34

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:



January, 1958  
K-1131  
550  
UF<sub>6</sub>  
Normal  
117.85 pounds of UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

Classification changed to: *Unclassified*  
(level and category)  
Authority of: *CG-PGD-4*  
(classification guide)  
*W. D. McCluen* 8/12/94  
Date  
Signature of ADD or signature (first reviewer)  
*Sam W. Wolfport* 9/9/94  
Date  
Signature (final reviewer)

During January, 1958, the Process Control Laboratory periodically sampled the K-1131 Vent Stack in order to determine the extent of material which was vented to the atmosphere. Since the feed plant processed only normal material during the month, the total monthly loss was calculated by using an average of the sample results and a flow rate of 120 pounds per hour. This calculated monthly loss of 36,147 grams uranium and 257 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

*H. G. Grisham*  
H. G. Grisham

Approved by: *S. S. Stief*  
S. S. Stief

K-1131  
K-257  
RECEIVED  
MAY 15 1958  
MATERIALS DIVISION

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INTER COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 5, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC

Subject: K-1131 Material Release,  
Report Number 258

Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. B. H. Thompson  
Mr. A. Varlan  
Production Division Files



KP-1069, Part 35

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

February, 1958  
K-1131  
UF<sub>6</sub>  
550  
A and B  
100.26 pounds of UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PG-D-4*  
(classification guide)  
*W. D. McCluen* 8/13/94  
ADC or ADD signature (first reviewer) Date  
*Sam W. Wollfort* 9/19/94  
ADD signature (final reviewer) Date

During February, 1958, the Process Control Laboratory periodically sampled the K-1131 Vent Stack in order to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly loss was calculated. The K-1131 feed plant processed both normal and reactor tails material during the month. A breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal	21.5 Days	0.7115	25,068	178
Reactor Tails	6.5 Days	0.650	5,684	37
	Total		30,752	215

This calculated total monthly loss of 30,752 grams uranium and 215 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

UNCLASSIFIED

*H. G. Grisham*  
H. G. Grisham

Approved by: *S. S. Stief*  
S. S. Stief

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 15, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 259  
KP-1069, Part 36

Date of Release:	March, 1958
Location of Release:	K-1131
Material:	UF <sub>6</sub>
Balance Area Account No.:	550
Class or Assay:	"B"
Amount of Material Involved:	67.85 pounds of UF <sub>6</sub>
Source of Information:	W. D. McCluen
Details:	Known loss of calculated quantity

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during March, 1958, in order to determine the extent of material which was vented to the atmosphere. The feed plant processed normal material for the entire month. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly loss of 20,811 grams uranium and 148 grams uranium-235. This total monthly venting loss will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 9/9/94  
ADD signature (final reviewer) Date

[Signature]  
H. G. Grisham

Approved by: [Signature]  
S. S. Stief

HGG:ag

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 16, 1958

Copies To: Mr. R. H. Dyer  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Production Division Files

Subject: K-631 Material Release,  
Report No. 260

KP-1069, Part 37

Date of Release: January 24, 1958

Location of Release: K-631

Balance Area Account No.: 120

Material: UF<sub>6</sub>

Class or Assay: "A"

Amount of Material Involved: 15 pounds of UF<sub>6</sub>

Equipment: Drain line header valve

Source of Information: R. H. Dyer

Details: Known loss of estimated quantity

On January 24, 1958, while maintenance was working on the leaking valve at #1 drain position, a release occurred near the #2 drain position as a result of a rupture in the bellows of the block valve in the new drain line header. The area was decontaminated but no accountable recovery effected. The loss was estimated to be 15 pounds of UF<sub>6</sub> by supervisory personnel. The total release of 4601 grams uranium and 18 grams uranium-235 will be shown as a known loss and credited to the 120 account

*Legacy list*

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

H. G. Grisham  
H. G. Grisham

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 12/11/95  
ADD signature (final reviewer) Date

[Signature]  
S. S. Stief

HGG:ag

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MATERIAL RELEASE REPORT NOS. 262-268

H. G. Grisham  
Uranium Control Department  
OAK RIDGE GASEOUS DIFFUSION PLANT  
Oak Ridge, Tennessee

1958

UNION CARBIDE NUCLEAR COMPANY  
Operating Contractor  
for the U.S. ATOMIC ENERGY COMMISSION

This document has been approved for release  
to the public by:

*Ray W. Hall* on ASD 12/11/95  
Technical Information Officer Date  
Oak Ridge K-25 Site



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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 25, 1958

Copies To: Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Mr. H. G. P. Snyder  
Production Division Files

Subject: K-33 Feed Rm. Material Release,  
Report No. 263

KP-1069, Part 40

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

January 12, 1958  
K-33 Feed Room  
UF<sub>6</sub>  
125  
0.7074%  
15 pounds of UF<sub>6</sub>  
Cylinder No. W-558  
R. L. Newton  
Known loss of known quantity

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-P&D-7*  
(classification guide)  
*R. L. Newton* 5/12/94  
ADC or ADD signature (first reviewer) Date  
*Sam W. Wolfport* 9/9/99  
DD signature (final reviewer) Date

A release occurred in the K-33 feed room at the A-4 furnace position on the 4 - 12 shift, January 12, 1958. The leak occurred at the pigtail connection at the cylinder valve of the 2.5 ton full reactor tails feed cylinder No. W-558. This cylinder had been placed in the A-4 furnace for heating during the preceding shift.

Although the operator did have trouble securing a proper fit of the pigtail on the cylinder, he eventually obtained a satisfactory leak rate before heating the cylinder. Approximately three hours later, the feed room operator noticed the room was full of smoke. Safety equipped operators closed all cylinder valves and de-energized the heaters. All feeds were cut off and remained off for about 25 minutes. The leak was discovered to be at the cylinder in the A-4 furnace and fifteen pounds UF<sub>6</sub> had been released before the valve could be closed.

This release was probably caused by an improper fit of the pigtail on the cylinder. However, even though the pigtail might have been tight as it passed the leak rate test, it could have been loosened due to thermal expansion of the fittings as the cylinder was heated.

Since no accountable recovery was effected, the total release of 4601 grams uranium and 33 grams uranium-235 will be shown as a measured loss and credited to the 125 account.

*Legacy list*

HGG:ag

*H. G. Grisham*  
H. G. Grisham

UNCLASSIFIED

Approved by:

*S. S. Stief*  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons

Plant: Oak Ridge Gaseous Diffusion

Date: May 8, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release  
Report No. 264

KP-1069, Part

Date of Release: April, 1958  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 558  
Class or Assay: A and B  
Amount of Material Involved: 81.79 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-P6-D-4*  
(classification guide)  
ADC or ADD signature (first reviewer) *Sam Wohlfoot* Date *8/12/94*  
ADD signature (final reviewer) *Sam Wohlfoot* Date *9/19/94*

The K-1131 Vent Stack was sampled periodically by the Process Control Laboratory during April, 1958, in order to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the total monthly loss was calculated. The K-1131 feed plant processed both normal and reactor tails material during the month. A breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	5 days	0.650	4,107	27
Normal	25 days	0.7115	20,980	149
	Total		25,087	176

This calculated total monthly loss of 25,087 grams uranium and 176 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

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*H. G. Grisham*  
H. G. Grisham

Approved by:

*S. S. Stief*  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: June 23, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 265

KP-1069, Part 42

Date of Release:  
Location of Release  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

May, 1958  
K-1131  
UF<sub>6</sub>  
550  
A and B  
79.32 lbs. UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated  
quantity.

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *C. G. P. D. - 4*  
(classification guide)  
*W. D. McCluen* 8/12/54  
ADC or ADD signature (first reviewer) *Sam W. Wohlfert* 9/19/54  
signature (final reviewer) \_\_\_\_\_  
Date \_\_\_\_\_

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during May 1958, in order to determine the extent of material which was vented to the atmosphere. Using an average of the sample results and a flow rate of 120 pounds per hour, the venting loss was calculated. The K-1131 feed plant processed both normal and reactor tails material during the month. A breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	19 days	0.650	11,079	72
Normal	12 days	0.7115	13,250	94
	Total		24,329	166

This calculated total monthly loss of 24,329 grams uranium and 166 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

**K25RC**

*H. G. Grisham*  
H. G. Grisham

NOT TO BE LOANED FROM  
PLANT RECORDS *6-1934*

*S. S. Stief*  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: June 23, 1958

Copies To: Mr. J. W. Arendt  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Production Division Files

Subject: 'Storage Vault Material Release,  
Report No. 266

KP-1069, Part 43

**K25RC**

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:

May 6, 1958  
Vaults 15-A, 16-A, and 17-A

NOT TO BE LOANED FROM

PLANT RECORDS K-1034

Freon and Water and  
Trichlorethylene  
Class "C"

Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

271 grams uranium  
Drums as listed below  
M. S. Smedley  
Known loss of known quantity.

During an inventory of the storage vaults on May 6, 1958, eight drums were found to be empty as a result of leaks which have developed from the corrosive action of the contents of the drums. Listed below are the drums which were found to be empty and the original contents which were released:

Drum Number	Material Type	Quantity of Material	Material Assay	Grams Uranium	Grams U-235
6222	10 E4	71.25 l.	2.756	28	1
G-1545	10 E4	5.12 l.	3.014	3	-
1870	10 TL	0.96 l.	2.068	-	-
G-2080	10 TL	54.00 lbs.	2.140	196	4
B-215	10 TL	4.16 l.	3.083	5	-
9473	10 TL	206.80 l.	2.241	39	1
Total				271	6

Since no recovery was effected, this total loss of 271 grams uranium and 6 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

H. G. Grisham  
Date: 8/12/58  
H. G. Grisham

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Signature (first reviewer): Sam W. Wohlfort Date: 9/9/54  
Signature (final reviewer): S. S. Stief Date: 9/9/54

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: July 21, 1958

Copies To: Mr. J. W. Arendt  
Mr. R. R. Frazier (RC)  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Production Division Files

Subject: Storage Vault Material Release,  
Report No. 267

KP-1069, Part 44

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
  
Class or Assay:  
Amount of Material Involved:

July, 1958  
Storage Vaults  
920  
Solutions containing Aluminum  
Oxide and Chloride Solution  
Class "C"  
Al Oxide - 103.00 pounds  
Chloride Sol. - 108.86 liters  
Containers as listed below.  
M. S. Smedley  
Known loss of Known quantity.

Equipment:  
Source of Information:  
Details:

During an inventory of the storage vaults in early July, fifteen containers of aluminum oxide and nine containers of chloride solution were found to be empty due to leaks which had developed as a result of the corrosive action of the contents of the container.. The containers which were found to be empty were: G-238, G-756, G-757, B-794, B-810, G-925, G-1073, G-1074, G-1613, H-4188, H-4190, H-4191, H-4193, H-4194, H-4196, H-4197, H-4198, H-4199, H-4200, H-4201, H-4202, H-4205, H-4207, and H-4208.

These containers originally contained 68 grams uranium and no grams uranium-235. This quantity will be shown as a measured loss and credited to the 920 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

Sam W. Wohlfort 8/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 9/9/94  
ADD signature (final reviewer) Date

E. L. Clay  
for H. G. Grisham

HGG:ag

Approved by: S. S. Stief  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: July 16, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier RC  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 268

KP-1069, Part 45

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PG-D-4*  
(classification guide)  
*W. D. McCluen* 8/12/54 Date  
ADC or ADD signature (final reviewer)  
*Sam W. Wohlfahrt* 9/9/54 Date  
ADD signature (final reviewer)

June, 1958  
K-1131  
UF<sub>6</sub>  
558  
"A" and "B"  
64.46 pounds of UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated  
quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during June, 1958, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 120 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed both normal and reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	6	0.650	4,506	29
Normal	24	0.7115	15,265	108
	Total		19,771	137

This calculated total monthly loss of 19,771 grams uranium and 137 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

UNCLASSIFIED

K25RC

*H. G. Grisham*  
H. G. Grisham

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NOT TO BE LOANED FROM  
PLANT RECORDS K-1034  
Approved by:

*S. S. Stief*  
S. S. Stief

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**MATERIAL RELEASE REPORT NOS. 270-344**

**H. G. Grisham, J. W. Dixon, and E. L. Clay  
Uranium Control Department  
OAK RIDGE GASEOUS DIFFUSION PLANT  
Oak Ridge, Tennessee**

1958-1961

**UNION CARBIDE NUCLEAR COMPANY  
Operating Contractor  
for the U.S. ATOMIC ENERGY COMMISSION**

This document has been approved for release  
to the public by:

*Say W. Hall*  
Technical Information Officer

*12/11/95*  
Date

Oak Ridge K-25 Site

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: August 26, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier  
Mr. H. G. Grisham  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 270

1 KP-1069, Part 47

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
ADC or ADD signature (first reviewer) W.D. McCluen 8/22/58  
Date 9/9/58  
ADD signature (final reviewer) Sam W. Wadsworth  
Date

July, 1958  
K-1131  
UF<sub>6</sub>  
550  
"G"  
132.13 pounds of UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated  
quantity.

The K-1131 vent stack was sampled periodically during July, 1958, by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere. The feed plant processed normal material only during the month. Using an average of the sample results and a flow rate of 120 pounds per hour, the venting loss was calculated. This calculated total monthly loss of 40,527 grams uranium and 288 grams uranium-235 will be carried as a measured loss and credited to the 550 account.

H. G. Grisham  
H. G. Grisham

Approved by: S. S. Stief  
S. S. Stief

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: September 18, 1958

Copies To: Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 271

KP-1069, Part 48

Date of Release: August, 1958  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 558  
Class or Assay: "B" and "C"  
Amount of Material Involved: 191.88 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

August, 1958

K-1131

UF<sub>6</sub>

558

"B" and "C"

191.88 pounds of UF<sub>6</sub>  
K-1131 Vent Stack

W. D. McCluen

Known loss of calculated quantity.

Classification changed to: *Unclassified*  
(level and category)  
Authority of: *CG-PG-D-4*  
(classification guide)  
*W. D. McCluen* 8/12/94  
ADC or ADD signature (first reviewer) Date  
*Sam W. Wohlfort* 9/19/94  
ADD signature (final reviewer) Date

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during August, 1958, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed both normal and reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	12	0.663	25,007	166
Normal	19	0.7115	33,847	241
	TOTAL		58,854	407

This calculated total monthly loss of 58,854 grams uranium and 407 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

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JWD:ag

*J. W. Dixon*  
J. W. Dixon

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Approved by:

*S. S. Stief*  
S. S. Stief

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: September 25, 1958

Copies To: Mr. J. W. Dixon  
Mr. I. C. Flanders  
Mr. R. R. Frazier (RC)  
Mr. W. D. McCluen  
Mr. L. A. Thaler  
Production Division Files

Subject: K-1004-L Material Release  
Report No. 272

KP-1069, Part 49

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

September 2, 1958  
K-1004-L  
540  
UF<sub>6</sub>  
Class "B"  
25.0 pounds of UF<sub>6</sub>  
Pilot Plant Purge cell  
I. C. Flanders  
Known loss of estimated  
quantity.

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PGD-4*  
(classification guide)  
*W. D. Condit* 8/12/94 Date  
NDC or ADD signature (first reviewer) *Sam W. Wohlfart* 9/9/94 Date  
ADD signature (final reviewer)

During a power failure on September 2, 1958, at the UF<sub>6</sub> Pilot Plant, high pressure UF<sub>6</sub> was backed into the No. 1 purge compressor when the process compressors shut down. The purge compressor seal failed to hold and an estimated 7,666 grams uranium and 51 grams uranium-235 were released into the No. 2 motor alley. This quantity of material will be shown as a measured loss and credited to the 540 account.

**K-1004-L**  
**NOT TO BE RELEASED**  
**PLANT FILE**

JWD:gjd

Approved by:

*J. W. Dixon*  
\_\_\_\_\_  
J. W. Dixon  
*S. S. Stief*  
\_\_\_\_\_  
S. S. Stief

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*Legacy's List*

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Plant

Date: September 25, 1958

Copies To: Mr. J. W. Dixon  
Mr. R. H. Dyer  
Mr. R. R. Frazier (RC)  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Production Division Files

Subject: K-631 Material Release  
Report No. 273

KP-1069, Part 50

Date of Release:	September 3, 1958
Location of Release:	K-631
Balance Area Account No.:	200
Material:	UF <sub>6</sub>
Class or Assay:	Class "A"
Amount of Material Involved:	1.0 pound UF <sub>6</sub>
Equipment:	Cylinder 31915 valve
Source of Information:	R. H. Dyer
Details:	Known loss of estimated quantity.

When the cylinder was valved off and the pig-tail disconnected, the operator noticed that the cylinder valve was leaking through the bonnet. The valve was frozen down almost immediately. An estimated release of 1.0 pound of UF<sub>6</sub> occurred. This quantity of material, 307 grams uranium and 1 gram uranium-235, will be shown as a measured loss and credited to the 200 account.

*J. W. Dixon*  
\_\_\_\_\_  
J. W. Dixon

Approved by: *S. S. Stief*  
\_\_\_\_\_  
S. S. Stief

JWD:gjd

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By authority of: *CG-PGD-4*  
(classification guide)

*W. Wohlfort* 8/11/94  
\_\_\_\_\_  
ADC or ADD signature (first reviewer) Date

*Sam W. Wohlfort* 9/19/94  
\_\_\_\_\_  
ADD signature (final reviewer) Date

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: September 25, 1958

Copies To: Mr. J. C. Barton  
Mr. J. W. Dixon  
Mr. R. R. Frazier  
Mr. C. A. Kienberger  
Mr. W. D. McCluen  
Mr. R. J. Wertz  
Production Division Files

Subject: K-1004-A Material Release  
Report No. 274

KP-1069, Part 51

Date of Release:	September 11, 1958
Location of Release:	K-1004-A
Balance Area Account No.:	810
Material:	UF <sub>6</sub>
Class or Assay:	Class "A"
Amount of Material involved:	1043 grams, UF <sub>6</sub>
Equipment:	Harshaw sample cylinder
Source of Information:	C. A. Kienberger /
Details:	Known loss of known quantity.

A Harshaw sample container was attached to a manifold in an inverted position when the operator noticed that UF<sub>6</sub> was leaking from the valve bonnet. Before the material could be solidified, the threads on the bonnet gave way, releasing the contents of the cylinder. This quantity of material, 705 grams uranium and 3 grams uranium-235, will be carried as a measured loss and credited to the 810 account.

*Legacy List*

J. W. Dixon

Approved by:

S. S. Stief

JWD:gjd

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

ADC or ADD signature (first reviewer) 8/12/94 Date

only Sam W. Walfort 9/19/94 Date  
ADD signature (final reviewer)

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UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: October 10, 1958

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (RC)  
Mr. J. W. Dixon  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 275

KP-1069, Part 52

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material involved:  
Equipment:  
Source of Information:  
Details:

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *C.G. PG-D-4*  
(classification guide)  
ADC or ADD signature (first reviewer) *[Signature]* 8/12/94  
Date  
ADD signature (final reviewer) *Sam W. Welfort* 9/9/94  
Date

September, 1958  
K-1131  
550  
UF6  
Class "C"  
177.05 pounds of UF6  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated  
quantity.

The K-1131 vent stack was sampled periodically during September, 1958, by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere. The feed plant processed normal material only during the month. Using an average of the sample results and a flow rate of 200 pounds per hour, the venting loss was calculated. This calculated total monthly loss of 54,326 grams uranium and 387 grams uranium-235 will be carried as a measured loss and credited to the 550 account.

NOT TO BE RELEASED FROM K-1034

*[Signature]*  
J. W. Dixon

Approved by: *[Signature]*  
S. S. Stief

JWD:grd

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~~INTER-COMPANY CORRESPONDENCE~~

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons Plant: Oak Ridge Gaseous Diffusion  
K-303-8 Date: October 13, 1958

Copies To: Mr. E. C. Bollinger Subject: K-1131 Material Release  
Mr. J. W. Dixon Report No. 276  
Mr. R. R. Frazier RC  
Mr. K. M. Jones  
Mr. W. D. McCluen KP-1069, Part 53  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Central Files ✓

Date of Release: October, 1958  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 101.42 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during October, 1958, in order to determine the extent of material which which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed both normal and reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period Of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	5.7 days	0.650	5,757	37
Normal	25.3 days	0.7115	25,352	180
TOTAL			31,109	217

This calculated total monthly loss of 31,109 grams uranium and 217 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

J. W. Dixon  
J. W. Dixon

W. D. McCluen 8/12/94  
ADC or ADD signature (first reviewer)

Sam W. Wohlfort 7/9/94  
Approved by: Date

S. S. Stief  
S. S. Stief

JWD:gjd

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UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: December 12, 1958

Copies To: Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Central Files

Subject: K-1131 Material Release  
Report No. 277

KP-1069, Part 54

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

November, 1958  
K-1131  
UF<sub>6</sub>  
550  
"B" and "C"  
84.1 pounds of UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated quantity.

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CC-PGD-4*  
(classification guide)  
*W. D. McCluen* 8/12/94  
ADC of ADD signature (first reviewer) Date  
*Sam W. Work* 9/9/94  
ADD signature (final reviewer) Date

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during November, 1958, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed both normal and reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period Of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	3 days	0.650	2,738	18
Normal	27 days	0.7115	23,056	164
		TOTAL	25,794	182

This calculated total monthly loss of 25,794 grams uranium and 182 grams uranium 235 will be shown as a measured loss and credited to the 550 account.

~~K-1034~~  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

*J. W. Dixon*  
J. W. Dixon

Approved by: *S. S. Stief*  
S. S. Stief

JWD:gjd

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: January 16, 1959

Copies To: Mr. E. C. Bollinger  
Mr. R. R. Frazier (RC)  
Mr. J. W. Dixon  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Production Division Files

Subject: K-1131 Material Release,  
Report No. 278

KP-1069, Part 55

Date of Release:  
Location of Release:  
Balance Area Account No.:  
Material:  
Class or Assay:  
Amount of Material involved:  
Equipment:  
Source of Information:  
Details:

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CC-16-D-4*  
(classification guide)  
ADC or ADD signature (first reviewer) *J.W. Dixon* 1/12/59  
Date  
ADD signature (final reviewer) *Sam W. Wolfport* 1/19/59  
Date

December, 1958  
K-1131  
550  
UF<sub>6</sub>  
Class "C"  
101.18 pounds of UF<sub>6</sub>  
K-1131 Vent Stack  
W. D. McCluen  
Known loss of calculated  
quantity

The K-1131 vent stack was sampled periodically during December, 1958, by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere. The feed plant processed normal material only during the month. Using an average of the sample results and a flow rate of 200 pounds per hour, the venting loss was calculated. This calculated total monthly loss of 31,034 grams uranium and 221 grams uranium-235 will be carried as a measured loss and credited to the 550 account.

**K2ERC**

NOT TO BE RELEASED FROM  
PLANT RECORDS K-1034

*J. W. Dixon*  
J. W. Dixon

Approved by: *S. S. Stief*  
S. S. Stief

JWD:gjd

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: February 18, 1959

Copies To: Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Central Files ✓

Subject: K-1131 Material Release  
Report No. 279

KP-1069, Part 56

Date of Release: January, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No. 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 152.9 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during February, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed both normal and reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	22.7 days	0.650	35,379	230
Normal	8.3 days	0.7115	11,528	82
		TOTAL	46,907	312

This calculated total monthly loss of 46,907 grams uranium and 312 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

J. W. Dixon  
J. W. Dixon

W. D. McCluen 2/12/59  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 2/19/59  
ADC or ADD signature (final reviewer) Date

S. S. Stief  
S. S. Stief

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UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 17, 1959

Copies To: Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. A. Varlan  
Central Files

Subject: K-1131 Material Release  
Report No. 280

KP-1069, Part 57

Date of Release: February, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No. 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 149.38 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

Classification changed to: *Unclassified* (level and category)  
By authority of: *CG-PGD-4* (classification guide)  
*W.D. McCluen* 8/12/94  
ADC or ADD signature (first reviewer) *Sam W. Wofford* 9/9/99  
Date  
ADD signature (final reviewer) \_\_\_\_\_ Date

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during February, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed both normal and reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Reactor Tails	11 days	0.650	14,508	94
Normal	17 days	0.7115	31,310	223
	TOTAL		45,818	317

This calculated total monthly loss of 45,818 grams uranium and 317 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

**K25RC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

*J. W. Dixon*  
J. W. Dixon

JWD:gjd

Approved by:

*S. S. Stief*  
S. S. Stief

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UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 18, 1959

Copies To: Mr. J. C. Barton  
Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. J. H. Martin  
Mr. W. D. McCluen  
Mr. C. M. Preston  
Central Files

Subject: K-1401 Material Release  
Report No. 281

KP-1069, Part 58

Date of Release:

January 9, 1959

Location of Release:

K-1401 Basement

Balance Area Account No:

500

Material:

UF<sub>6</sub>

Class or Assay:

"A"

Amount of Material Involved:

30 grams UF<sub>6</sub>

Equipment:

Manifold for transferring UF<sub>6</sub>

Source of Information:

C. M. Preston

Details:

Known loss of estimated quantity

During a transfer of UF<sub>6</sub> from one cylinder to another, the manifold was disconnected before closing the cylinder valve, allowing approximately 20 grams of uranium and 0 grams of U-235 to escape to the atmosphere. This quantity of material will be shown as a measured loss and credited to the 500 account.

**K25RC**

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PLANT RECORDS K-1034

J. W. Dixon  
J. W. Dixon

JWD:gjd

Approved by:

S. S. Stief  
S. S. Stief

Classification changed to:

Unclassified  
(level and category)

By authority of:

CG-PGD-4  
(classification guide)

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Date

ADD signature (final reviewer)

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UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 31, 1959

Copies To: Mr. A. L. Alien  
Mr. J. W. Arendt  
Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. W. D. McCluen  
Central Files

Subject: Material Release Report  
No. 282. Write Off of  
Uranium in Nickel Residue

KP-1069, Part 59

Date of Release:	September, 1958
Location:	Off Area Shipments
Balance Area Account No.:	910
Material:	Nickel Residue
Class or Assay:	"E"
Amount of Material Involved:	1650.0 pounds nickel residue
Source of Information:	W. D. McCluen
Details:	Known loss of calculated quantity.

In September, 1958, three containers of nickel residue were shipped to the Oak Ridge Processing Company. This material containing 45 grams uranium and no uranium-235 was expended in the course of experimental work and will be carried as a measured loss and credited to the 910 account. Individual container data follow:

Container Number	Net Weight (Pounds)	Grams Uranium	Grams Uranium-235
K-10020	583.00	16	-
K-10027	552.00	15	-
K-10028	515.00	14	-
Total	1650.00	45	

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

J. W. Dixon  
J. W. Dixon

ADC or ADD signature (first reviewer) W. D. McCluen Date 8/12/58

ADD signature (final reviewer) Sam W. Wohlfort Date 9/19/58

Date Approved by: S. S. Stief  
S. S. Stief

JWB:ejd

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 31, 1959

Copies To: Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. J. Dykstra  
Mr. T. P. Fleming  
Mr. R. R. Frazier RC  
Mr. W. D. McCluen  
Central Files

Subject: K-1420 Material Release  
Report No. 283

KP-1069, Part 60

Date of Release	February 27, 1959
Location of Release:	K-1420
Balance Area Account No.:	750
Material:	Contaminated HNO <sub>3</sub> Solution
Class or Assay:	"B"
Amount of Material Involved:	1200 liters of solution
Equipment:	Acid spray booth pump
Source of Information:	T. P. Fleming
Details:	Known loss of estimated quantity.

The base of the Acid Spray Booth Pump in K-1420 had corroded to such an extent that the discharge flange of the pump was broken by vibration. This allowed approximately 1200 liters of contaminated HNO<sub>3</sub> to spill to the floor and walls of the tunnel. An estimated 2,819 grams of uranium and 19 grams of uranium-235 will be carried as a measured loss and credited to the 750 account.

*Legacy's best*

*J. W. Dixon*  
J. W. Dixon

Approved by:

*S. S. Stief*  
S. S. Stief

JWD:gjd

Classification changed to: *Unclassified*  
(level and category)

By authority of: *CG-PCD-7*  
(classification guide)

*Sam W. Wohlfoet* 8/12/94  
ADC or ADD signature (first reviewer) Date

*Sam W. Wohlfoet* 9/9/94  
ADD signature (final reviewer) Date

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AN RECORDS K-1034

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 31, 1959

Copies To: Mr. J. W. Dixon  
Mr. R. R. Frazier RC  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. M. Preuss  
Mr. G. T. E. Sheldon  
Mr. H. G. P. Snyder

Subject: K-312-1 Material Release  
Report No. 284

KP-1069, Part 61

Date of Release:	February 16, 1959
Location of Release:	K-312-1
Balance Area Account No.:	200
Material:	UF <sub>6</sub>
Class or Assay:	"H"
Amount of Material Involved:	20 grams
Equipment:	Purge Stack
Source of Information:	R. E. Kidd
Details:	Known loss of estimated quantity.

When one of the lites storage cells in unit K-305-12 was taken off stream, an abnormal amount of UF<sub>6</sub> was pulled into the K-312-1 Purge Unit, resulting in a high tops purge concentration. This caused a rapid loading of the alumina traps with an attendant spill over to the atmosphere for approximately 10 minutes. Estimated quantities of 13 grams uranium and 12 grams uranium-235 will be carried as a measured loss and credited to the 200 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-RGD-4  
(classification guide)

[Signature] 8/12/94  
Date

ADC or ADD signature (first reviewer)  
Sam W. Wohlfart 9/9/94  
Date

ADD signature (final reviewer)

J. W. Dixon  
J. W. Dixon

Approved by: S. S. Stief  
S. S. Stief

JWD:gjd

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# K25RC

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# UNCLASSIFIED

NOT TO BE LOANED FROM  
PLANT RECORDS

INTER-COMPANY CORRESPONDENCE

## UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 31, 1959

Copies To: Mr. J. W. Dixon  
Mr. R. R. Frazier  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. M. Preuss  
Mr. G. T. E. Sheldon  
Mr. H. G. P. Snyder

Subject: K-312-1 Material Release  
Report No. 285

KP-1069, Part 62

Date of Release:	February 16, 1959
Location of Release:	K-312-1
Balance Area Account No.:	200
Material:	UF <sub>6</sub>
Class or Assay:	"H"
Amount of Material Involved:	10 grams
Equipment:	Feed Pump
Source of Information:	D. E. Garrison
Details:	Known loss of estimated quantity.

The belts on the K-312-1 East feed pump burned causing the pump to stop. Upon inspection the seal exhaust was found to be plugged and UF<sub>6</sub> had escaped from the pumping chamber through the carbon seal. The duration of this release was approximately 15 minutes. Estimated quantities of 7 grams uranium and 7 grams uranium-235 will be carried as a measured loss and credited to the 200 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

J. W. Dixon  
J. W. Dixon

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfart 9/19/94  
ADD signature (final reviewer) Date

Approved by: [Signature]  
S. S. Stief

FD: gjd

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K25BC

~~CONFIDENTIAL~~  
INTER-COMPANY CORRESPONDENCE

UNCLASSIFIED

NOT TO BE LOANED FROM UNION CARBIDE NUCLEAR COMPANY  
PL. RECORDS K-1034 Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓  
K-303-8 Plant: Oak Ridge Gaseous Diffusion

Date: April 2, 1959

Copies To: Mr. E. C. Bollinger Mr. W. D. McCluen Subject: K-1131 Material Release  
Mr. J. W. Dixon Mr. H. G. P. Snyder Report No. 286  
Mr. R. R. Frazier RC Mr. A. Varlan  
Mr. K. M. Jones Central Files KP-1069, Part 63

Date of Release: March, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B", "C" and "D"  
Amount of Material Involved: 137.0 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during March, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	7.3	0.650	11,901	77
Normal	18.0	0.7115	25,519	182
Enriched Reactor Tails	5.7	0.850	4,601	39
TOTAL			42,021	298

This calculated total monthly loss of 42,021 grams uranium and 298 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
AS Congdon 8/12/94  
ADC or ADD signature (first reviewer) Date  
Sam W. Wohlford 9/9/94  
ADD signature (final reviewer) Date

J. W. Dixon  
J. W. Dixon

Approved by: S. S. Stief  
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY  
Division of Union Carbide Corporation

To: Mr. J. A. Parsons ✓ Plant: Oak Ridge Gaseous Diffusion  
K-303-8 UNCLASSIFIED Date: June 15, 1959

Copies To: Mr. E. C. Bollinger Mr. W. D. McCluen Subject: K-1131 Material Release  
Mr. J. W. Dixon Mr. H. G. P. Snyder Report No. 288  
Mr. R. R. Frazier Mr. A. Varlan  
Mr. T. Hope Central Files  
Mr. K. M. Jones KP-1069, Part 65

Date of Release: May, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 204.3 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

**K2ERC**  
NOT TO BE OBTAINED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during May, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal and depleted reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	17	0.650	31,536	205
Normal	14	0.7115	31,132	222
		TOTAL	62,668	427

This calculated total monthly loss of 62,668 grams uranium and 427 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-P60-4  
(classification guide)

[Signature] 8/12/97  
Date  
ADC or ADD signature (first reviewer)

[Signature] 2 Sep 97  
Date  
ADD signature (final reviewer)

[Signature]  
J. W. Dixon

Date approved by: [Signature]  
S. S. Stief

JWD:gjd

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company ORGDP  
Location Building K-303-8

Date July 28, 1959  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

Subject K-1131 Material Release  
Report No. 289

KP-1069, Part 66

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-15-D-4*  
(classification guide)  
Date: *8/12/94*  
APC of ADD signature (first reviewer)  
Date: *25 Sep 94*  
ADD signature (final reviewer)

Date of Release: June, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C" and "D"  
Amount of Material Involved: 139.9 pounds  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during June, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	9	0.650	20,504	133
Normal	12	0.7115	22,896	163
Enriched Reactor Tails	9	0.850	14,839	126
TOTAL			58,239	422

This calculated total monthly loss of 58,239 grams uranium and 422 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

~~RESTRICTED DATA~~

This document contains information which is classified in the interest of national defense and the unauthorized disclosure of its contents in any manner to an unauthorized person is prohibited.

*J. W. Dixon*  
J. W. Dixon

~~CONFIDENTIAL~~

Approved by: *S. S. Stief*  
S. S. Stief

~~CONFIDENTIAL~~

UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company ORGDP  
Location Building K-303-8

Date July 28, 1959  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. J. W. Arendt Mr. K. M. Jones  
Mr. J. W. Dixon Mr. W. D. McCluen  
Mr. R. R. Frazier Mr. H. G. P. Snyder  
Mr. T. Hope Central Files

Subject K-1059 Storage Material Release  
Report No. 290  
KP-1069, Part 67

Date of Release: June 15, 1959  
Location of Release: K-1059  
Balance Area Account No.: 910  
Material: Uranyl Nitrate  
Class or Assay: "B"  
Amount of Material Involved: 4.5 liters  
Equipment: Drum  
Source of Information: J. W. Arendt  
Details: Known loss of calculated quantity

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
ADC or ADD signature (first reviewer) [Signature] 8/12/94 Date  
ADD signature (final reviewer) [Signature] 25 Sep 94 Date

During a routine investigation of the K-1059 storage facility in June, a container of uranyl nitrate was discovered to have developed a leak as a result of corrosion.

The contents of the container was released as follows:

Container No.	Material Type	quantity of Material	Grams U	Grams U-235
UN-5	634	38.40	7227	48

Recovery through decontamination was effected as follows:

UN-5	634	33.90	5122	35
------	-----	-------	------	----

The difference between the total release and recovery (2,105 grams uranium and 13 grams uranium-235) will be shown as a measured loss and credited to the 910 account.

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*Legacy's list*

J. W. Dixon  
J. W. Dixon

Approved by:

[Signature]  
S. S. Stief

JWD:gjd

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date August 14, 1959  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

Subject K-1131 Material Release  
Report No. 291

KP-1069, Part 68

Date of Release: July, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No. 550  
Class or Assay: "B", "C" and "D"  
Amount of Material Involved: 185.98 pounds  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1131

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during July, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	12.5	0.650	24,236	158
Normal	5.5	0.7115	7,637	54
Enriched Reactor Tails	13.0	0.850	25,169	214
Total			57,042	426

This calculated total monthly loss of 57,042 grams uranium and 426 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide) J. W. Dixon

ADC of ADD signature (first reviewer) [Signature] Date 8/12/59  
ADD signature (final reviewer) [Signature] Date 25 Sep 59

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Approved by:

S. S. Stief  
S. S. Stief

JWD:gjd

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date September 17, 1959

Originating Dept. Uranium Control

Answering letter date

**UNCLASSIFIED**

Copy to Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

Subject K-1131 Material Release  
Report No. 292

KP-1069, Part 69

Date of Release August, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 100.48 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during August, 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal and depleted reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	14	0.650	13,274	86
Normal	17	0.7115	17,544	125
Total			30,818	211

This calculated total monthly loss of 30,818 grams uranium and 211 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

ADC of ADD signature (first reviewer) [Signature] 8/12/94 Date

ADD signature (final reviewer) [Signature] 2 Sep 94 Date

J. W. Dixon  
J. W. Dixon

Approved by: [Signature]  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name): Mr. J. A. Parsons  
Company  
Location K-303-8

Date October 12, 1959

Originating Dept.

Answering letter date

**UNCLASSIFIED**

Copy to  
Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files  
Subject K-1131 Material Release Report No. 293

KP-1069, Part 70

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

September 1959

K-1131

UF6

550

"B", "C", and "D"

134.71 pounds

K-1131 Vent Stack

W. D. McCluen

Known loss of calculated quantity

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
DPC or ADD signature (first reviewer) Date

[Signature] 2 Sep 94  
ADD signature (final reviewer) Date

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during September 1959 in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	12.5	0.650	15,293	99
Normal	7.5	0.7115	13,394	95
Enriched Reactor Tails	10.0	0.850	12,630	107
Total			41,317	301

This calculated total monthly loss of 41,317 grams uranium and 301 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

~~RESTRICTED DATA~~

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J. W. Dixon

Approved by:

S. S. Stief

JWD:vtd

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date November 13, 1959

Originating Dept. Uranium Control

Answering letter date

UNCLASSIFIED

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject K-1131 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 294  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope KP-1069, Part 71

Date of Release: October, 1959  
Location of Release: K-1131  
Balance Area Account No.: 550  
Material: UF<sub>6</sub>  
Class or Assay: Class "C"  
Amount of Material involved: 108.18 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *[Signature]*  
ADC of ADD signature (first reviewer) *[Signature]* Date 8/12/94  
ADD signature (final reviewer) *[Signature]* Date 20 Sep 94

The K-1131 vent stack was sampled periodically during October, 1959, by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere. The feed plant processed normal material only during the month. Using an average of the sample results and a flow rate of 200 pounds per hour, the venting loss was calculated. This calculated total monthly loss of 33,130 grams uranium and 236 grams uranium-235 will be carried as a measured loss and credited to the 550 account.

*J. W. Dixon*  
J. W. Dixon

Approved by:

*S. S. Stief*  
S. S. Stief

JWD:gjd

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INTERNAL CORRESPONDENCE

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date December 17, 1959

Originating Dept.

Answering letter date

UNCLASSIFIED

Copy to Mr. E. C. Bollinger Mr. K. M. Jones, Subject K-1131 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 295  
Mr. J. Dykstra Mr. H. C. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope

KP-1069, Part 72

Date of Release November, 1959  
Location of Release: K-1131  
Material: UF6  
Balance Area Account No.: 550  
Class or Assay: "B", "C", and "D"  
Amount of Material Involved: 124.57 pounds  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during November 1959 in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	17	0.650	22,825	148
Normal	4	0.7115	5,788	41
Enriched Reactor Tails	9	0.850	9,594	82
Total			38,207	271

This calculated total monthly loss of 38,207 grams uranium and 271 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 2 Sep 94  
ADD signature (final reviewer) Date

[Signature]  
J. W. Dixon

Approved by: [Signature]  
S. S. Stief

JWD:gid  
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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date January 20, 1960  
Originating Dept. Uranium Control  
Answering letter date

**UNCLASSIFIED**

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject K-1131 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 296  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope KP-1069, Part 73

Date of Release: December, 1959  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B", "C", and "D"  
Amount of Material Involved: 152.42 pounds  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

**K-1131**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during December 1959, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	14.5	0.650	25,705	167
Normal	12.0	0.7115	13,922	99
Enriched Reactor Tails	4.5	0.850	7,122	61
Total			46,749	327

This calculated total monthly loss of 46,749 grams uranium and 327 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-P&D-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 2 Sep 94  
ADD signature (final reviewer) Date

Approved by:

[Signature]  
J. W. Dixon

[Signature]  
S. S. Stief

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY** • POST OFFICE BOX F, OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date March 14, 1960  
Originating Dept. Uranium Control  
Answering letter date

**UNCLASSIFIED**

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject K-1131 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 298  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope KP-1069, Part 75

Date of Release: February, 1960  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C" NOT TO BE LOANED FROM  
Amount of Material Involved: 166.78 pounds of REACTOR RECORDS K-1034  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss or calculated quantity

**K25RC**

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during February 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	9.5	0.650	14,406	94
Normal	19.5	0.7115	36,747	261
	Total		51,153	355

This calculated total monthly loss of 51,153 grams uranium and 355 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/14/94  
ADC or ADD signature (first reviewer) Date

[Signature] 2 Sep 94  
ADD signature (first reviewer) Date

[Signature]  
J. W. Dixon

Approved by: [Signature]  
S. S. Stief

JWD:edd  
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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date April 14, 1960  
Originating Dept. Uranium Control  
Answering letter date

**UNCLASSIFIED**

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject K-1131 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 300  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files KP-1069, Part 77  
Mr. T. Hope

Date of Release: March, 1960  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C" and "D"  
Amount of Material Involved: 126.81 pounds of UF<sub>6</sub>  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during March, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	16	0.650	22,261	145
Normal	7	0.7115	6,729	48
Enriched Reactor Tails	8	0.850	9,904	84
Total			38,894	277

This calculated total monthly loss of 38,894 grams uranium and 277 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

ADG or ADD signature (first reviewer) [Signature] 8/12/94  
Date

ADD signature (final reviewer) [Signature] 25 Sep 94 Approved by: [Signature]  
Date

[Signature]  
J. W. Dixon

[Signature]  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date April 19, 1960  
Originating Dept. Uranium Control

**UNCLASSIFIED**

Answering letter date

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject K-1420 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 301  
Mr. R. R. Frazier Mr. H. G. P. Snyder  
Mr. T. Hope Mr. A. Varlan  
Central Files KP-1069, Part 78

Date of Release: March 1960  
Location of Release: K-1420  
Material: UF  
Balance Area Account No.: 410  
Class or Assay: "C" and "E"  
Amount of Material Involved: 90.30 pounds of UF  
Equipment: K-1420 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
ADC or ADD signature (first reviewer) [Signature] Date 8/12/64  
ADD signature (final reviewer) [Signature] Date 2 Sep 64

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during March 1960, in order to determine the extent of material which was vented to the atmosphere. Using a daily average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated. Since the K-1420 fluorination facility processed normal and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	3	0.7115	775	5
Enriched Material	28	1.50	27,217	409
	Total		27,992	414

This calculated total monthly loss of 27,992 grams uranium and 414 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

**K2ERC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

[Signature]  
J. W. Dixon

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S. S. Stief

JWD:slj  
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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date May 12, 1960  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject K-1131 Material Release  
Mr. J. W. Dixon Mr. W. D. McCluen Report No. 302  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope

KP-1069, Part 79

Date of Release: April, 1960  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B", "C", and "D"  
Amount of Material Involved: 138.16 pounds  
Equipment: K-1131 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during April 1960 in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal, depleted, and enriched reactor tails material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Reactor Tails	13.5	0.650	20,887	136
Normal	7.5	0.7115	12,544	89
Enriched Reactor Tails	9.0	0.850	8,944	76
Total			42,375	301

This calculated total monthly loss of 42,375 grams uranium and 301 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: ~~SECRET~~ Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

J. W. Dixon  
J. W. Dixon

[Signature] 8/12/94  
ADC of ADD signature (first reviewer) Date

[Signature] 2/20/94  
ADD signature (final reviewer) Date Approved by:

[Signature]  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company/  
Location K-303-8

Date May 12, 1960  
Originating Dept. Uranium Control  
Answering letter date

**UNCLASSIFIED**

Copy to Mr. E. C. Bollinger Mr. W. D. McCluen Subject K-1420 Material Release  
Mr. J. W. Dixon Mr. H. G. P. Snyder Report No. 303  
Mr. R. R. Frazier Mr. J. Dykstra  
Mr. T. Hope Central Files KP-1069, Part 80  
Mr. K. M. Jones

Date of Release: April, 1960  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay "E"  
Amount of Material Involved: 1.33 pounds of UF<sub>6</sub>  
Equipment: K-1420 Vent Stack  
Source of Information: W. D. McCluen  
Details: Known loss of calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during April 1960 in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated based on 447.8 hours of operation.

This calculated total monthly loss of 408 grams uranium and 6 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 2 Sept 94  
AND signature (final reviewer) Date

[Signature]  
J. W. Dixon

Approved by: [Signature]  
S. S. Stief

JWD:gjd

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**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE. TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 20, 1960  
Originating Dept. Uranium Control

**UNCLASSIFIED**

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Mr. H. G. P. Snyder  
Mr. T. Hope Central Files

Subject K-1131 Material Release Report No. 304

KP-1069, Part 81

Date of Release: May 1960  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No: 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 150.81 pounds  
Equipment: K-1131 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during May 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 Feed Plant Facility processed normal and depleted materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Material	9 days	0.6500	14,124	92
Normal Material	22 days	0.7115	32,131	229
Total			46,255	321

This calculated total monthly loss of 46,255 grams uranium and 321 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-RGD-4  
(classification guide)

Approved by: [Signature] 8/12/94  
Date  
ADG or ADD signature (first reviewer)  
Approved by: [Signature] 28094  
Date

[Signature]  
E. L. Clay  
[Signature]  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 20, 1960  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. J. Dykstra  
Central Files

K-1420 Material Release Report No. 305

KP-1069, Part 82

Date of Release:	May 1960
Location of Release:	K-1420
Material:	UF6
Balance Area Account No:	410
Class or Assay:	"D"
Amount of Material Involved:	6.16 pounds
Equipment:	K-1420 Vent Stack
Source of Information:	Process Laboratory
Details:	Known loss of calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during May 1960 in order to determine the extent of material which was vented to the atmosphere. Using a daily average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 602.8 hours of operation. Since the K-1420 Fluorination Facility processed only enriched materials during the month, a breakdown of the monthly loss by type is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Enriched Material	602.8 hours	1.50	1,889	28

This calculated total monthly loss of 1,889 grams uranium and 28 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)  
By authority of: CC-160-4  
(classification guide)  
Date: 8/12/64  
ADC or ADD signature (first reviewer)  
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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 20, 1960  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope

Subject Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

K-1131 Material Release  
Report No. 306

KP-1069, Part 83

Date of Release: May 7, 1960  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No: 550  
Class or Assay: "B"  
Amount of Material Involved: 600 pounds  
Equipment: "F" Alco Cold Trap  
Source of Information: E. L. Halstead  
Details: Known loss of a calculated quantity

**K25RC**  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

During the draining operation of "F" cold trap, the steam heating coil ruptured allowing approximately 600 pounds of depleted UF<sub>6</sub> to escape through the condensate header. Estimated quantities of 184,003 grams uranium and 1,196 grams uranium-235 will be carried as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
[Signature] 8/12/94  
ADC of ADD signature (first reviewer) Date  
[Signature] 28 Sep 94  
ADD signature (final reviewer) Date

*Legacy list*  
E. L. Clay  
E. L. Clay  
S. S. Stief  
S. S. Stief

Approved by:

ELC:vtd

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UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 20, 1960

Originating Dept. Uranium Control

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Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject Mr. W. D. McCluen.  
Mr. H. G. P. Snyder  
Central Files

K-25 Tails Material Release  
Report No. 307

KP-1069, Part 84

Date of Release:	April 18, 1960
Location of Release:	Louisville, Kentucky (freight yard)
Material:	UF <sub>6</sub>
Balance Area Account No:	120
Class or Assay:	"A"
Amount of Material Involved:	0
Equipment:	UF <sub>6</sub> - 2.5-ton cylinder
Source of Information:	J. W. Arendt
Details:	Known loss of a calculated quantity

ORGRP tails cylinder A-3581 (2.5-ton) was shipped to Paducah by railcar on April 18, 1960. In transit (at Louisville, Ky.) the cylinder appeared to be leaking at the valve. Upon observation by J. W. Arendt on April 20, 1960, it was found that some residual material had been trapped in the cylinder valve and that heat from the sun had caused this material to vaporize. There was no weight loss attributed to the cylinder that could be detected by the weigh-in scales at Paducah.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

AFC or ADD signature (first reviewer) [Signature] Date 8/12/64 Approved by:

ADD signature (final reviewer) [Signature] Date 2 Sep 64  
ELC:vtd

[Signature]  
E. L. Clay

[Signature]  
S. S. Stief

**K25RC**  
NOT TO BE FILED FROM  
PLANT RECORDS W-1034

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**UNION  
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**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE. TENNESSEE

To (Name) Mr. J. A. Parsons  
Company K-303-8  
Location

Date June 20, 1960

Originating Dept. Uranium Control

**UNCLASSIFIED**

Answering letter date

Copy to  
• Mr. E. C. Bollinger  
Mr. J. W. Dixon  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Mr. J. Dykstra  
Central Files ✓

K-1420 Material Release  
Report No. 308

KP-1069, Part 85

Date of Release: June 9, 1960  
Location of Release: K-1420 Conversion Area  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Asssay: "D"  
Amount of Material Involved: 14.50 Pounds  
Equipment: 5" (F-20 A) Cold Trap  
Source of Information: E. J. Forrester  
Details: Known loss of a calculated quantity.

Attempting to dump a 5" cold trap that had been heated to 190°F., it was found that no material was entering the trapping cylinder and assumed that the pigtail and/or inlet line was plugged. After closing the block valves (two), both lines were removed and found plugged. With a sharp instrument the operator pierced the plug in the end of the line, allowing the material to be released to atmosphere. The material hold-up in this line is 14.50 pounds UF<sub>6</sub>. The material being processed at the time was 1.5% U-235.

The calculated total loss of 2017 grams uranium and 13 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PCD-4  
(classification guide)

ADC or ADD signature (first reviewer) [Signature] 12/8/94 Date  
ADC or ADD signature (final reviewer) [Signature] 28 Sep 99 Date

[Signature]  
E. L. Clay  
[Signature]  
S. S. Stief

*Legacy list*

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by authority of: \_\_\_\_\_  
(classification guide)

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date July 18, 1960  
Originating Dept. Uranium Control

**UNCLASSIFIED**

Answering letter date

Copy to Mr. E. C. Bollinger Mr. K. M. Jones Subject  
Mr. E. L. Clay Mr. W. D. McCluen  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope

K-1131 Material Release  
Report No. 309

KP-1069, Part 86

**K25RC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Date of Release: June, 1960  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 197.78 Pounds  
Equipment: K-1131 Vent Stock  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during June, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 feed plant processed normal and depleted materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Material	15	0.6500	25,992	168
Normal Material	15	0.7115	34,670	247
	Total		60,662	415

This calculated total monthly loss of 60,662 grams uranium and 415 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

E. L. Clay  
E. L. Clay

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 2/29/94  
Approved by Date

[Signature]  
S. S. Stief

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date July 18, 1960

**UNCLASSIFIED**

Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. K. M. Jones  
Mr. E. L. Clay Mr. W. D. McCluen  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope

Subject K-1420 Material Release  
Report No. 310

KP-1069, Part 87

Date of Release: June, 1960  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: "E"  
Amount of Material Involved: 2.81 Pounds  
Equipment: K-1420 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity

**K25RC**  
NOT TO BE RELEASED FROM  
PLANT RECORDS K-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during June, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 523.54 hours of operation. Since the K-1420 fluorination facility processed only enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Enriched Material	523.54 hrs.	1.500	863	13

This calculated total monthly loss of 863 grams uranium and 13 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 2/26/94  
ADD signature (final reviewer) Date

Approved by:

[Signature]  
E. L. Clay

[Signature]  
S. S. Stief

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UCN-428  
11-1-59

**UNION CARBIDE INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY** • POST OFFICE BOX P OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date August 17, 1960

Company  
Location K-303-8 Originating Dept. Uranium Control

**UNCLASSIFIED**

Answering letter date

Copy to Mr. E. C. Bollinger Subject K-1420 Material Release  
Mr. E. L. Clay Mr. K. M. Jones Report No. 311  
Mr. R. R. Frazier Mr. W. D. McCluen  
Mr. T. Hope Mr. H. C. P. Snyder  
Mr. J. Dykstra Central Files KP-1069, Part 88

Date of Release: July, 1960  
Location of Release: K-1420  
Material: UF6  
Balance Area Account No: 410  
Class or Assay: "E"  
Amount of Material Involved: 0.29  
Equipment: K-1420 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity.

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during July, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 124.72 hours of operation. Since the K-1420 Fluorination Facility processed only enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Enriched	124.72 hours	1500	89	1

This calculated total monthly loss of 89 grams uranium and 1 gram uranium-235 will be shown as a measured loss and credited to the 410 account.

~~RESTRICTED DATA~~

This document contains restricted data as defined in the Atomic Energy Act of 1954, its amendments or the disclosure of its contents in any manner to an unauthorized person is prohibited.

Approved by:

E. L. Clay

S. S. Stief  
S. S. Stief

ELC:vtd

~~CONFIDENTIAL~~

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-44  
(classification guide)  
[Signature] 8/12/64 Date  
ADC of ADD signature (first reviewer)  
[Signature] 20 Sep 64 Date  
ADD signature (final reviewer)

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date August 17, 1960  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope

Subject Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

K-1131 Material Release  
Report No. 312

KP-1069, Part 89

Date of Release: July 1960  
Location of Release: K-1131  
Material: UF6  
Balance Area Account No: 550  
Class or Assay: "B" and "D"  
Amount of Material Involved: 168.02  
Equipment: K-1131 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during July, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated. Since the K-1131 Feed Plant processed depleted, and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted material	22 days	0.6500	35,627	232
Enriched material	9 days	0.8500	15,905	135
Total			51,532	367

This calculated total monthly loss of 51,532 grams uranium and 367 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

~~RESTRICTED DATA~~

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Approved by:

E. L. Clay

S. S. Stief

ELC:vtd

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Classification changed to: Unclassified  
(level and category)  
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(classification guide)  
ADC of ADD signature (first reviewer) 8/12/64  
Date  
ADD signature (final reviewer) 20 Sep 64  
Date

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date September 8, 1960  
Originating Dept. Uranium Control  
Answering letter date

UNCLASSIFIED

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-1420 Material Release Report No. 313

Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

KP-1069, Part 90

Date of Release: August 1960  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No: 410  
Class or Assay: E-9  
Amount of Material Involved: 1.02 pounds  
Equipment: K-1420 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity.

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during August, 1960, in order to determine the extent of material which vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 175.46 hours of operation. Since the K-1420 Fluorination Facility processed only enriched material during the month, a breakdown of the monthly loss is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Enriched Material	175.46 hours.	1.3000	313	4

This calculated total monthly loss of 313 grams uranium and 4 grams uranium-235 will be shown as a measured loss and credited to 410 account.

*E. L. Clay*  
E. L. Clay

Approved by:

*S. S. Stief*  
S. S. Stief

Classification changed to: *UNCLASSIFIED*  
(level and category)  
By authority of: *CG-RGD-4*  
(classification guide)  
Date: *8/12/94*  
ABC of ADD signature (first reviewer) *[Signature]* Date: *25 Sep 99*  
ADD signature (final reviewer) *[Signature]* Date: *25 Sep 99*

W2EDC

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date September 8, 1960  
Originating Dept. Uranium Control

UNCLASSIFIED

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-1131 Material Release Report No. 314  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files  
KP-1069, Part 91

Date of Release: August 1960  
Location of Release: K-1131  
Material: UF6  
Balance Area Account No: 550  
Class or Assay: "B" and "C"  
Amount of Material Involved: 98.61  
Equipment: K-1131 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity.

**K25RC**  
NOT TO BE TAKEN FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during August 1960 in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 29 days of operation. Since the K-1131 Feed Plant facility processed normal and depleted materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Material	18 days	0.6500	19,671	128
Normal Material	11 days	0.7115	10,567	75
Total			30,238	203

This calculated total monthly loss of 30,238 grams uranium and 203 grams uranium-235 will be shown as a measured loss and credited to 550 account.

*E. L. Clay*  
E. L. Clay  
*S. S. Stief*  
S. S. Stief

Approved by:

~~CONFIDENTIAL~~

By authority of:  
Classification Guide  
Date  
ADD signature (Unit reviewer)

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company K-303-8  
Location

Date October 12, 1960

Originating Dept. Uranium Control

Answering letter date

UNCLASSIFIED

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. T. Hope  
Mr. R. R. Frazier

Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

Subject K-1131 Material Release  
Report No. 315

KP-1069, Part 92

Date of Release:	September 1960
Location of Release:	K-1131
Material:	UF <sub>6</sub>
Balance Area Account No.:	550
Class or Assay:	"B" and "C"
Amount of Material Involved:	335.92 pounds
Equipment:	K-1131 vent stack
Source of Information:	Process Control Laboratory
Details:	Known loss of calculated quantity.

K 257 C

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during September, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results a flow rate of 200 pounds per hour, a venting loss was calculated, based on 22 days of operation. Since the K-1131 Feed Plant facility processed normal and depleted materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Material	15 days	0.6500	62,004	403
Normal Material	7 days	0.7115	41,026	292
Total			103,030	695

This calculated total monthly loss of 103,030 grams uranium and 695 grams uranium-235 will be shown as a measured loss and credited to 550 account.

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE. TENNESSEE

To (Name) Mr. J. A. Parsons  
Company K-303-8  
Location

Date November 8, 1960  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-1131 Material Release  
Report No. 316

Mr. W. D. McCluen  
Mr. H. C. P. Snyder  
Central Files ✓

KP-1069, Part 93

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

Date of Release: October 1960  
Location of Release: K-1131  
Material: UF6  
Balance Area Account No: 550  
Class or Assay: "C"  
Amount of Material Involved: 38.74 pounds  
Equipment: K-1131 vent stack  
Source of Information: Process Control Laboratory  
Details: Known loss of calculated quantity.

[Signature] 8/12/94 Date  
ADC or ADD signature (first reviewer)  
[Signature] 25 Sep 94 Date  
APD signature (final reviewer)

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during October 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated based on 5 days of operation. Since the K-1131 Feed Plant facility processed only normal material during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	5 days	0.7115	11,881	84

This calculated total monthly loss of 11,881 grams uranium and 84 grams uranium-235 will be shown as a measured loss and credited to 550 account.

E. L. Clay  
E. L. Clay

Approved by: S. S. Stief  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date November 11, 1960

UNCLASSIFIED

Originating Dept., Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-631 Material Release  
Report No. 317

Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

KP-1069, Part 94

Date of Release: October 20, 1960  
Location of Release: K-631  
Material: UF<sub>6</sub>  
Balance Area Account No: 120  
Class or Assay: A-4  
Amount of Material Involved: 5 pounds (estimated)  
Equipment: Drain header block valve  
Source of Information: S. A. Thompson, K-27  
Details: Known loss of estimated quantity.

On October 20, 1960, while draining liquid UF<sub>6</sub> into a 2.5-ton shipping container from the number 2 drain position in building K-631, the bellows ruptured on a block valve located in the drain line between the number 1 and 2 drain positions. Since the valve was closed at the time of the rupture, the maximum amount of UF<sub>6</sub> released was that material contained in the section of one-inch line between the valve and the block valve at the number 1 drain position. Since this line was opened to the waste drums following the release, the amount of UF<sub>6</sub> released to the atmosphere was estimated to be no more than five pounds. No accountability was made on the material recovered by decontamination.

This estimated total loss of 1534 grams uranium and 6 grams uranium-235 will be shown as a measured loss and credited to the 120 account.

K25RC  
NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Approved by:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

ADD signature (first reviewer) S. S. Stief Date 8/12/94  
ADD signature (fin. reviewer) [Signature] Date 2/28/94

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company K-303-8  
Location

Date December 11, 1960  
Originating Dept. Uranium Control

**UNCLASSIFIED**

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-1420 Material Release  
Report No. 318

Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files ✓

KP-1069, Part 95

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

November 1960  
K-1420  
UF6  
460 and 410  
"G" and "H"  
0.14 pounds  
K-1420 vent stack  
K-1420 Process Laboratory  
Known loss of calculated quantity

**K-1420**  
REMOVED FROM  
K-1034

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PGD-4*  
(classification guide)  
ADD signature (first reviewer) *[Signature]* 8/12/94  
Date  
ADD signature (final reviewer) *[Signature]* 2 Sep 94  
Date

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during November, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 6.00 pounds per hour, a venting loss was calculated based on 330.01 hours of operation. Since the K-1420 fluorination facility processed enriched material only during the month, a breakdown of the monthly loss by class is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
"G" Class	211.43 hrs.	75.000	25	18
"H" Class	121.58 hrs.	75.000	18	17

This calculated total monthly loss of 43 grams uranium and 35 grams U-235 will be shown as a measured loss and credited to the 410 and 460 accounts, respectively.

*E. L. Clay*  
E. L. Clay  
*S. S. Stief*  
S. S. Stief

Approved by:

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~



INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company K-303-8  
Location

Date December 15, 1960

Originating Dept. Uranium Control

Answering letter date

UNCLASSIFIED

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-1131 Material Release Report No. 319

KP-1069, Part 96

Date of Release: November 1960  
Location of Release: K-1131  
Material: UF6  
Balance Area Account No: 550  
Class or Assay: "C"  
Amount of Material Involved: 62.88 pounds  
Equipment: K-1131 Vent stack  
Source of Information: K-1131 Process Laboratory  
Details: Known loss of calculated quantity.

K25RC

NOT TO BE LOANED FROM PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control laboratory during November, 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 21 days of operation. Since the K-1131 Feed Plant Facility processed only normal materials during the month, a breakdown of the monthly loss is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	21 days	0.7115	19,286	137

This calculated total monthly loss of 19,286 grams uranium and 137 grams uranium-235 will be shown as a measured loss and credited to 550 account.

*E. L. Clay*  
E. L. Clay

Approved by:

*S. S. Stief*  
S. S. Stief

~~CONFIDENTIAL~~

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PGD-4*  
(classification guide)  
Date: *7/12/94*  
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Date: *250994*  
ADC signature (final reviewer) *[Signature]*

*QA 7/26/95*  
*G.W. Hall*

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date January 5, 1960

Originating Dept. Uranium Control

Answering letter date

UNCLASSIFIED

Copy to  
Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones

Subject K-1131 Material Release Report No. 320

KP-1069, Part 97

Classification changed to: *Unclassified*  
(level and category) CG-PC-D-4  
By authority: *[Signature]*  
Classification guide: 8/12/94  
Date: 2 Sep 94  
ADC signature (first reviewer)  
Date: *[Signature]*  
Date: *[Signature]*  
Date: *[Signature]*

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

December 1960  
K-1131  
UF6  
550  
"C" and "D"  
121.16 pounds  
K-1131 Vent Stack  
K-1131 Process Laboratory  
Known loss of calculated quantity.

**K2ERC**  
NOT TO BE DELETED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during December 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 26 days of operation. Since the K-1131 Feed Plant processed normal and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	9 days	0.7115	7,649	54
Enriched Material	17 days	0.8500	29,512	251
Total			37,161	305

This calculated total monthly loss of 37,161 grams uranium and 305 grams uranium-235 will be shown as a measured loss and credited to 550 account.

*E. L. Clay*  
E. L. Clay

Approved by: *S. S. Stief*  
S. S. Stief

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

UNCLASSIFIED

To (Name) Mr. J. A. Parsons Date January 5, 1961  
 Company K-303-8  
 Location  
 Originating Dept. Uranium Control  
 Answering letter date  
 Copy to Mr. E. C. Bollinger  
 Mr. E. L. Clay  
 Mr. J. Dykstra Subject K-1420 Material Release  
 Mr. R. R. Frazier Mr. W. D. McCluen Report No. 321  
 Mr. T. Hope Mr. H. G. P. Snyder  
 Mr. K. M. Jones Central Files KP-1069, Part 98

Date of Release: December 1960  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No: 410  
 Class or Assay: "F" and "G"  
 Amount of Material Involved: 1.10 pounds  
 Equipment: K-1420 Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known loss of calculated quantity.

**K-1420**

NOTICE REMOVED FROM  
PLANT RECORDS K-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during December 1960, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 291.88 hours of operation. Since the K-1420 Fluorination Facility processed only enriched material during the month, a breakdown of the monthly loss by ranges is shown below:

Feed Material	Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
15 Range	76.75 hours	22.500	31	7
14 Range	109.57 hours	17.500	61	11
13 Range	105.56 hours	12.500	245	31
Total			337	49

This calculated total monthly loss of 337 grams uranium and 49 grams uranium-235 will be shown as a measured loss and credited to 410 account.

*E. L. Clay*  
 E. L. Clay

Approved by:

*S. S. Stief*  
 S. S. Stief

~~RESTRICTED DATA~~

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Classification changed to: *Unclassified*  
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 By authority of: *CG-PGD-4*  
 (classification guide)  
 ADD signature (first reviewer) *[Signature]* 8/12/94  
 Date  
 ADD signature (final reviewer) *[Signature]* 2/29/97  
 Date

**CONFIDENTIAL**



**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

**UNCLASSIFIED**

To (Name) Mr. J. A. Parsons Date January 12, 1961  
 Company  
 Location K-303-8 Originating Dept.  
 Answering letter date  
 Copy to Mr. E. C. Bollinger  
 Mr. E. L. Clay Subject K-631 Material Release  
 Mr. J. Dykstra Report No. 321  
 Mr. R. R. Frazier Mr. W. D. McCluen  
 Mr. T. Hope Mr. H. G. P. Snyder  
 Mr. K. M. Jones Central Files KP-1069, Part 99

Date of Release: January 2, 1961  
 Location of Release: K-631  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 120  
 Class or Assay: "A"  
 Amount of Material Involved: 5 pounds (estimated)  
 Equipment: Cylinder pigtail  
 Source of Information: S. A. Thompson  
 Details: Known loss of estimated quantity.

In the shipping room of the K-631 building, the 12-8 shift operators started draining liquid UF<sub>6</sub> into an empty 2.5-ton chlorine cylinder at approximately 0740 a.m. The operators then went to the control room floor level where they were relieved by the 8-4 shift operators. At 0805 a.m. the 8-4 shift operators went into the shipping room and noticed a release of UF<sub>6</sub>. The release was due to a leaking Teflon gasket where the "pigtail" was connected to the cylinder valve. The operators closed the valve on the liquid drain header and the cylinder valve. The release was estimated to be no more than 5 pounds of UF<sub>6</sub> and no accountability was obtained on the material recovered by decontamination.

The calculated total loss of 1533 grams uranium and 6 grams uranium-235 will be shown as a measured loss and credited to the 120 account.

**NOT TO BE RELEASED FROM PLANT RECORDS K-1034**

Approved by:

*E. L. Clay*  
 E. L. Clay

*S. S. Stiel*  
 S. S. Stiel

*Lapey's list*

Classification changed to: *Unclassified*  
 (level and category) CG-PGD-4  
 (classification guide)  
 By authority of: *[Signature]*  
 Date: 8/12/94  
 ADC of ADD signature (first reviewer) *[Signature]* Date: 2/5/97  
 ADC signature (final reviewer) *[Signature]* Date: 7/26/95  
*[Signature]* *[Signature]*

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**CONFIDENTIAL**



**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY  
UNCLASSIFIED**

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date January 12, 1961  
 Company  
 Location K-303-8 Originating Dept. Uranium Control  
 Answering letter date  
 Copy to Mr. E. C. Bollinger Subject Storage Vault Material  
 Mr. E. L. Clay Release Report No. 322  
 Mr. J. Dykstra Mr. W. D. McCluen  
 Mr. R. R. Frazier Mr. H. G. P. Snyder  
 Mr. T. Hope Central Files  
 Mr. K. M. Jones KP-1069, Part 100

Date of Release: Unknown  
 Location of Release: Vault 16A  
 Material: Laboratory Waste  
 Balance Area Account No.: 920  
 Class or Assay: "D"  
 Amount of Material Involved: 103.37 liters  
 Equipment: One drum  
 Source of Information: J. W. Arendt  
 Details: Known loss of known quantity.

During the routine transfer of SS Materials from storage vault 16-A to K-1420 for recovery, it was found that one drum was empty as a result of a leak which had developed from the corrosive action of the contents of the drum. Listed below is the original data on the contents of the material released:

Drum No.	Material Type	Quantity of Material	Analysis (gu/l)	Assay % U-235	Grams Uranium	Grams U-235
R-4801	864	103.37 liter	8.55	0.8150	884	7

Since no recovery was effected, this total loss of 844 grams uranium and 7 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

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Approved by:

*E. L. Clay*  
 E. L. Clay  
*S. S. Stief*  
 S. S. Stief

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By authority of: C.G.-P.G.D.-4  
 (classification guide)  
 Date 8/12/94  
 ADD signature (first reviewer) [Signature]  
 Date 25/9/97  
 ADD signature (final reviewer) [Signature]  
 Date 8/26/95 S.W. Hall

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date January 24, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. K. M. Jones  
Mr. E. L. Clay Mr. W. D. McCluen  
Mr. J. Dykstra Mr. H. G. P. Snyder  
Mr. R. R. Frazier Central Files  
Mr. T. Hope

Subject Storage Vault Material Release Report No. 323

KP-1069, Part 101

Date of Release: Unknown  
Location of Release: Vault 16-A  
Material: Laboratory Waste  
Balance Area Account No.: 920  
Class or Assay: "E"  
Amount of Material Involved: 198.18 liters  
Equipment: Two drums  
Source of Information: J. W. Arendt  
Details: Known Loss of Known Quantity

REC. FILE X-REF. X-REF.

During the routine transfer of SS materials from storage vault 16-A to K-1420 for recovery, it was found that two drums were empty as a result of a leak which had developed from the corrosive action of the contents of the drum. Listed below is the original data on the contents of the material released:

Drum No.	Material Type	Quantity of Material	Analysis (gu/l)	Assay % U-235	Grams Uranium	Grams U-235
R-3674	864	94.65 liters	1.21 gu/l	0.8630	1,145	10
R-3742	864	103.53 liters	9.39 gu/l	0.8050	869	7
Total		198.18 liters			2,014	17

Since no recovery was effected, this total loss of 2,014 grams uranium and 17 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

QA 7/26/95  
S. W. Hall

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief

classification changed to (level and category) CG-16D-4

(classification guide) 8/12/94 Date 7/26/95  
ADD signature (first reviewer)  
ADD signature (final reviewer)

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ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date February 17, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to E. C. Bollinger  
E. L. Clay  
J. Dykstra  
R. R. Frazier  
T. Hope  
K. M. Jones

W. D. McCluen  
H. G. P. Snyder  
Central Files

Subject K-1069 Material Release  
Report No. 324

KP-1069, Part 102

Date of Release: January 25, 1961  
Location of Release: K-31  
Material: UF<sub>6</sub>  
Balance Area Account No.: 200  
Class or Assay: "A"  
Amount of Material Involved: 676 grams  
Equipment: K-31 Monitors  
Source of Information: R. H. Dyer  
Details: Known loss of known quantity.

On January 25, 1961, a total of 676 grams of UF<sub>6</sub> was released to the atmosphere in K-31. This release was due to the testing of the radiation monitors in the building. The assay of the material released was equivalent to ORGDP tails (0.4197).

Since no recovery was made of this material, this total loss of 676 grams uranium and 3 grams of uranium-235 will be shown as a measured loss and credited to the 200 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PED-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 7/20/94  
ADD signature (final reviewer) Date

QA 7/20/95 [Signature] Approved by:

[Signature]  
E. L. Clay

[Signature]  
S. S. Stief

ELC:vtd

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date February 17, 1961  
 Company  
 Location K-303-8 Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Subject K-1069 Material Release  
 Mr. E. L. Clay Report No. 325  
 Mr. J. Dykstra  
 Mr. R. R. Frazier Mr. W. D. McCluen  
 Mr. T. Hope Mr. H. G. P. Snyder  
 Mr. K. M. Jones Central Files

KP-1069, Part 103  
 Classification changed to: Unclassified  
 (level and category)

By authority of: CG-PGD-4  
 (classification guide)

[Signature] 8/12/94  
 ADD of ADD signature (first reviewer) Date

[Signature] 7 Sep 97  
 ADD signature (final reviewer) Date

QA 7/26/95 D.W. Hall

Date of Release: February 1961  
 Location of Release: K-1131  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 550  
 Class or Assay: "C" and "D"  
 Amount of Material Involved: 212.16 pounds  
 Equipment: K-1131 Vent Stack  
 Source of Information: K-1131 Process Laboratory  
 Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during February, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 27 days of operation. Since the K-1131 feed plant facility processed normal, and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	7 days	0.7115	58,270	415
Enriched Material	20 days	0.9100	6,802	62
Total			65,072	477

This calculated total monthly loss of 65,072 grams uranium and 477 grams uranium-235 will be shown as a measured loss and credited to 550 account.

E. L. Clay  
 E. L. Clay

Approved by:

S. S. Stief  
 S. S. Stief

E.C.:vtd

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date March 13, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H G P. Snyder  
Central Files

Subject K-1420 Material Release  
Report No. 326

KP-1069, Part 104

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay  
Equipment:  
Source of Information:  
Details:

February, 1961  
K-1420  
UF6  
410  
"E"  
K-1420 Vent Stack  
Process Laboratory  
Known loss of Calculated quantity

**K25DC**  
NOT TO BE TAKEN FROM  
PLANT RECORDS IC-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during February, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 105.11 hours of operation processing 1.452% material.

This calculated total monthly loss of 841 grams uranium and 12 grams of uranium-235 will be shown as a measured loss and credited to 410 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

ADC of ADD signature (first reviewer) [Signature] 8/12/94  
Date

E. L. Clay  
E. L. Clay

ADD signature (final reviewer) [Signature] 7 Sep 94  
Date

QA 7/26/95  
[Signature] Approved by:

S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date March 13, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope

Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. H. G. P. Snyder  
Central Files

Subject K-1131 Material Release  
Report No. 327  
KP-1069, Part 105

Date of Release: February, 1961  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "C" and "D"  
Amount of Material Involved: 65.72 Pounds  
Equipment: K-1131 Vent Stack  
Source of Information: Process Laboratory  
Details: Known loss of calculated quantity

**K-1131 C**  
NOT TO BE RELEASED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during February, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 19 days of operation. Since the K-1131 feed plant facility processed normal and enriched materials during the month, a breakdown of the monthly loss by assay is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	15 Days	0.7115	16,249	116
Enriched Material	4 Days	0.9100	3,906	36
Total			20,155	152

This calculated total monthly loss of 20,155 grams uranium and 152 grams uranium-235 will be shown as a measured loss and credited to 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

*E. L. Clay*  
E. L. Clay

*[Signature]* 8/12/94  
ADC or ADD signature (first reviewer) Date

*[Signature]* 7-6-99  
ADD signature (final reviewer) Approved by Date

*[Signature]*  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date April 13, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. L. Clay  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files ✓

Subject K-413 Material Release  
Report No. 329

KP-1069, Part 106

Date of Release:	March 2, 1961
Location of Release:	K-413
Material:	UF <sub>6</sub>
Balance Area Account No.:	210
Class or Assay:	"E"
Amount of Material Involved:	3.0 Pounds
Equipment:	W-2 Pump sight glass
Source of Information:	S. A. Thompson
Details:	Known loss of estimated quantity.

A new sight glass was installed during the 8-4 shift of March 2, 1961, on the W-2 pump in the K-413 building. At 2145, the gasket of the sight glass developed a leak. The amount of material involved was estimated to be less than 3.0 pounds of UF<sub>6</sub> with an assay of 1.200% uranium-235.

Since no recovery was made of this material, this total loss of 920 grams uranium and 11 grams uranium-235 will be shown as a measured loss and credited to the 210 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-RGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 7 Sep 94  
ADD signature (final reviewer) Date

QA 7/26/95 S.W. Hall

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date April 13, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files ✓

Subject K-1420 Material Release  
Report No. 330  
KP-1069, Part 107

Date of Release: March, 1961  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: E  
Amount of Material Involved: 0.97 Pounds  
Equipment: Vent Stack  
Source of Information: K-1420, Process Laboratory  
Details: Known loss of calculated quantity.

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during March, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 242.66 hours of operation processing 1.5% material.

The calculated total monthly loss of 297 grams uranium and 4 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

E. L. Clay  
E. L. Clay

[Signature] 7 Sep 99  
ADD signature (final reviewer) Date

QA 7/26/95 [Signature]  
Approved by:

S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date April 13, 1961

Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files

Subject K-1131 Material Release  
Report No. 331  
KP-1069, Part 108

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

March, 1961  
K-1131  
UF<sub>6</sub>  
550  
C and D  
95.59 Pounds  
Vent Stack  
Process Control Laboratory  
Known loss of calculated quantity

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
[Signature] 8/12/94 Date  
ADC or ADD signature (first reviewer)  
[Signature] 7 Sept Date  
ADD signature (final reviewer)  
@ A 7/26/95 Date  
[Signature]

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during March, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 22 days of operation. Since the K-1131 feed plant facility processed normal and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Normal Material	4 days	0.7115	6,949	49
Enriched Material	18 days	0.8500	22,368	190
Total			29,317	239

This calculated total monthly loss of 29,317 grams uranium and 239 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief  
S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date May 16, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files

Subject K-1420 Material Release  
Report No. 333  
KP-1069, Part 110

Date of Release: April, 1961  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: "E"  
Amount of Material Involved: 7.08 Pounds  
Equipment: Vent Stack  
Source of Information: K-1420 Process Laboratory  
Details: Known loss of calculated quantity.

**K25RC**  
NOT TO BE REMOVED FROM  
PLANT RECORDS K-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during April, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 445.69 hours of operation processing 1.5% material.

This calculated total monthly loss of 2,171 grams uranium and 33 grams uranium-235 will be shown as a measured loss and credited to 410 account.

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief  
S. S. Stief

SSS:ELC/jc

UNCLASSIFIED

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 7/26/95  
ADD signature (final reviewer) Date

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date May 16, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier

Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files

Subject K-1131 Material Release  
Report No. 334  
KP-1069, Part III

Date of Release: April, 1961  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B", "C", and "D"  
Amount of Material Involved: 211.40 Pounds  
Equipment: Vent Stack  
Source of Information: K-1131 Process Laboratory  
Details: Known loss of calculated quantity.

K-1131  
NOT TO BE RELEASED FROM  
PLANT AREA WITHOUT K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during April, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 19 days of operation. Since the K-1131 feed plant facility processed normal, depleted, and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Material	10 days	0.6500	25,808	168
Normal Material	3 days	0.7115	6,690	48
Enriched Material	6 days	0.8500	32,344	275

This calculated total monthly loss of 64,842 grams uranium and 491 grams uranium-235 will be shown as a measured loss and credited to 550 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date

[Signature] 7 Sep 94  
ADD signature (final reviewer) Date

QA 7/28/95 [Signature] Approved by:

[Signature]  
E. L. Clay

[Signature]  
S. S. Stief

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SSS:ELC/je

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date May 23, 1961

Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger  
Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier

Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files  
Mr. J. H. O'Brien

Subject K-1004-L Material Release  
Report No. 335  
KP-1069, Part 112

Date of Release: April, 1961  
Location of Release: "J" Laboratory  
Material: Laboratory Waste  
Balance Area Account No.: 560  
Class or Assay: "C"  
Amount of Material Involved: 200 grams uranium  
Equipment: Glass Traps  
Source of Information: Mr. J. H. O'Brien  
Details: Known loss of estimated quantity.

During the routine dumping and cleaning operations of two glass traps in "J" Laboratory, a rupture occurred releasing material to the atmosphere. The amount of material released was estimated to be approximately 200 grams uranium with an assay of 1.500% uranium-235.

Since no recovery was made of this material, this total loss of 200 grams uranium and 3 grams uranium-235 will be shown as a measured loss and credited to the 560 account.

K-1034

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

Approved:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

ADC or ADD signature (first reviewer) P. Longstre 8/12/94 Date

ADD signature (final reviewer) Peter J. ... 7 Sep 99 Date

QA 7/24/95 J. W. Hall

ELC:je

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 8, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files

Subject K-1131 Material Release  
Report No. 336  
KP-1069, Part 113

Date of Release: May 13, 1961  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No. 550  
Class or Assay: "B"  
Amount of Material Involved: 300 Pounds  
Equipment: "K" Cold Trap  
Source of Information: E. L. Halstead  
Details: Known loss of estimated quantity

During the normal heating operations of "K" cold trap in the K-1131 building, a steam-heating tube ruptured releasing UF<sub>6</sub> to the atmosphere. The amount of material released was estimated to be approximately 300 pounds with an assay of 0.6500% uranium-235.

For accountability purposes, no recovery was made of this material; therefore, this total loss of 92,015 grams uranium and 598 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

*Legacy's list*

**K25RC**  
NOT TO BE DELETED FROM  
PLANT RECORDS K-1034

*E. L. Clay*  
E. L. Clay

Approved by: *W.D. McCluen*  
for S. S. Stief

ELC:jc

UNCLASSIFIED

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-RGD-4*  
(classification guide)  
*P. R. Longhena* 8/12/94  
ADD or ADD signature (first reviewer) Date  
*W. D. McCluen* 7 Sep 94  
ADD signature (final reviewer) Date  
QA 7/26/95 S.W. Hall

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UNCLASSIFIED



INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 8, 1961

Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files

Subject K-1131 Material Release  
Report No. 337  
KP-1069, Part 114

Date of Release: May 19, 1961  
Location of Release: K-1131  
Material: UF6  
Balance Area Account No.: 550  
Class or Assay: "B"  
Amount of Material Involved: 20 Pounds  
Equipment: Process piping  
Source of Information: E. L. Halstead  
Details: Known loss of estimated quantity.

During the normal operation of attempting to locate and remove a restriction in the K-1131 building process piping, the cold traps were intermittently bypassed, permitting the process gas (UF6) to flow directly to the building vent stack. The amount of material vented was estimated to be approximately 20 pounds with an assay of 0.6500% uranium-235.

Since no recovery was made of this material, this total loss of 6,134 grams uranium and 40 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

*Legacy's List*

~~CONFIDENTIAL~~

NOTICE: REMOVED FROM PLANT RECORDS K-1034  
Approved by:

*E. L. Clay*  
E. L. Clay

*W.D.M. Stief*  
S. S. Stief

ELC:jc

Classification changed to: *Unclassified*  
(level and category)

By authority of: *CG-PGD-4*  
(classification guide)

*[Signature]* 8/12/94  
ADC or ADD signature (first reviewer) Date

*[Signature]* 7 Sep 69  
ADD signature (final reviewer)  
QA 7/26/95 *[Signature]*

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UNCLASSIFIED

**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 8, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files

Subject K-1131 Material Re  
Report No. 338  
KP-1069, Part 11

Date of Release: May, 1961  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: "B" and "D"  
Amount of material Involved: 284.57 Pounds  
Equipment: Vent Stack  
Source of Information: K-1131 Process Laboratory  
Details: Known loss of calculated quantity.

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PGD-4*  
(classification guide)  
APC of ADD signature (first reviewer) *[Signature]* 8/12/94 Date  
ADD signature (final reviewer) *[Signature]* 7/26/94 Date  
QA *[Signature]* 7/26/94 Date

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during May, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 25 days of operation. Since the K-1131 feed plant facility processed depleted, and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted	18 days	0.6500	41,952	273
Enriched	7 days	0.8500	45,328	385
		Total	87,280	658

This calculated total monthly loss of 87,280 grams uranium and 658 grams uranium-235 will be shown as a measured loss and credited to 550 account.

**K-1131**

NOT TO BE RELEASED FROM  
PLANT RECORDS K-1034

*E. L. Clay*  
E. L. Clay

*[Signature]*  
W. S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 8, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files

Subject K-1420 Material Release  
Report No. 339  
KP-1069, Part 116

Date of Release: May, 1961  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: "E"  
Amount of Material Involved: 4.55 Pounds  
Equipment: Vent Stack  
Source of Information: K-1420 Process Laboratory  
Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during May, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 400.86 hours of operation processing 1.5% material.

This calculated total monthly loss of 1,396 grams uranium and 21 grams uranium-235 will be shown as a measured loss and credited to 410 account.

K-1420  
NOT TO BE REMOVED FROM  
PLANT RECORDS K-1034

*E. L. Clay*  
E. L. Clay

Approved by:

*W.D. McCluen*  
for S. S. Stief

ELC:jc

Classification changed to: *Unclassified*  
(level and category)  
By authority of: *CG-PGD-4*  
(classification guide)  
ADC or ADD signature (first reviewer) *[Signature]* 8/12/94 Date  
ADD signature (final reviewer) *[Signature]* 7/26/95 Date  
*Q.A. 7/26/95*  
*G.W. Hill*

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date June 15, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. C. Bollinger Mr. T. Hope  
Mr. E. L. Clay Mr. K. M. Jones  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Mr. J. H. O'Brien  
Central Files

Subject K-1004-J Material Release  
Report No. 340

KP-1069, Part 117

Date of Release:  
Location of Release:  
Material:  
Balance Area Account No.:  
Class or Assay:  
Amount of Material Involved:  
Equipment:  
Source of Information:  
Details:

May 23, 1961  
K-1004-J

Laboratory Waste  
560  
1/500%  
350 grams U  
Glass collection trap  
J. H. O'Brien  
Known loss of estimated quantity

**K25RC**

**NOT TO BE LOANED FROM  
PLANT RECORDS K-1034**

During the routine cleaning operations of a glass collection trap in K-1004-J Laboratory, a rupture occurred resulting in the loss of the collected cleaning solution. The amount of material released was estimated to be approximately 350 grams uranium with an assay of 1.500% uranium-235.

Since no recovery was made of this material, this total loss of 350 grams uranium and 5 grams uranium-235 will be shown as a measured loss and credited to the 560 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-R&D-4  
(classification guide)

[Signature] 8/12/94  
ADC or ADD signature (first reviewer) Date  
[Signature] 7 Sep 94  
ADD signature (final reviewer) Date

QA 7/26/95 B.W. Hall

Approved:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

ELC:ic

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
 Company  
 Location K-303-8

Date July 20, 1961

Originating Dept. Production Engineering

Answering letter date

Copy to Mr. E. L. Clay  
 Mr. J. Dykstra Mr. K. M. Jones  
 Mr. R. R. Frazier Mr. W. D. McCluen  
 Mr. T. Hope Central Files

Subject K-1131 Material Release  
 Report No. 341  
 KP-1069, Part 118

Date of Release: June, 1961  
 Location of Release: K-1131  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 550  
 Class or Assay: "B" and "D"  
 Amount of Material Involved: 293.33 Pounds  
 Equipment: Vent Stack  
 Source of Information: K-1131 Process Laboratory  
 Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during June, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 22 days of operation. Since the K-1131 feed plant facility processed depleted and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U 235
Depleted Material	19 days	0.6500	76,095	495
Enriched Material	3 days	0.8500	13,872	118
Total			89,967	613

This calculated total monthly loss of 89,967 grams uranium and 613 grams uranium-235 will be shown as a measured loss and credited to 550 account.

Classification changed to: Unclassified  
 (level and category)

By authority of: CG-PGD-4  
 (classification guide)

[Signature] 8/12/64  
 ADC or ADD signature (first reviewer) Date

[Signature] 7/26/64  
 ADD signature (final reviewer) Date

Approved by: [Signature]  
 QA 7/26/64

[Signature]  
 E. L. Clay

[Signature]  
 S. S. Stief

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CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE. TENNESSEE

To (Name) Mr. J. A. Parsons ✓  
Company  
Location K-303-8

Date July 20, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra Mr. K. M. Jones  
Mr. R. R. Frazier Mr. W. D. McCluen  
Mr. T. Hope Central Files

Subject K-1420 Material Release  
Report No. 342  
KP-1069, Part 119

Classification changed to: Unclassified  
(level and category)

By authority of: CG-PGD-4  
(classification guide)

Date of Release: June, 1961  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: "E"  
Amount of Material Involved: 2.41 Pounds  
Equipment: Vent Stack  
Source of Information: K-1420 Process Laboratory  
Details: Known loss of calculated quantity.

June, 1961  
K-1420  
UF<sub>6</sub>  
410  
"E"  
2.41 Pounds  
Vent Stack  
K-1420 Process Laboratory  
Known loss of calculated quantity.

ADC ADD signature (first reviewer) Date  
[Signature] 8/12/94  
ADD signature (final reviewer) Date  
QA 7/22/95 S.W. Hall 7 Sep 94

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during June, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 233.21 hours of operation processing 3.65% material.

This calculated total monthly loss of 738 grams uranium and 27 grams uranium-235 will be shown as a measured loss and credited to 410 account.

E. L. Clay  
E. L. Clay

Approved by:

S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date July 20, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. L. Clay  
Mr. R. H. Dyer Mr. K. M. Jones  
Mr. R. R. Frazier Mr. W. D. McCluen  
Mr. T. Hope Central Files

Subject K-33 Material Release  
Report No. 343

KP-1069, Part 120

Date of Release: June 3, 1961  
Location of Release: K-33 Feed Room  
Material: UF<sub>6</sub>  
Balance Area Account No.: 115  
Class or Assay: "E"  
Amount of Material Involved: 6.00 Pounds  
Equipment: PPF Feed Vaporizer and Lines  
Source of Information: R. H. Dyer  
Details: Known loss of calculated quantity.

During the routine feeding operations of a PPF cylinder in the K-33 feed room, the operator inadvertently valved the cylinder to feed through the purge header instead of the usual feed header for PPF material. This misvalving operation, although brief in time, resulted in a loss of approximately 6.0 pounds of uranium hexafluoride to the atmosphere.

Since no recovery was made of this material, this total loss of 1,840 grams uranium and 29 grams uranium-235 will be shown as a measured loss and credited to the 115 account.

Classification changed to: Unclassified  
(level and category)  
By authority of: CG-PGD-4  
(classification guide)  
ADC or ADD signature (first reviewer) [Signature] Date 8/12/94  
ADD signature (final reviewer) [Signature] Date 7 Sep 94  
QA 7/26/95 [Signature] Approved by:

E. L. Clay  
E. L. Clay  
*Legacy list*  
*Correction made on assay*  
[Signature]  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date July 20, 1961  
Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. L. Clay Mr. W. D. McCluen  
Mr. R. R. Frazier Mr. R. J. Wertz  
Mr. T. Hope Central Files

Subject K-1004-A Material Release  
Report No. 344  
KP-1069, Part 121

Date of Release: May 10, 1961  
Location of Release: K-1004-A Laboratory  
Material: Impure UF<sub>6</sub>  
Balance Area Account No.: 810  
Class or Assay: "C"  
Amount of Material Involved: 1860 Grams  
Equipment: Harshaw Sample Bomb  
Source of Information: R. J. Wertz  
Details: Known loss of calculated quantity.

During the routine operations of analyzing a Harshaw type sample in K-1004-A Laboratory, a hydrostatic pressure failure of the bonnet of the valve on the sample cylinder released approximately 1860 grams of impure uranium hexafluoride of normal assay material to the atmosphere.

Since no recovery was made of this material, this total loss of 1,152 grams uranium and 8 grams uranium-235 will be shown as a measured loss and credited to the 810 account.

Classification changed to: Unclassified  
(level and category)

By authority of: CG-RGD-4  
(classification guide)

*Legacy list correction made on # of grams*

[Signature] 8/12/94  
Date

E. L. Clay  
E. L. Clay

[Signature] 7 Sep 94  
Date

QA 7/26/95  
[Signature]

Approved by: [Signature]  
S. S. Stief

ELC:je

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

**(This section to be completed by subcontractor requesting document)**

J. Lamb / 1035A  
Requestor Document Center (is requested to provide the following document)

Date of request 12/6/95 Expected receipt of document \_\_\_\_\_

Document number KP-2220 pgs 1-35 Date of document 1961-1964

Title and author (if document is unnumbered)  
\_\_\_\_\_  
\_\_\_\_\_

**(This section to be completed by Document Center)**

Date request received \_\_\_\_\_ 12/6/95

Date submitted to ADC \_\_\_\_\_ 12/7/95

Date submitted to HSA Coordinator \_\_\_\_\_ 12/6/95

**(This section to be completed by HSA Coordinator)**

Date submitted to CICO \_\_\_\_\_ 12/7/95

Date received from CICO \_\_\_\_\_ 12/7/95

Date submitted to ChemRisk/Shonka and DOE \_\_\_\_\_ 12/11/95

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

Date document received \_\_\_\_\_

Signature \_\_\_\_\_

KP-2220/PT1-35

**MATERIAL RELEASE REPORT NOS. 345-379**

**E. L. Clay**  
**Uranium Control Department**  
**OAK RIDGE GASEOUS DIFFUSION PLANT**  
**Oak Ridge, Tennessee**

1961-1964

**UNION CARBIDE NUCLEAR COMPANY**  
**Operating Contractor**  
**for the U.S. ATOMIC ENERGY COMMISSION**

This document has been approved for release  
to the public by:

*Sam W. Hall* on ASQ 12/7/95  
Technical Information Officer Date  
Oak Ridge K-25 Site



**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date August 11, 1961  
Originating Dept. Uranium Control  
Answering letter date

Copy to Mr. E. L. Clay Mr. K. M. Jones Subject  
Mr. J. Dykstra Mr. W. D. McCluen  
Mr. R. R. Frazier Central Files  
Mr. T. Hope

K-1420 Material Release  
Report No. 345  
KP-2220, Part 1

Date of Release: July, 1961  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: E  
Amount of Material Involved: 2.96 Pounds  
Equipment: Vent Stack  
Source of Information: K-1420 Process Laboratory  
Details: Known loss of calculated quantity.

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during July, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 322.39 hours of operation processing 3.900% material.

This calculated total monthly loss of 907 grams uranium and 35 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

**K25RC**

NOT TO BE LOANED FROM  
PLANT RECORDS K-1034

*E. L. Clay*  
E. L. Clay

Approved:

*S. S. Stief*  
S. S. Stief

ELC:SSS:jc

Classification changed to: UNCLASSIFIED  
(level and category)

*J. D. McLaughlin* 9/29/64  
J. D. McLaughlin Date

*R. C. Condit* 7/30/64  
R. C. Condit Date

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**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-8

Date August 11, 1961

Originating Dept. Uranium Control

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files

Subject K-1131 Material Release  
Report No. 346  
KP-2220, Part 2

Date of Release: July, 1961  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay: B and D  
Amount of Material Involved: 75.99 Pounds  
Equipment: Vent Stack  
Source of Information: K-1131 Process Laboratory  
Details: Known loss of calculated quantity.

**K25RC**  
NOT TO BE RELEASED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during July, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 22 days of operation. Since the K-1131 feed plant facility processed depleted and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted Material	13 Days	0.6500	4,295	28
Enriched Material	9 Days	0.8500	19,013	162
		Total	23,308	190

This calculated total monthly loss of 24,308 grams uranium and 190 grams uranium-235 will be shown as a measured loss and credited to 550 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. D. McCaughy 9/29/64  
ADU or ADU signature (first reviewer) Date

J. D. McCaughy 9/30/64  
ADU signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved:

S. S. Stief  
S. S. Stief

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RLC-jc

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons ✓ Date September 14, 1961  
 Company \_\_\_\_\_  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date \_\_\_\_\_

Copy to Mr. E. L. Clay Subject K-1420 Material Release  
 Mr. J. Dykstra Mr. K. M. Jones Report No. 347  
 Mr. R. R. Frazier Mr. W. D. McCluen  
 Mr. T. Hope Central Files KP-2220, Part 3

Date of Release: August, 1961  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: •E  
 Amount of Material Involved: 1.90 pounds  
 Equipment: Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known Loss of Calculated Quantity.

**K25RC**

NOT TO BE KEPT FROM  
PLANT RECORDS K-1034

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during August, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 257.00 hours of operation processing 3.15% material.

This calculated total monthly loss of 582 grams uranium and 18 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. D. Mc Gough 9/29/64  
ADD or ADD signature (first reviewer) Date

[Signature] 9/30/64  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved:

S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date September 14, 1961  
Originating Dept. Production Engineering  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra Mr. K. M. Jones  
Mr. R. R. Frazier Mr. W. D. McCluen  
Mr. T. Hope Central Files

Subject K-1131 Material Release  
Report No. 348  
KP-2220, Part 4

Date of Release: August, 1961  
Location of Release: K-1131  
Material: UF<sub>6</sub>  
Balance Area Account No.: 550  
Class or Assay B and D  
Amount of Material Involved: 134.73 Pounds  
Equipment: Vent Stack  
Source of Information: K-1131 Process Laboratory  
Details: Known Loss of calculated quantity.

**K25RC**

NOT TO BE RECORDED FROM  
PLANT RECORDS K-1034

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during August, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 23 days of operation. Since the K-1131 feed plant facility processed depleted and enriched materials during the month, a breakdown of the monthly loss by types is shown below:

Feed Material	Period of Operation	Material Assay	Total Loss	
			Grams U	Grams U-235
Depleted	10 days	0.6500	10,742	70
Enriched	13 days	0.8500	30,582	260

This calculated total monthly loss of 41,324 grams uranium and 330 grams uranium-235 will be shown as a measured loss and credited to 550 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSMcCaughy 9/29/94  
ADU or ADU signature (first reviewer) Date

AS Condit 9/30/94  
ADU signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved: S. S. Stief  
S. S. Stief

~~SECRET~~

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date October 16, 1961  
Originating Dept. Production Engineering

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files

Subject K-1420 Material Release  
Report No. 349  
KP-2220, Part 5

Date of Release:	September, 1961
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	E
Amount of Material Involved:	0.10 Pounds
Equipment:	Vent Stack
Source of Information:	K-1420 Process Laboratory
Details:	Known loss of calculated quantity.

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during September, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 105.47 hours of operation processing 2.841% material.

This calculated total monthly loss of 31 grams uranium and 1 gram uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. M. Coughlin 9/29/94  
ADC or ADD signature (first reviewer) Date

[Signature] 9/30/94  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved: [Signature]  
S. S. Stief

SSS:ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons Date October 16, 1961  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date

Copy to Mr. E. L. Clay Mr. K. M. Jones Subject K-1131 Material Release  
 Mr. J. Dykstra Mr. W. D. McCluen Report No. 350  
 Mr. R. R. Frazier Central Files ✓  
 Mr. T. Hope KP-2220, Part 6

Date of Release: September, 1961  
 Location of Release: K-1131  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 550  
 Class or Assay: E  
 Amount of Material Involved: 79.38 Pounds  
 Equipment: Vent Stack  
 Source of Information: K-1131 Process Laboratory  
 Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during September, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 20 days of operation processing 0.9200% material.

This calculated total monthly loss of 24,347 grams uranium and 224 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

Classification changed to: UNCLASSIFIED  
 (level and category)  
 J. J. McBay 9/29/64  
 ADC or ADD Signature (first reviewer) Date  
 J. J. McBay 9/30/64  
 ADC Signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved: S. S. Stief  
 S. S. Stief

SSS:ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date November 13, 1961  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date

Copy to Mr. E. L. Clay Mr. K. M. Jones Subject K-1420 Material Release  
 Mr. J. Dykstra Mr. W. D. McCluen Report No. 351  
 Mr. R. R. Frazier Central Files ✓  
 Mr. T. Hope  
 KP-2220, Part 7

Date of Release: October, 1961  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 460  
 Class or Assay: F  
 Amount of Material Involved: 0.07 Pound of UF<sub>6</sub>  
 Equipment: Vent Stack  
 Source of Information: K-1131 Process Laboratory  
 Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during October, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 62.50 hours of operation processing 6.886% material.

This calculated total monthly loss of 20 grams uranium and 1 gram uranium-235 will be shown as a measured loss and credited to the 460 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. S. V. [Signature] 9/29/64

ADC or ADP signature (first reviewer) Date

[Signature] 9/30/64

ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved:

S. S. Stief  
 S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date November 13, 1961  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date

Copy to Mr. E. L. Clay Mr. K. M. Jones Subject K-1131 Material Release  
 Mr. J. Dykstra Mr. W. D. McCluen Report No. 352  
 Mr. R. R. Frazier Central Files  
 Mr. T. Hope KP-2220, Part 8

Date of Release: October, 1961  
 Location of Release: K-1131  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 550  
 Class or Assay: E  
 Amount of Material Involved: 63.13 Pounds  
 Equipment: Vent Stack  
 Source of Information: Process Laboratory  
 Details: Known loss of calculated quantity.

The K-1131 vent stack was sampled periodically by the Process Control Laboratory during October, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 200 pounds per hour, a venting loss was calculated, based on 18.33 days of operation. The K-1131 feed plant facility processed only Y-12 oxide (0.92% uranium-235) material during the month.

This calculated total monthly loss of 19,363 grams uranium and 178 grams uranium-235 will be shown as a measured loss and credited to 550 account.

Classification changed to: UN CLASSIFIED  
 (level and category)

J. J. McBayh 9/29/64  
 ADD or ASD signature (first reviewer) Date  
Mr. Condit 9/30/64  
 ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved: S. S. Stief  
 S. S. Stief

ELC:jc

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE TENNESSEE**

To (Name) Mr. J. A. Parsons Date December 13, 1961  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date

Copy to Mr. E. L. Clay Mr. K. M. Jones Subject K-1420 Material Release  
 Mr. J. Dykstra Mr. W. D. McCluen Report No. 353  
 Mr. R. R. Frazier Central Files ✓  
 Mr. T. Hope KP-2220, Part 9

Date of Release: November, 1961  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: F  
 Amount of Material Involved: 0.39 Pound  
 Equipment: Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during November, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 121.16 hours of operation processing 7.013% material.

This calculated total monthly loss of 120 grams uranium and 8 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
 (level and category)

JDMcBaugh 9/22/64  
 ADD or ADD signature (first reviewer) Date

[Signature] 7/30/64  
 ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

S. S. Stief  
 S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date December 15, 1961  
 Company Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date  
 Copy to Mr. E. L. Clay Subject K-1413 Material Release  
 Mr. R. R. Frazier Report No. 354  
 Mr. T. Hope  
 Mr. H. L. Kaufman KP-2220, Part 10  
 Mr. W. D. McCluen  
 Central Files ✓

Date of Release: November 13, 1961  
 Location of Release: K-1413  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 510  
 Class or Assay: A  
 Amount of Material Involved: 630 Pounds (estimated)  
 Equipment: Cylinder D-38231 (2.5 Ton)  
 Source of Information: H. L. Kaufman  
 Details: Known loss of estimated quantity

During the normal operations of processing uranium hexafluoride (Paducah tails material) in the K-1413 building, a material release occurred. This release, occurring at 0500 hours on November 13, 1961, resulted when a 2.5-ton shipping container (D-38231) was being valved into the system. A packing gland ruptured, releasing some 630 pounds of uranium hexafluoride to the atmosphere, whose assay is 0.2233% uranium-235.

Since no recovery of this material could be made, the total loss of 193,203 grams uranium and 431 grams uranium-235 will be shown as a measured loss and credited to the 510 account.

*Legacy just filled in Assay*

Classification changed to: UNCLASSIFIED  
(level and category)

*J. D. McLaughlin* 9/29/94  
ADC or ADD signature (first reviewer) Date

*J. D. McLaughlin* 9/30/94  
ADD signature (final reviewer) Date

OK 082ms 10/6/94 Approved By:

*E. L. Clay*  
E. L. Clay

*S. S. Stief*  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date January 12, 1962  
Originating Dept. Production Engineering  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope

Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files

Subject K-1420 Material Release  
Report No. 355  
KP-2220, Part 11

Date of Release:	December, 1961
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay	F
Amount of Material Involved:	0.20 pounds
Equipment:	Vent Stack
Source of Information	K-1420 Process Laboratory
Details:	Known Loss of Calculated Quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during December, 1961, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 72.83 hours of operation processing 6.155% material.

This calculated total monthly loss of 63 grams uranium and 4 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. S. McLaughlin 9/29/64  
ABC or ADD signature (first reviewer) Date

[Signature] 9/30/64  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

Approved By:

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date January 31, 1962  
Originating Dept. Production Engineering

Answering letter date

Copy to Mr. E. L. Clay  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. N. B. Schultz  
Central Files ✓

Subject K-1001 Material Release  
Report No. 356

KP-2220, Part 12

Date of Release:	Unknown
Location of Release:	Works Laboratory
Material:	UO <sub>3</sub>
Balance Area Account No.:	690
Class or Assay:	610
Amount of Material Involved:	182.40 grams
Equipment:	Filter testing device
Source of Information:	N. B. Schultz
Details:	Known loss of calculated quantity

Uranium trioxide material contained in the 690 account is used for testing respirator cartridges and filter paper used in field sampling. These filters are sent to the Works Laboratory for uranium extraction and alpha counting. This operation for the past year has used 182.40 grams of powder.

This calculated loss of 152 grams uranium and 10 grams uranium-235 will be shown as a measured loss and credited to the 690 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSMcBay 9/29/94

ADC or ADD signature (first reviewer) Date

W. Condit 9/30/94

ADD signature (final reviewer) Date

Approved By:

E. L. Clay  
E. L. Clay

W. D. McCluen  
for S. S. Stief

ELC:jc

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CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY •

POST OFFICE BOX F, OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date February 13, 1962  
Originating Dept. Production Engineering

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Central Files ✓

Subject K-1420 Material Release  
Report No. 357

KP-2220, Part 13

Date of Release:	January, 1962
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	F
Amount of Material Involved:	0.36 Pounds
Equipment:	Vent Stack
Source of Information:	K-1420 Process Laboratory
Details:	Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during January, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 79.16 hours of operation processing 7.925% material.

This calculated total monthly loss of 112 grams uranium and 9 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to UNCLASSIFIED  
(and all changes)

J. M. Bayh 9/29/94  
Signature (final reviewer) Date

[Signature] 9/30/94  
Signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved By: S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date March 12, 1962  
Originating Dept. Production Engineering  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. W. D. McCluen  
Central Files ✓

Subject K-1420 Material Release  
Report No. 358  
  
KP-2220, Part 14

Date of Release:	February, 1962
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	F
Amount of Material Involved:	0.80 Pounds
Equipment:	Vent Stack
Source of Information:	K-1420 Process Laboratory
Details:	Known Loss of Calculated Quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during February, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 59.64 hours of operation processing 15.70% material.

This calculated total monthly loss of 245 grams uranium and 39 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to UNCLASSIFIED  
(level and category)

JSM/Bugh 9/29/94

ADC or ADD signature (first reviewer) Date

R. Conlith 9/30/94  
ADD signature (final reviewer) Date

J. F. Hudson  
for E. L. Clay

S. S. Stief  
S. S. Stief

ELC:jc

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE\***

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date April 10, 1962  
Originating Dept. PRODUCTION ENGINEERING  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. Dykstra  
Mr. R. R. Frazier  
Mr. T. Hope  
Mr. W. D. McCluen  
Central Files ✓

Subject K-1420 Material Release  
Report No. 359  
  
KP-2220, Part 15

Date of Release:	March, 1962
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	G
Amount of Material Involved:	0.61 pounds
Equipment:	Vent Stack
Source of Information:	Process Laboratory
Details:	Known Loss of Calculated Quantity.

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during March, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 95.75 hours of operation.

This calculated total monthly loss of 187 grams uranium and 70 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSMcBain 9/29/94  
ADC or ADD signature (first reviewer) Date

[Signature] 9/30/94  
ADD signature (final reviewer) Date

Approved By:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

SSS:ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons  
 Company  
 Location K-303-7

Date April 16, 1962

Originating Dept. Production Engineering

Answering letter date

Copy to Mr. E. L. Clay  
 Mr. J. Dykstra  
 Mr. R. R. Frazier  
 Mr. T. Hope  
 Mr. W. D. McCluen  
 Central Files ✓

Subject K-1420 Material Release  
 Report No. 360

KP-2220, Part 16

Date of Release: March 16, 1962  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: G  
 Amount of Material Involved: 6,078 gms. U, 2,490 gms. U-235  
 Equipment: Oxide Fluorination Facility  
 Source of Information: J. Dykstra  
 Details: Known loss of estimated quantity

During the routine operations of processing oxide to UF<sub>6</sub>, a material release was experienced in the K-1420 fluorination facility. This release occurred when a cold trap boundary valve failed, permitting UF<sub>6</sub> from a full cold trap that was being drained to flow backward through the system to the atmosphere via the fluorination tower reactor.

A total of 6,078 grams uranium and 2,490 grams of uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
 (Level and category)

JDM/BAH 9/29/94  
 ADC or ADD signature (first reviewer) Date

W. C. [unclear] 7/30/94  
 ADD signature (final reviewer) Date

*Legacy's best*

E. L. Clay  
 E. L. Clay

Approved By: S. S. Stief  
 S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE TENNESSEE

To (Name) Mr. J. A. Parsons  
Company  
Location K-303-7

Date May 8, 1962  
Originating Dept. Production Engineering

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. H. L. Kaufman  
Mr. W. D. McCluen  
Central Files ✓

Subject K-1413 Material Release  
Report No. 361  
  
KP-2220, Part 17

Date of Release: March 2, 1962  
Location of Release: K-1413  
Material: UF<sub>6</sub>  
Balance Area Account No.: 510  
Class or Assay: A  
Amount of Material Involved: 12.0 pounds  
Equipment: Process lines  
Source of Information: H. L. Kaufman  
Details: Known loss of estimated quantity

On March 2, 1962, at 1:30 p.m., a section of 1/2-inch diameter process tubing ruptured, releasing uranium hexafluoride into B-room of K-1413. The rupture occurred when a section of pipe became damaged by excessive heat while silver soldering an adjacent joint.

A total of 3,681 grams uranium and 8 grams uranium-235 will be shown as a measured loss and credited to the 510 account.

Classification changed to UNCLASSIFIED  
(level and category)

*Legacy's list filled in release unit*

J. S. McCaugh 9/29/94  
ADC or ADD signature (first reviewer) Date

E. L. Clay  
E. L. Clay

[Signature] 9/30/94  
ADD signature (final reviewer) Date

Approved: [Signature]  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P OAK RIDGE, TENNESSEE

To (Name) Mr. J. A. Parsons Date May 8, 1962  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date  
 Copy to Mr. E. L. Clay Subject K-1420 Material Release  
 Mr. J. A. Corn Report No. 362  
 Mr. J. Dykstra  
 Mr. T. Hope  
 Mr. W. D. McCluen  
 Central Files ✓ KP-2220, Part 18

Date of Release: April, 1962  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: E  
 Amount of Material Involved: 0.13 pounds  
 Equipment: Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during April, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 265.29 hours of operation.

The calculated total monthly loss of 40 grams uranium and 0 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
 (level and category)

JSMcLaughlin 9/29/94  
 ADC or ADD signature (first reviewer) Date  
AS Condit 9/30/94  
 ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved: W.D. McCluen  
 for S. S. Stief

ELC:jc

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UNION  
CARBIDE

INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. M. F. Schwenn Date June 18, 1962  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date

Copy to Mr. E. L. Clay Subject K-1420 Material Release  
 Mr. J. A. Corn Report No. 363  
 Mr. T. Hope  
 Mr. W. D. McCluen KP-2220, Part 19  
 Mr. R. L. Newton  
 Central Files ✓

Date of Release: May, 1962  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: E  
 Amount of Material Involved: 0.76 Pounds  
 Equipment: Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during May, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 395.58 hours of operation.

This calculated total monthly loss of 234 grams uranium and 3 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
 (level and category)

JJM [Signature] 9/29/64  
 ABC or ADD signature (first reviewer) Date  
 [Signature] 9/30/64  
 ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved:

[Signature]  
 S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker Date September 18, 1962  
 Company  
 Location K-303-7 Originating Dept. Production Engineering  
 Answering letter date

Copy to Mr. E. L. Clay Subject K-1420 Material Release  
 Mr. J. A. Corn Report No. 364  
 Mr. W. D. McCluen  
 Mr. R. L. Newton  
 Central Files ✓ KP-2220, Part 20

Date of Release: June, 1962  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: E  
 Amount of Material Involved: 0.17 Pounds  
 Equipment: Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during June, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 276.93 hours of operation processing 1.300% material.

This calculated total monthly loss of 51 grams uranium and 1 gram uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
 (level and category)  
 JSMcCoy 9/29/94  
 ABC or ADD signature (first reviewer) Date  
 J. Condit 9/30/94  
 ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved: Stanley Stief  
 S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date September 18, 1962  
Originating Dept. Production Engineering

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Production Div. File ✓

Subject K-1420 Material Release  
Report No. 365

KR-2220, Part 21

Date of Release:	July, 1962
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	B
Amount of Material Involved:	0.03 Pounds
Equipment:	Vent Stack
Source of Information:	K-1420 Process Laboratory
Details:	Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during July, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 180.04 hours of operation processing 1.36% material.

This calculated total monthly loss of 10 grams uranium and 0 grams uranium-235 will be shown as a measured loss and credited to 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSMcCluen 9/21/62  
ADG or ADG signature (first reviewer) Date

[Signature] 7/30/94  
ADG signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved: S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker Date September 18, 1962  
 Company \_\_\_\_\_  
 Location K-303-7 Originating Dept. Production Engineering  
 \_\_\_\_\_  
 \_\_\_\_\_ Answering letter date \_\_\_\_\_  
 Copy to Mr. E. L. Clay Subject K-1420 Material Release  
 Mr. J. A. Corn Report No. 366  
 Mr. T. Hope  
 Mr. W. D. McCluen  
 Mr. R. L. Newton  
 Central File ✓ KP-2220, Part 22

Date of Release: August, 1962  
 Location of Release: K-1420  
 Material: UF<sub>6</sub>  
 Balance Area Account No.: 410  
 Class or Assay: E  
 Amount of Material Involved: 21.61 Pounds  
 Equipment: Vent Stack  
 Source of Information: K-1420 Process Laboratory  
 Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Control Laboratory during August, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 471.59 hours of operation processing 1.34% material.

This calculated total monthly loss of 6,628 grams uranium and 90.1 grams uranium-235 will be shown as a measured loss and credited to 410 account.

Classification changed to UNCLASSIFIED  
 (level and category)

J. M. Bayly 9/29/64  
 ABC or ADD signature (first reviewer) Date  
W. Condit 9/30/64  
 ADD signature (final reviewer) Date

Edward Clay  
 E. L. Clay  
S. S. Stief  
 S. S. Stief

Approved:

ELC:jc

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**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date December 10, 1962  
Originating Dept. Production Analysis  
Answering letter date

Copy to Mr. E. L. Clay Mr. W. D. McCluen  
Mr. J. A. Corn Mr. R. L. Newton  
Mr. T. Hope Central Files  
Mr. K. M. Jones

Subject K-1420 Material Release  
Report No. 367  
KP-2220, Part 23

Date of Release:	October, 1962
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	E
Amount of Material Involved:	0.55 Pounds
Equipment:	Vent Stack
Source of Information:	Process Services Laboratory
Details:	Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Services Laboratory during October, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 607.74 hours of operation processing an estimated 1.5% material.

This calculated total monthly loss of 168 grams uranium and 3 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

OSMear 9/29/94  
Date

ADD or ASD signature (first reviewer)

McCombs 9/30/94  
Date

ADD signature (final reviewer)

Approved:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date December 10, 1962  
Originating Dept. Production Analysis  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Central Files

Subject K-1420 Material Release  
Report No. 368  
KP-2220, Part 24

Date of Release: November, 1962  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: E  
Amount of Material Involved: 17.64 Pounds  
Equipment: Vent Stack  
Source of Information: Process Services Laboratory  
Details: Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by Process Services Laboratory during November, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 479.10 hours of operation processing an estimated 1.9% material.

This calculated total monthly loss of 5,411 grams uranium and 103 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. D. McLaughlin 9/29/94  
Date

McLaughlin 9/30/94  
Date

E. L. Clay  
E. L. Clay

Approved:

S. S. Stief  
S. S. Stief

ELC:jc

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P. OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date January 15, 1963

Originating Dept.

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Central Files ✓

Subject K-1420 Material Release  
Report No. 369

KP-2220, Part 25

Date of Release:	December, 1962
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	E
Amount of Material Involved:	19.02 Pounds
Equipment:	Vent stack
Source of Information:	Process Services Laboratory
Details:	Known loss of calculated quantity.

The K-1420 vent stack was sampled periodically by the Process Services Laboratory during December, 1962, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 441.22 hours of operation processing 3.0% material.

This calculated total monthly loss of 5834 grams uranium and 175 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. D. McLaughlin 9/29/94  
ADD or ADD signature (first reviewer) Date

[Signature] 9/30/94  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved:

S. S. Stief  
S. S. Stief

ELC:jc

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**UNION  
CARBIDE**

**INTERNAL CORRESPONDENCE**

**UNION CARBIDE NUCLEAR COMPANY**

POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date February 15, 1963  
Originating Dept. Production Analysis

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. K. M. Jones  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Central Files ✓

Subject K-1420 Material Release  
Report No. 370

KP-2220, Part 26

Date of Release:	January, 1963
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	F
Amount of Material Involved:	0.037 pounds
Equipment:	Vent Stack
Source of Information:	Process Services Laboratory
Details:	Known loss of calculated quantity

The K-1420 vent stack was continuously monitored by the conversion facility space recorder during January, 1963, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 5 pounds per hour, a venting loss was calculated, based on 371.26 hours of operation processing 5.760% material.

This calculated total monthly loss of 11 grams uranium and 1 gram uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. M. Payne 9/29/64  
Date

ADD or ABD signature (first reviewer)

R. S. Conlton 9/30/64  
Date

ADD signature (final reviewer)

Approved:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date April 17, 1963  
Originating Dept. Production Analysis  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Central Files ✓

Subject K-1420 Material Release  
Report No. 372  
KP-2220, Part 28

Date of Release:	March, 1963
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	F
Amount of Material Involved:	0.118 pounds
Equipment:	Vent Stack
Source of Information:	Process Services Laboratory
Details:	Known loss of calculated quantity

The K-1420 vent stack was continuously monitored by the conversion facility space recorder during March, 1963, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 5 pounds per hour, a venting loss was calculated, based on 591.04 hours of operation processing materials whose average assay is 19.441% uranium-235.

This calculated total monthly loss of 36 grams uranium and 7 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSM/BAH 9/29/94  
Date

over/Condit 9/30/94  
Date

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

Approved:

SSS:ELC:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date April 30, 1963  
Originating Dept. Production Analysis

Answering letter date

Copy to Mr. J. C. Barton  
Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. J. Wertz  
Central Files ✓

Subject K-1004-A Material Release  
Report No. 373  
  
KP-2220, Part 29

Date of Release:	March 25, 1963
Location of Release:	K-1004-A, Room 19
Material:	UF <sub>6</sub>
Balance Area Account No.:	810
Class:	F
Amount of Material Involved:	400 grams
Equipment:	Sample transfer
Source of Information:	R. J. Wertz
Details:	Known loss of estimated quantity

During the routine operation of transferring liquid uranium hexafluoride from a sample cylinder to a 5" I.D. (always-safe) cylinder, a tube in the Bourdon gauge ruptured. This ruptured tube allowed uranium hexafluoride to be vented to the atmosphere via a hood exhaust system.

A total of 270 grams uranium and 20 grams uranium-235 will be shown as a measured loss and credited to the 810 account.

Classification changed to UNCLASSIFIED  
(level and category)  
 J. J. McLaughlin 9/29/84  
SSS or ASB Signature (last reviewed) Date  
 J. J. McLaughlin 7/30/94  
SSS or ASB Signature (last reviewed) Date

E. L. Clay  
E. L. Clay

Approved By: S. S. Stief  
S. S. Stief

SSS:jc

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker Date May 31, 1963  
 Company  
 Location K-303-7 Originating Dept. Production Analysis  
 Answering letter date  
 Copy to Mr. E. L. Clay Subject Bear Creek Portal Material  
 Mr. J. A. Corn Release, Report No. 374  
 Mr. H. J. Culbert  
 Mr. T. Hope  
 Mr. W. D. McCluen  
 Central Files ✓ KP-2220, Part 30

Date of Release: May 20, 1963  
 Location of Release: Y-12 Bear Creek Portal  
 Material: UNH Solution  
 Balance Area Account No.: 960  
 Class or Assay: G  
 Amount of Material Involved: 9,740 Grams  
 Equipment: 14 liter AS Shipping Container  
 Source of Information: H. J. Culbert  
 Details: Known loss of calculated quantity

On May 20, 1963, at approximately 1430 o'clock, a material release occurred just inside the Y-12 Bear Creek portal. During the routine operation of transporting filled containers of UNH solution from the Y-12 plant to ORGDP, the tailgate of the transporting truck dropped, allowing a buggy with a full container of UNH solution to fall. The buggy retaining spring clip held the container (a welded 14-liter always-safe polyethylene bottle) in place. However, the fall caused the neck weld joint to burst allowing the solution to spill onto the pavement.

A quantity of 9,740 grams of solution containing 732 grams of uranium and 343 grams of uranium-235 flowed onto the pavement. Decontamination, by Y-12 personnel, recovered 11,735 grams of solution containing 533 grams uranium and 250 grams uranium-235. The net loss of 199 grams of uranium and 93 grams uranium-235 will be shown as a measured loss and credited to the 960 account.

Classification changed to: UNCLASSIFIED  
 (Level and category)

J. S. McBay 9/29/94  
 ADC or ADD signature (first reviewer) Date

R. S. Complete 9/30/94  
 ADD signature (final reviewer) Date

E. L. Clay  
 E. L. Clay

Approved By: S. S. Stief  
 S. S. Stief

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INTERNAL CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY • POST OFFICE BOX P, OAK RIDGE, TENNESSEE

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date July 17, 1963  
Originating Dept. Production Analysis  
Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Central Files ✓

Subject K-1420 Material Release  
Report No. 375  
KP-2220, Part 31

Date of Release:	April, 1963
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	E
Amount of Material Involved:	0.09 pounds
Equipment:	Vent stack
Source of Information:	Process Services Laboratory
Details:	Known loss of calculated quantity

The K-1420 vent stack was sampled periodically by the Process Services Laboratory during April, 1963, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 5 pounds per hour, a venting loss was calculated, based on 447.38 hours of operation processing 3.3% material.

This calculated total monthly loss of 27 grams uranium and 1 gram uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSMcBry 9/29/64  
ADC or ADD signature (first reviewer) Date

W. D. McCluen 9/30/64  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved:

S. S. Stief  
S. S. Stief

SSS:ELC:jc

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INTERNAL CORRESPONDENCE

NUCLEAR DIVISION

POST OFFICE BOX P, OAK RIDGE, TENNESSEE 37831

To Name: Mr. R. A. Walker  
Company  
Location K-303-7

Date February 11, 1964  
Originating Dept. Production Analysis

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Central Files ✓

Subject K-1420 Material Release  
Report No. 376

KP-2220, Part 32

Date of Release: January 22, 1964  
Location of Release: K-1420  
Material: UF<sub>6</sub>  
Balance Area Account No.: 410  
Class or Assay: E  
Amount of Material Involved: 2 pounds of UF<sub>6</sub>  
Equipment: Drain Line Pigtail  
Source of Information: D. R. Carson  
Details: Known loss of estimated quantity

During the routine draining operation of a 10-inch cold trap in the K-1420 fluorination facility, a drain line pigtail became plugged. In the process of removing the pigtail and restoring the system to normal operation, UF<sub>6</sub> vapor was released to the atmosphere.

A total of 613 grams uranium and 17 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSM/Bruff 9/29/94  
ADC or ADD signature (first reviewer) Date

McCluen 9/30/94  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved By:

S. S. Stief  
S. S. Stief

ELC: jc

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INTERNAL CORRESPONDENCE

NUCLEAR DIVISION

POST OFFICE BOX P, OAK RIDGE, TENNESSEE 37831

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date March 26, 1964  
Originating Dept. Production Analysis

Answering letter date

Copy to Mr. E. L. Clay  
Mr. J. A. Corn  
Mr. T. Hope  
Mr. T. E. Koprowski  
Mr. W. D. McCluen  
Central Files ✓

Subject K-1131 Material Release  
Report No. 377

K-P-2220, Part 33

Date Of Release:	March 2, 1964
Location of Release:	K-1131 Tails Withdrawal Room
Material:	UF <sub>6</sub>
Balance Area Account No.:	120
Class or Assay:	A
Amount of Material Involved:	10 pounds
Equipment:	UF <sub>6</sub> Drain Line
Source of Information:	T. E. Koprowski
Details:	Known loss of estimated quantity

During the routine operation of draining liquid UF<sub>6</sub> from a Modine cold trap into a partially-filled 14-ton shipping container, a fault in the electrical heating system occurred. The excess heat from this fault caused a gasket to soften, permitting gaseous UF<sub>6</sub> to be released to the atmosphere.

A total of 3,066 grams uranium and 11 grams uranium-235 will be shown as a measured loss and credited to the 120 account.

Classification changed to: UNCLASSIFIED  
(level and category)

JSM 9/29/94

ADC or ADD signature (first reviewer) Date

W. D. McCluen 9/30/94

ADD signature (final reviewer) Date

Approved By:

E. L. Clay  
E. L. Clay

S. S. Stief  
S. S. Stief

ELC: jc

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*Legacy's list*

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INTERNAL CORRESPONDENCE

NUCLEAR DIVISION

POST OFFICE BOX P, OAK RIDGE, TENNESSEE 37831

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date April 22, 1964  
Originating Dept. Production Analysis

Answering letter date

Copy to Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Prod. Div. Central Files ✓

Subject K-1420 Material Release  
Report No. 378

KP-2220, Part 34

Date of Release:	March 23, 1964
Location of Release:	K-1420, "E" Area
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	G
Amount of Material Involved:	45 Grams
Equipment:	5-Inch Cold Trap
Source of Information:	R. J. Clouse
Details:	Known loss of estimated quantity.

During the routine operation of preparing a 5-inch cold trap for use, a plug was discovered in the inlet line to the trap. An attempt was made to unplug this line with air. When the air hose was disconnected from the inlet line, the internal "back-pressure" of the trap forced a small amount of UF<sub>6</sub> to be released to the atmosphere.

A total amount of 30 grams uranium and 17 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. D. Baugh 9/29/64  
ADC or ADD signature (first reviewer) Date

[Signature] 9/30/64  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved By: S. S. Stief  
S. S. Stief

SSS: jc

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INTERNAL CORRESPONDENCE

NUCLEAR DIVISION

POST OFFICE BOX P, OAK RIDGE, TENNESSEE 37831

To (Name) Mr. R. A. Walker  
Company  
Location K-303-7

Date April 22, 1964  
Originating Dept. Production Analysis

Answering letter date

Copy to Mr. J. A. Corn  
Mr. T. Hope  
Mr. W. D. McCluen  
Mr. R. L. Newton  
Prod. Div. Central Files ✓

Subject K-1420 Material Release  
Report No. 379  
  
KP-2220, Part 35

Date of Release:	January - March, 1964
Location of Release:	K-1420
Material:	UF <sub>6</sub>
Balance Area Account No.:	410
Class or Assay:	"G"
Amount of Material Involved:	0.49 lbs.
Equipment:	Conversion Vent Stack
Source of Information:	D. R. Carson
Details:	Known loss of a calculated quantity

The K-1420 vent stack was sampled continuously by a process flow sampler during January, February, and March, 1964, in order to determine the extent of material which was vented to the atmosphere. Using an average of these sample results and a flow rate of 15 pounds per hour, a venting loss was calculated, based on 830.21 hours of operation processing 33.0% material.

This calculated total quarterly loss of 153 grams uranium and 50 grams uranium-235 will be shown as a measured loss and credited to the 410 account.

Classification changed to: UNCLASSIFIED  
(level and category)

J. M. Bang 9/20/94  
ADC or ADD signature (first reviewer) Date

R. C. Conlton 9/30/94  
ADD signature (final reviewer) Date

E. L. Clay  
E. L. Clay

Approved By:

S. S. Stief  
S. S. Stief

SSS:jc

**RESTRICTED DATA**

This document contains restricted data as defined in the Atomic Energy Act of 1954. Its transmittal or the disclosure of its contents in any manner to an unauthorized person is prohibited.

GROUP 1: Excluded from Automatic Downgrading and Declassification.

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