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Date of request 3/29/96 Expected receipt of document 4/30/

Document number KZ-3689 Date of document 6/27/47

Title and author (if document is unnumbered)

(This section to be completed by Document Center)

Date request received 4/8/96

Date submitted to ADC 4/15/96

Date submitted to HSA Coordinator 4/8/96

(This section to be completed by HSA Coordinator)

Date submitted to CICO 4/15/96

Date received from CICO 4/19/96

Date submitted to ChemRisk/Shonka and DOE 4/23/96

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2735

THIS DOCUMENT CONSISTS OF 6 PAGES
NO. 4 OF 5 COPIES. SERIES A

UNCLASSIFIED

INTER-COMPANY CORRESPONDENCE

5883

(INSERT NAME) COMPANY CARBIDE AND CARBON CHEMICALS CORP. LOCATION Post Office Box P OAK RIDGE, TENN.

TO Plant Records Department
LOCATION K-1034

DATE June 27, 1947 KZ-

ANSWERING LETTER DATE

ATTENTION Mr. W. C. Hartman
COPY TO Mr. H. B. Brown
Mr. R. Paluzelle
File

SUBJECT Report on T-bearing Materials Handled in K-1300 Area.

REPORT NO. KZ 3689

7710

Attached is a complete report of all the T-bearing materials handled and produced in the Aqueous Recovery and Conversion (fluorination) Units of the K-1300 Area by the Cascade Services Department through December 31, 1946.

The report tabulated for the Aqueous Recovery Unit includes all T-bearing materials handled and produced by Cascade Services plus the T_3O_8 produced by Process Design and Development in the start-up period. The totals arrived at were obtained from Material (PK) Transfers, which were checked for completeness with the Coded Chemicals Section of the Uranium Control and Inspection Department, and additionally checked against operating data sheets. A previous report, compiled by Mr. James H. Steele, PKM 207, showed 501,145 grams of T_3O_8 produced in the Recovery Unit by Cascade Services up to January 1, 1947; however, the exhaustive check made shows Mr. Steele's report to be in error by 205,908 grams of T_3O_8, which was possibly due to duplicated additions from transfers of the T_3O_8 subsequent to its shipment from the Recovery Unit.

The totals obtained for the Conversion Unit similarly were obtained from Material Transfers, checked against Coded Chemicals for completeness. The totals obtained do not include the special run of Y-12 material in the fall of 1945, or the cube material from Dr. Beck's criticality experiments in the fall and early winter of 1946; however, special reports have been written covering these special runs and placed in Plant Records.

The Material Transfers used in obtaining the totals for this report are being transmitted to Plant Records with this report on Classified Document Receipt No. 5869; these transfers can be examined at Plant Records should future need for these transfers arise.

KZ 3689 4 A

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Classification changed to: [illegible]

Enclosures [signature] 4/15/96
ADC or ADC signature (first reviewer) Date

[signature] 4/16/96
ADD signature (final reviewer) Date

PROCESS DIVISION
Cascade Services Department

B-9855

Carbide and Carbon Chemicals Corporation, Operating Contractor for the U.S. Atomic Energy Commission.

H. M. Preuss
K-1300 Area Day Supervisor

This document contains information affecting the National Defense of the United States within the meaning of the Espionage Act, U. S. C. 50:31 and 32. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

This document has been approved for release to the public by: [signature] 4/19/96
for [signature]
Technical Information Officer Date
Oak Ridge K-25 Site

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HMP:bch

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WCX-80

THIS FORM FOR INTER-COMPANY CORRESPONDENCE ONLY

K-1303 RECOVERY UNIT

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A. Processed by Cascade Services:

Contaminated Solutions (gallons)

5-28-46 thru' 12-31-46

Cascade Services Material Transfer Nos. SP-

Class A	Class B	Class C	Class D	Class E	Class L	Class M	TOTALS
5613	3915	3665	850	----	----	8,541.66	22,584.66
5,16,25, 24,23,28, 27,26,39, 38	8,22,21, 20,19,18, 17,30,29	7,6,2,14, 14,13,12, 11,9,15	4,3,10	----	----	31,35,34, 33,32,37, 36	

B. Shipments from Cascade Services:

Filtrate and Washwater (gallons)

6-4-46 thru' 12-31-46

Cascade Services Material Transfer Nos. FWS-

Class A	Class B	Class C	Class D	Class E	Class L	Class M	TOTALS
9623	1960	2193.7	1153	----	----	6665	21,594.7
1,15,17, 18,19,21, 23,25,26, 27,28,30, 31,32,33, 34,36,50, 51,52,53	4,11,13, 14,16,29, 35,39,41	2,7,9,10, 12,20,40	3,5,6,8, 22,21-B	----	----	37,41,42, 43,44,45, 46,47,48, 49,14-A, 21-A	

Initial Filter Cake (pounds)

5-29-46 thru' 12-31-46

Cascade Services Material Transfer Nos. FL-

Class A	Class B	Class C	Class D	Class E	Class L	Class M	TOTALS
1,562.38	276.81	507.60	48.90	----	----	204.80	2,600.49
1,2,10,11, 12,13,14, 15,16,17, 18,29,30	3,5,6,8, 21,22,23	9	4,7			19,20,23, 24,25,26, 27,23	

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B. Shipments from Cascade Services: (Cont'd.)

	Class A	B	C	D	E	L	M	TOTALS
Ammonium Diuranate (grams) 9-23-46 (only)	411	—	—	—	—	—	—	411
Cascade Services Material Transfer No. DS-	1							

	Class A	B	C	D	E	L	M	TOTALS
T_3O_8 to Coded Chemicals (grams) 6-7-46 through 12-31-46	210,192	39,594.5	18,847	6,074.4	—	—	15,700.9	290,408.8
Cascade Services Material Transfer Nos. OS-	14,15,16, 17,18,19, 20,29,30, 31	6,8,9,10, 11,12,13, 22,23	3,4,5,7	1,17-A,2, 17-B			21,24,25, 26,27,28	

	Class A	B	C	D	E	L	M	TOTALS
T_3O_8 to Lab. 6-6-46 thru' 12-31-46	1391	1506	1102.5	92	—	—	737	4828.5
Cascade Services Material Transfer Nos. OL-	23,24,25, 27,28,29, 30,31,32, 43,44,45,	15,16,17, 18,19,20, 21,22,34, 35,FL-8	4,5,6,7, 8,9,10,11 12,13,14	1,2,3			26,33,36, 37,38,39, 40,41,42	

C. Shipments from Process Design and Development Department:

	Class A	B	C	D	E	L	M	TOTALS
T_3O_8 to Coded Chemicals Start-up Period thru' 5-31-46	31,548	22,368	2,132	3,316	—	—	—	59,364.0

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K-1301 CONVERSION UNIT

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A. Shipments from Cascade Services:

Oxide Shipped (grams)

7-1-46 thru' 12-31-46

Cascade Services Material Transfer Nos. AOR, BOR, COR, DOR, EOR, MOR, ACL-A-

Class A	B	C	D	E	M	TOTALS
178.	—	—	447.	317.	1029.5	1,917.5
17, ACL-A-6			4	1,2	2,2-A	

TF_6 Shipped (grams)

7-1-46 thru' 12-31-46

Cascade Services Material Transfer Nos. APS, BPS, CPS, DPS, EPS-

Class A	B	C	D	E	M	TOTALS
288,790.	191,115.5	13,630.	10,352.	297.	—	504,185.5
1,2,3,5,7, 8,9,10,11	1,2,3,6,10, 12,16,20, 21,18-A	1,2	1,2,3,7	1		

Ash to Contaminated Waste (grams)

6-7-46 thru' 12-31-46

Cascade Services Material Transfer Nos. ACW-A, ACW-B, ACW-C, ACW-D, ACW-E, ACW-M

Class A	B	C	D	E	M	TOTALS
29,327.	196,517.4	10,610	5,765	81	—	242,300.40
1,2, ACW-M-2	ACW-M-1, 2, ACW-B-1,4,6	ACW-M-1	ACW-M-2	1		

Ash to Conditioning Lab. (grams)

8-1-46 thru' 12-31-46

Cascade Services Material Transfer Nos. ACL-A, ACL-B, ACL-C, ACL-D, ACL-E, ACL-M

Class A	B	C	D	E	M	TOTALS
433.	588.	181.	205.	25.	42.	1,474.0
1,2,3,4, 5,6	1,2,3,4, ACL-M-1	ACL-B-1	1,2,3,4, ACL-M-1	1	1	

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A. Shipments from Cascade Services: (Cont'd.)

Caustic Solution to Lab. (liters)

10-10-46 thru' 12-31-46

Cascade Services Material Transfer Nos. CSCL-

Class A	B	C	D	E	M	TOTALS
----	.6308 1	----	.9462 1	----	----	1.5770

Caustic Uranate Shipped (grams)

8-29-46 (only)

Cascade Services Material Transfer Nos. CUS-

Class A	B	C	D	E	M	TOTALS
----	959 1	----	----	----	----	959

B. Material Received by Cascade Services:

Oxide Received (grams)

6-3-46 thru' 12-31-46

Cascade Services Material Transfer Nos. AOR, BOR, COR, DOR, EOR, MOR-

Class A	B	C	D	E	M	TOTALS
183,137.9	64,170.5	20,634.	14,600.4	307.0	16,823.6	299,672.9
2,4,5,6,7,8,9,10,18 19,20,21,22	1,2,3,5,6,7,8,9,10,11	1,2	1,2,3,5,6	3	1,3,4	

TF_6 Received (grams)

7-8-46 thru' 12-31-46

Cascade Services Material Transfer Nos. APS, BPS, CPS, DPS, EPS

Class A	B	C	D	E	M	TOTALS
5,007.0	24,585.9	6.0	2,514.0	-10.0	----	32,102.9
4,12	7,8,9,11,13,18,18-A 22,23	3	4,5,6,8	2		

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B. **Material Received by Cascade Services:** (Cont'd.)

Ash from Contaminated Waste (grams)

6-7-46 thru' 12-31-46

Cascade Services Material Transfer Nos. AR-

Class A	Class B	Class C	Class D	Class E	Class M	TOTALS
5,896.80 1	47,673.36 2,3	----	----	----	----	53,570.16

Caustic Uranate Received (grams)

8-16-46 thru' 11-12-46

Cascade Services Material Transfer Nos. CUR-

Class A	Class B	Class C	Class D	Class E	Class M	TOTALS
----	58,783.98 2,3,4,5	----	----	----	----	58,783.98

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