CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

UCC

POST OFFICE BOX P
OAK RIDGE, TENN.

714207

January 12, 1951

United States Atomic Energy Commission
Post Office Box E
Oak Ridge, Tennessee

Attention: Director, Research and Medicine

Subject: Free Isotope Report

Gentlemen:

Transmitted herewith in duplicate is a report of isotopes sold without charge during the month of December 1950.

Very truly yours,

CARBIDE AND CARBON CHEMICALS DIVISION

Oral Pinchot
for General Superintendent

C. E. Center
HIM/shp

cc: 1. ✓ Director, Research and Medicine
2. Director, Research and Medicine
3. Louis Martinelli
4. C. E. Larson
5. E. A. Bagley
6. J. H. Gillette
7. M. E. Ramsey
8. General Superintendent
9. Accounting Department File K25RC

REPOSITORY Atlanta DARA
COLLECTION RG #326 (68-A1096 OR Research Div.)
BOX No. 50
FOLDER Isotopes Program
Jan. - June 8 Rpts. + Date

ISOTOPES PROGRAM 8

2003376

AUG 1951 ✓
A-331

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

2003377

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Abbott Laboratories	12-44	P 32	100 mc	12-4-50	6600	110.00	
	12-45	Au 198	4 units	12-4-50	6859	48.00	
	12-47	I 131	300 mc	12-5-50	7721	225.00	
	12-227	P 32	75 mc	12-11-50	6600	82.50	
	12-228	Au 198	3 units	12-11-50	6859	36.00	
	12-229	I 131	500 mc	12-12-50	7721	375.00	
	12-406	Au 198	2 units	12-18-50	6859	24.00	
	12-407	P 32	50 mc	12-18-50	6600	55.00	
	12-408	I 131	300 mc	12-19-50	7721	225.00	
	12-558	P 32	75 mc.	12-25-50	6600	82.50	
	12-559	I 131	300 mc	12 26-50	7721	225.00	
	12-560	Au 198	1 unit	12-27-50	6859	12.00	
	12-560	Au 198	1 unit	12-27-50	7722	12.00	23,222.69
Amherst College							72.00
Arkansas Medical School							13.20
Arkansas Cancer Commission							573.50
Army Medical Center	12-1	I 131	30 mc.	12-1-50	7376	22.50	
	12-411	P 32	30 mc.	12-18-50	7225	33.00	
	12-412	I 131	30 mc	12-22-50	7376	22.50	1,460.00
Baroness Erlanger Hospital	12-232	I 131	100 mc	12-18-50	6212	75.00	375.00
Mary Imogene Bassett Hospital	12-415	I 131	10 mc.	12-19-50	8042	7.50	
	12-563	I 131	10 mc.	12-26-50	8042	7.50	15.00
Baylor Hospital							3,278.00
Baylor University	12-235	P 32	10 mc.	12-14-50	7773	11.00	
	12-417	P 32	20 mc.	12-18-50	7773	22.00	
	12-418	I 131	50 mc.	12-19-50	5416	37.50	361.25
Biochemical Research Foundation							313.20
Bowman Gray School of Medicine							116.20
Peter Bent Brigham Hospital							269.50
Bronx Hospital	12-55	I 131	50 mc.	12-5-50	6378	37.50	
	12-239	I 131	50 mc.	12-12-50	6378	37.50	
	12-422	I 131	50 mc.	12-19-50	6378	37.50	
	12-565	I 131	50 mc.	12-26-50	6378	37.50	225.00
Brooklyn Cancer Institute							4,923.45
Brooklyn College	12-56	P 32	5 mc.	12-4-50	6183	5.50	16.50
Cedars of Lebanon Hospital	12-61	P 32	100 mc.	12-4-50	6770	110.00	
	12-62	I 131	300 mc.	12-5-50	6218	225.00	
	12-244	I 131	300 mc.	12-18-50	6218	225.00	

2003378

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Cedars of Lebanon Hospital	12-423	P 32	100 mc.	12-18-50	6770	110.00	
	12-424	I 131	100 mc.	12-19-50	6218	75.00	
	12-424	I 131	200 mc.	12-19-50	7949	150.00	
	12-567	I 131	300 mc.	12-26-50	7949	225.00	21,502.50
Central Research Laboratories, Inc.							165.00
Chicago Medical School							7.00
City of New York							855.00
Cleveland Clinic	12-245	I 131	350 mc.	12-12-50	6205	262.50	
	12-245	P 32	100 mc.	12-14-50	6779	110.00	
	12-425	I 131	350 mc.	12-19-50	6205	262.50	15,267.25
Columbia University							6,770.00
Columbia University-Gov't. Contract Div.	12-63	I 131	150 mc.	12-5-50	5961	112.50	
	12-247	I 131	175 mc.	12-12-50	5961	131.25	
	12-427	I 131	175 mc.	12-19-50	5961	131.25	
	12-570	I 131	175 mc.	12-26-50	5961	131.25	10,786.50
Cook County Hospital	12-250	P 32	30 mc.	12-11-50	5823	33.00	
	12-251	I 131	150 mc.	12-12-50	5822	112.50	
	12-571	I 131	150 mc.	12-26-50	5822	112.50	5,099.50
Cornell University							83.92
Detroit Inst. of Cancer Research	12-66	P 32	10 mc.	12-8-50	7425	11.00	
	12-431	P 32	10 mc.	12-21-50	7425	11.00	178.20
Duke University Hospital							137.00
Emory University	12-67	I 131	400 mc.	12-5-50	5868	300.00	2,314.20
Henry Ford Hospital	12-435	P 32	20 mc.	12-18-50	7860	22.00	164.00
Central Purchasing Branch, Ft. Knox	12-433	P 32	10 mc.	12-18-50	6700	11.00	
	12-434	I 131	10 mc.	12-19-50	6699	7.50	397.50
Genesee Hospital	12-256	I 131	200 mc.	12-18-50	7892	150.00	1,583.25
Georgetown University	12-69	P 32	10 mc.	12-4-50	4758	11.00	
	12-70	Ca 45	2 mc.	12-8-50	7101	90.00	295.20
Good Hope Hospital Association	12-258	I 131	100 mc.	12-12-50	6874	75.00	75.00
Harper Hospital	12-73	P 32	25 mc	12-4-50	7686	27.50	
	12-438	I 131	100 mc.	12-19-50	7685	75.00	7,027.50
Hartford Hospital	12-74	I 131	150 mc.	12-5-50	7779	112.50	337.50
Harvard University	12-262	I 131	5 mc.	12-12-50	7967	3.75	
	12-263	I 131	30 mc.	12-12-50	4125	22.50	4,695.75
Highland Hospital							307.00
Johns Hopkins Hospital	12-440	P 32	15 mc.	12-18-50	3848	16.50	2,089.10
Hospital Supply Co. of California	12-78	I 131	100 mc.	12-5-50	6679	75.00	
	12-577	I 131	100 mc.	12-26-50	6679	75.00	444.75

2003379

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Howard University	12-268	I 131	60 mc.	12-18-50	7866	45.00	2,187.90
Indiana University Medical Center	12-80	I 131	100 mc.	12-5-50	7154	75.00	
	12-269	P 32	50 mc.	12-11-50	7155	55.00	
	12-442	I 131	100 mc.	12-19-50	7154	75.00	
	12-578	P 32	50 mc.	12-25-50	7155	55.00	2,016.00
Institute for Cancer Research	12-271	C 14 (2-C 14)	0.5 mc.	12-15-50	8032	162.50	2,681.25
Iowa State College							20.00
Jefferson Medical College and Hospital	12-81	P 32	20 mc.	12-4-50	6551	22.00	
	12-82	I 131	15 mc.	12-5-50	7399	11.25	
	12-272	I 131	30 mc.	12-12-50	5360	22.50	
	12-273	I 131	100 mc.	12-12-50	7899	75.00	
	12-444	P 32	10 mc.	12-18-50	6551	11.00	
	12-580	I 131	30 mc.	12-26-50	5360	22.50	4,340.68
Jewish Hospital, Cincinnati, Ohio	12-83	I 131	100 mc.	12-5-50	5998	75.00	
	12-581	I 131	100 mc.	12-29-50	5998	75.00	
	12-582	P 32	20 mc.	12-29-50	5565	22.00	1,116.00
Jewish Hospital, New York, N. Y.	12-583	I 131	30 mc.	12-26-50	6900	22.50	239.00
Jewish Hospital, Philadelphia, Pa.	12-84	I 131	100 mc.	12-5-50	7209	75.00	
	12-445	I 131	100 mc.	12-19-50	7209	75.00	1,152.50
Knoxville, Dept. of Purchase							34.00
Lankenau Hospital							36.00
Los Alamos Hospital							100.00
Los Angeles Tumor Institute	12-86	I 131	100 mc.	12-8-50	7059	75.00	
	12-87	I 131	100 mc.	12-8-50	7059	75.00	767.95
Louisiana State University	12-274	I 131	10 mc.	12-12-50	7702	7.50	1,713.55
Lovelace Clinic							99.50
Maimonides Hospital of Brooklyn	12-275	I 131	25 mc.	12-12-50	4621	18.75	612.50
Marquette University	12-88	I 131	122.5 mc.	12-5-50	6540	91.88	
	12-276	P 32	20 mc.	12-11-50	5424	22.00	
	12-447	I 131	122.5 mc.	12-19-50	6540	91.88	
	12-448	P 32	40 mc.	12-21-50	5424	44.00	
	12-449	Ca 45	2 mc.	12-21-50	7668	10.00	4,013.98
Mason Clinic	12-89	P 32	100 mc.	12-4-50	6715	110.00	
	12-90	I 131	200 mc.	12-5-50	6714	150.00	
	12-584	P 32	100 mc.	12-25-50	6715	110.00	
	12-585	I 131	200 mc.	12-26-50	6714	150.00	7,676.10

2003380

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Massachusetts General Hospital	12-91	I 131	75 mc.	12-5-50	5818	56.25	
	12-92	I 131	50 mc.	12-5-50	7700	37.50	
	12-277	P 32	75 mc.	12-11-50	6281	82.50	
	12-278	K 42	1 unit	12-11-50	6998	12.00	
	12-450	I 131	75 mc.	12-19-50	5818	56.25	
	12-451	I 131	50 mc.	12-19-50	7700	37.50	10,456.25
Massachusetts Memorial Hospital	12-279	P 32	100 mc.	12-11-50	6573	110.00	
	12-452	I 131	200 mc.	12-19-50	6574	150.00	4,212.00
Maxfield Clinic	12-39	I 131	150 mc.	9-12-50	6988	112.50	
	12-40	I 131	150 mc.	9-26-50	6988	112.50	
	12-41	I 131	150 mc.	10-10-50	6988	112.50	
	12-42	I 131	150 mc.	10-24-50	6988	112.50	
	12-93	I 131	100 mc.	12-5-50	6988	75.00	
	12-454	I 131	100 mc.	12-19-50	6988	75.00	9,975.50
Mayo Clinic							1,507.00
Med. Col. of the State of S.C.	12-458	P 32	25 mc.	12-19-50	6727	27.50	1,025.50
Medical College of Virginia							27.05
Meharry Medical College							2,317.00
Memorial Hospital	12-96	P 32	50 mc.	12-4-50	6448	55.00	
	12-97	I 131	100 mc.	12-5-50	7363	75.00	
	12-281	I 131	100 mc.	12-12-50	7363	75.00	
	12-459	P 32	50 mc.	12-18-50	6448	55.00	
	12-460	I 131	100 mc.	12-19-50	7363	75.00	
	12-590	I 131	100 mc.	12-26-50	7363	75.00	24,933.02
Michigan State College	12-283	P 32	40 mc.	12-11-50	8019	44.00	110.00
Montefiore Hospital	12-100	I 131	350 mc.	12-5-50	5888	262.50	
	12-101	Ca 45	2 mc.	12-7-50	6701	4.00	
	12-221	La 140	1 unit	10-2-50	6096	12.00	
	12-222	La 140	1 unit	10-23-50	6096	12.00	
	12-223	La 140	1 unit	11-27-50	6096	12.00	
	12-286	La 140	1 unit	12-11-50	6096	12.00	
	12-287	I 131	350 mc.	12-12 50	5888	262.50	
	12-289	P 32	5 mc.	12-15-50	6371	5.50	
	12-463	I 131	350 mc.	12-19-50	5888	262.50	24,823.20
Mount Sinai Hospital	12-37	Y 91	50 mc.	10-26-50	5654	50.00	
	12-102	I 131	350 mc.	10-5-50	6308	262.50	
	12-290	I 131	150 mc.	12-12-50	6308	112.50	
	12-591	P 32	300 mc.	12-25-50	7381	330.00	30,927.85
National Institute of Health	12-103	P 32	5 mc.	12-4-50	7259	5.50	
	12-220	I 131	90 mc.	11-14-49 thru 6-27-50	4254 Rev.	77.50	
	12-224	Na 22	2 mc.	9-7-50	6727	200.00	776.62

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UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
National Naval Medical Center	12-5	P 32	15 mc.	12-1-50	6740	16.50	
	12-105	Ga 72	1 unit	12-4-50	5108	13.00	
	12-106	Ga 72	2 units	12-4-50	7504	26.00	
	12-107	I 131	50 mc.	12-5-50	6488	37.50	
	12-292	P 32	15 mc.	12-11-50	6740	16.50	
	12-293	Ga 72	2 units	12-11 50	7504	26.00	
	12-465	Ga 72	2 units	12-18-50	7504	26.00	
	12-466	I 131	50 mc.	12-19-50	6488	37.50	
	12-593	P 32	15 mc.	12-25-50	6740	16.50	
	12-594	Ga 72	2 units	12-27-50	7504	26.00	1,779.50
New Britain General Hospital	12-467	P 32	100 mc.	12-21-50	8120	110.00	686.50
New England Deaconess Hospital	12-296	P 32	1 mc.	12-11-50	6529	1.10	
	12-297	P 32	1 unit	12-13-50	6323	33.00	
	12-596	I 131	7 mc.	12-26-50	7161	5.25	1,462.90
New England Medical Center	12-110	I 131	40 mc.	12-5-50	7112	30.00	
	12-298	H 3	93.6 mc.	12-15-50	7276	18.72	
	12-468	I 131	40 mc.	12-19-50	7112	30.00	1,803.22
New York Med. College							577.00
New York University							4,805.00
New York Bellevue Medical Center	12-111	C 14	20 mc.	12-18-50	8040	720.00	
	12-299	I 131	300 mc.	12-12-50	6937	225.00	
	12-300	Sr 90	25 mc.	12-15-50	7323	25.00	6,440.00
North Carolina Baptist Hospital	12-597	P 32	5 mc.	12-25-50	7915	5.50	95.90
Northwestern University	12-112	P 32	100 mc.	12-4-50	6019	110.00	
	12-598	P 32	100 mc.	12-25-50	6019	110.00	907.50
Oak Ridge Institute of Nuclear Studies							60.00
Ochsner Clinic	12-116	P 32	50 mc.	12-4-50	7372	55.00	
	12-470	P 32	50 mc.	12-18-50	7372	55.00	3,025.00
Ohio State University	12-117	P 32	75 mc.	12-4-50	6310	82.50	
	12-302	P 32	75 mc.	12-11-50	6310	82.50	
	12-303	S 35	35 mc.	12-14-50	8142	45.00	
	12-471	P 32	75 mc.	12-18-50	6310	82.50	
	12-600	P 32	75 mc.	12-25-50	6310	82.50	13,778.00
Ohio State University Res. Found.							43.00
Overly Biochemical Res. Foundation	12-118	P 32	1 mc.	12-4-50	6379	1.10	37.40
Carson C. Peck Memorial Hospital							992.00
Philadelphia General Hospital	12-119	I 131	100 mc.	12-11-50	6689	75.00	
	12-474	I 131	100 mc.	12-19-50	7435	75.00	3,474.00
Presbyterian Hospital	12-603	P 32	25 mc.	12-25-50	6182	27.50	1,578.50

2003381

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Providence College							36.00
Purdue University							720.00
Reed College	12-71	I 131	12 mc.	12-8-50	6449	9.00	20.25
Rees-Stealy Clinic							3,007.50
Santa Barbara Cottage Hospital							52.80
Scribbs Metabolic Clinic							135.00
Sinai Hospital							69.50
Southern Research Institute	12-309	I 131	10 mc.	12-14-50	8047	7.50	2,786.70
Southwestern Medical College	12-310	I 131	200 mc.	12-12-50	4672	150.00	3,515.40
Stanford University	12-604	I 131	20 mc.	12-28-50	6949	15.00	
	12-605	P 32	10 mc.	12-29-50	7562	11.00	3,187.25
State University of Iowa	12-122	I 131	30 mc.	12-5-50	6999	22.50	
	12-123	I 131	30 mc.	12-8-50	6999	22.50	
	12-311	P 32	10 mc.	12-11-50	7972	11.00	
	12-312	I 131	30 mc.	12-15-50	6999	22.50	
	12-478	I 131	30 mc.	12-22-50	6999	22.50	
	12-479	I 131	30	12-22-50	6999	22.50	
	12-606	I 131	30 mc.	12-29-50	6999	22.50	1,788.50
St. Joseph's Hospital							9.75
Temple University Hospital	12-124	I 131	100 mc.	12-5-50	6737	75.00	
	12-125	I 131	100 mc.	12-7-50	6737	75.00	
	12-315	P 32	50 mc.	12-11-50	7864	55.00	
	12-316	I 131	150 mc.	12-14-50	6737	150.00	
	12-483	I 131	100 mc.	12-19-50	6737	75.00	4,495.10
Texas Radiation & Tumor Inst.	12-318	I 131	150 mc.	12-12-50	6513	112.50	
	12-485	P 32	90 mc.	12-18-50	7162	99.00	
	12-608	I 131	150 mc.	12-26-50	6513	112.50	8,565.33
Tracerlab, Inc.	12-8	C 14	37.35 mc.	12-1-50	7893	1,344.60	
	12-320	I 131	500 mc.	12-12-50	8063	375.00	
	12-609	I 131	500 mc.	12-26-50	8065	375.00	34,400.85
Tufts College Medical-Dental School							912.00
Tulane University of La.	12-127	K 42	1 unit	12-4-50	4913	12.00	
	12-321	I 131	20 mc	12-15-50	7906	15.00	
	12-489	K 42	1 unit	12-18 50	4913	12.00	
	12-611	K 42	1 unit	12-27-50	8247	12.00	2,274.00
Tumor Inst. of the Swedish Hospital	12-322	I 131	10 mc.	12-12-50	5480	7.50	260.25
U. S. Bureau of Plant Industry, Beltsville							27.50
U. S. Public Health Service							480.00

2003382

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
University of Arkansas	12-324	P 32	20 mc.	12-11-50	8078	22.00	424.25
University of California, Berkeley	12-133	P 32	350 mc.	12-4-50	6035	385.00	
	12-134	I 131	300 mc.	12-5-50	6006	225.00	
	12-135	C 14	25 mc.	12-8-50	7947	900.00	43,733.07
University of California, Los Angeles							73.10
University of California, San Francisco							385.00
University of Chicago	12-136	P 32	90 mc.	12-4-50	6929	99.00	
	12-137	I 131	750 mc.	12-5-50	6032	562.50	
	12-225	Fe 59	10 mc.	11-3-50	6423	350.00	
	12-226	Fe 59	10 mc.	12-1-50	6423	350.00	
	12-328	I 131	750 mc.	12-12-50	6032	562.50	
	12-496	P 32	90 mc.	12-18-50	6929	99.00	
	12-497	I 131	750 mc.	12-19-50	6032	562.50	
	12-613	I 131	750 mc.	12-26-50	6032	562.50	76,987.15
University of Cincinnati	12-138	P 32	30 mc.	12-4-50	7091	33.00	
	12-330	I 131	150 mc.	12-12-50	7173	112.50	
	12-614	P 32	30 mc.	12-25-50	7091	33.00	
	12-615	I 131	150 mc.	12-26-50	7173	112.50	2,331.35
University of Colorado, Boulder							2,268.00
University of Colorado Med. Center	12-139	P 32	200 mc.	12-4-50	7835	220.00	
	12-499	I 131	167 mc.	12-19-50	8011	125.25	3,598.25
University of Florida							487.20
University of Georgia	12-502	I 131	50 mc.	12-19-50	7334	37.50	37.50
University of Illinois, Chicago	12-617	Y 91	10 mc.	12-28-50	7445	10.00	15.00
University of Illinois, Urbana							2,533.00
University of Iowa	12-7	I 131	30 mc.	12-1-50	6999	22.50	62.50
University of Kansas	12-17	I 131	60 mc.	12-1-50	7813	45.00	
	12-332	I 131	30 mc.	12-12-50	7813	22.50	
	12-619	I 131	30 mc.	12-26-50	7813	22.50	
	12-620	I 131	100 mc.	12-28-50	7813	75.00	659.30
University of Louisville							6.60
University of Maryland							99.00
University of Michigan	12-142	I 131	200 mc.	12-11-50	6528	150.00	
	12-333	P 32	30 mc.	12-11-50	6516	33.00	
	12-506	I 131	200 mc.	12-19-50	6528	150.00	
	12-621	P 32	30 mc.	12-25-50	6516	33.00	9,150.25
University of Minnesota	12-18	S 35	10 mc.	12-1-50	6768	20.00	
	12-144	K 42	1 unit	12-4-50	4584	12.00	
	12-145	I 131	200 mc.	12-5-50	5800	150.00	

2003383

2003384

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
University of Minnesota	12-334	P 32	5 mc.	12-11-50	6328	5.50	
	12-335	P 32	25 mc.	12-11-50	5801	27.50	
	12-623	I 131	100 mc.	12-29-50	5800	75.00	9,565.10
University of Nebraska	12-336	P 32	50 mc.	12-11-50	6849	55.00	
	12-508	I 131	120 mc.	12-19-50	5891	90.00	5,102.40
University of Oklahoma School of Medicine	12-19	I 131	20 mc.	12-1-50	7275	15.00	
	12-337	P 32	20 mc.	12-11-50	7975	22.00	
	12-338	I 131	50 mc.	12-12-50	7275	37.50	347.50
University of Oregon Medical School	12-339	P 32	150 mc.	12-11-50	5908	165.00	
	12-624	P 32	150 mc.	12-25-50	5908	165.00	10,359.80
University of Pennsylvania	12-149	P 32	30 mc.	12-4-50	7030	33.00	493.00
Hospital of the Univ. of Pennsylvania	12-151	P 32	50 mc.	12-4-50	6852	55.00	
	12-341	I 131	260 mc.	12-12-50	6408	195.00	
	12-626	I 131	260 mc.	12-26-50	6408	195.00	13,562.75
University of Pittsburgh	12-152	I 131	100 mc.	12-5-50	5329	75.00	
	12-342	P 32	150 mc.	12-11-50	7922	165.00	
	12-511	I 131	100 mc.	12-19-50	5329	75.00	10,838.91
University of Rochester	12-153	P 32	50 mc.	12-4-50	6429	55.00	
	12-154	I 131	150 mc.	12-5-50	5938	112.50	
	12-344	I 131	125 mc.	12-12-50	5877 & 7905	93.75	7,515.75
University of Southern California	12-155	P 32	10 mc.	12-4-50	5702	11.00	
	12-345	I 131	250 mc.	12-12-50	7313	187.50	
	12-627	I 131	250 mc.	12-26-50	7313	187.50	5,449.00
University of Tennessee	12-156	I 131	40 mc.	12-5-50	7532	30.00	
	12-159	P 32	12 mc.	12-7-50	5502	13.20	
	12-346	I 131	40 mc.	12-12-50	7532	30.00	
	12-514	I 131	15 mc.	12-19-50	7532	11.25	
	12-630	I 131	40 mc.	12-28-50	7532	30.00	2,264.25
University of Texas, Austin							49.50
University of Texas, Houston	12-21	I 131	75 mc.	12-1-50	6057	56.25	
	12-351	I 131	100 mc.	12-14-50	6057	75.00	3,954.50
University of Utah							1,094.60
University of Virginia	12-353	P 32	25 mc.	12-11-50	6161	27.50	
	12-354	I 131	100 mc.	12-15-50	7389	75.00	970.00
University of Washington	12-22	C 14	20 mc.	12-1-50	7583	720.00	742.00
University of Wisconsin	12-166	I 131	200 mc.	12-7-50	6169	150.00	
	12-355	I 131	75 mc.	12-12-50	6169	56.25	
	12-519	P 32	50 mc.	12-18-50	7437	55.00	
	12-520	I 131	75 mc.	12-19-50	6169	56.25	[illegible]

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month DECEMBER

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Veterans Adm., Bronx 63, N. Y.	12-170	K 42	1 unit	12-4-50	7158	12.00	
	12-360	P 32	50 mc.	12-11-50	7156	55.00	
	12-361	K 42	1 unit	12-11-50	7158	12.00	
	12-362	I 131	50 mc.	12-12-50	7157	37.50	
	12-522	K 42	1 unit	12-18-50	7158	12.00	
	12-634	I 131	100 mc.	12-26-50	7157	75.00	9,115.60
Crile VA Hospital, Cleveland, Ohio	12-363	P 32	26 mc.	12-11-50	6554	28.60	980.10
Veterans Administration Hospital, Dallas	12-366	I 131	50 mc.	12-12-50	7251	37.50	
	12-525	P 32	50 mc.	12-18-50	7546	55.00	
	12-526	I 131	50 mc.	12-19-50	7251	37.50	2,000.00
VA Hospital, Fort Howard, Md.							149.00
VA Hospital, Fort Logan, Colorado							1.50
VA Hospital, Fort Snelling, Minn.	12-172	P 32	20 mc	12-4-50	1955	22.00	
	12-173	I 131	100 mc.	12-5-50	4602	75.00	
	12-370	I 131	100 mc.	12-14-50	4602	75.00	518.50
VA Hospital, Framingham, Mass.	12-174	I 131	100 mc.	12-5-50	6696	75.00	
	12-371	I 131	100 mc.	12-12-50	6696	75.00	3,745.00
VA Hospital, Long Beach, California	12-177	I 131	100 mc.	12-5-50	5067	75.00	
	12-372	Na 24	1 unit	12-11-50	2816	12.00	
	12-530	I 131	100 mc.	12-19-50	5067	75.00	
	12-640	P 32	100 mc.	12-25-50	6467	110.00	
	12-641	Na 24	1 unit	12-27-50	2816	12.00	1,926.00
Veterans Adm., Los Angeles, California	12-178	I 131	50 mc.	12-5-50	6741	37.50	
	12-373	P 32	48 mc.	12-11-50	7679	52.80	
	12-374	I 131	50 mc.	12-12-50	6741	37.50	
	12-528	I 131	50 mc.	12-19-50	6741	37.50	
	12-529	I 131	100 mc.	12-19-50	7428	75.00	
	12-639	I 131	50 mc.	12-26-50	6741	37.50	3,761.80
Veterans Adm., Nashville, Tennessee	12-531	I 131	100 mc.	12-19-50	6867	75.00	2,607.50
Veterans Adm., San Francisco, California	12-376	P 32	50 mc.	12-11-50	5871	55.00	
	12-377	I 131	75 mc.	12-12-50	7547	56.25	
	12-643	I 131	75 mc.	12-26-50	7547	56.25	3,175.00
VA Hospital, Van Nuys, California							4,456.25
George Washington University							418.00
Washington University	12-180	I 131	175 mc.	12-5-50	5889	131.25	
	12-378	I 131	175 mc.	12-12-50	5889	131.25	
	12-532	P 32	250 mc.	12-18-50	6476	275.00	
	12-533	I 131	175 mc.	12-19-50	5889	131.25	
	12-644	I 131	175 mc.	12-26-50	5889	131.25	[illegible]

2003385

CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION

Year 1950
Month December

FREE RADIOISOTOPES REPORT

Name of Customer	Inv. No.	Material Shipped	Quantity	Date Shipped	A. E. C. Approval	Cost	Cost to Date
Western Reserve University	12-182	P 32	50 mc.	12-4-50	7193	55.00	
	12-183	P 32	100 mc.	12-4-50	7193	110.00	
	12-184	I 131	50 mc.	12-5-50	6111	37.50	
	12-534	P 32	50 mc.	12-18-50	7193	55.00	
	12-535	I 131	125 mc.	12-19-50	7980	93.75	
	12-665	I 131	125 mc.	12-5-50	7980	93.75	13,083.66
Worcester Foundation for Exp. Biol.							9,000.00
Yale University	12-188	I 131	200 mc.	12-7-50	7358	150.00	
	12-537	I 131	300 mc.	12-21-50	7358	225.00	4,747.75
						29,281.88	683,625.45