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AEC RESEARCH AND DEVELOPMENT REPORT

This document consists of 5 pages
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CARBIDE AND CARBON CHEMICALS CORPORATION

ENGINEERING DEVELOPMENT DIVISION

THEORETICAL ANALYSIS DEPARTMENT

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

Date: January 10, 1947

Report No: A-3666

CONSUMPTION ESTIMATES

Written by: J. P. Kelly

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CARBIDE AND CARBON CHEMICALS CORPORATION

ENGINEERING DEVELOPMENT DIVISION

THEORETICAL ANALYSIS DEPARTMENT

To: S. Cromer

Date: January 10, 1947
Report No: A-3666

CONSUMPTION ESTIMATES

The following table gives the consumption of T and X at 4137002% operation based on the values in the report, "Surfaces and Consumption of Process Gas in K-25 Plant", by Squires, Moschetto and Resnick. Column 3, Consumption in Gm T/Stage, is taken directly from this report.

J. P. Kelly
J. P. Kelly

Approved by: G. A. Garrett
G. A. Garrett

JPK/mh

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Daily Consumption in the K-25 and

K-27 Plants at 4137002% Operation

Section	Stages	Consumption Gms T/ Stage	Consumption Gms T/ Section	Consumption Gms Units X/Section	
306-7	78	0.247	19	.36	
306-6-5/2	126	0.247	31	.58	306 .00252 Kg Units X
306-5/2-1	372	0.247	92	1.58	
305-12-7	354	0.464	164	2.16	
305-6-1	354	0.464	164	1.24	305 .0034 Kg Units X
304-5-3	174	0.464	81	.34	
304-2-1	114	0.464	53	.16	304 .0005 Kg Units X
303	552	5.07	2800	3.92	
302	276	5.09	1400	.76	
301	222	6.10	1350	.44	
309	90	6.05	545	.16	
310	126	5.05	636	.12	
311	54	1.62	87	.02	
K-27	540	5.09	3290	.52	
Total			10.7 Kg/day	.0124 Kg Units X/day	

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