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ADD signature (final reviewer) Date 7/28/95

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PLANT RECORDS

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

This document has been approved for release to the public by:
Gary W. Hallgren A.S. Quist 8/10/95
Technical Information Officer Date
Oak Ridge K-25 Site

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CARBIDE & CARBON CHEMICALS CORP.

ENGINEERING DIVISION

PROCESS DEVELOPMENT DEPARTMENT

Report No.: 1.13.2
Date: 12/20/45

To: S. Cromer

LABORATORY ANALYSES VS. SPACE RECORDER AT 312-2

The laboratory analyses continue to check the space recorder at 312-2 during the first half of the month of December. The results are recorded below:

Date	Time	Analyses (mol %) Lab.	S. R.	Cell #
12/3	0955	0.053 0.050	0.049	14
12/7	1045	0.064 0.064	0.081	16
12/12	0115	0.022 0.021	0.024	14
12/13	0130	0.042 0.042	0.030	18
12/14	0138		0.017	14

This data shows only that the precision of the space recorder is satisfactory. However, it is quite possible that both laboratory analyses and space recorder results are low because of the possibility of adsorption of C-616 on the surface of the long 1/4" O.D. copper tubing lines leading to the space recorder and the laboratory sampling manifold. Consequently, a trace indicator unit has been built and the unit will be connected to the C-216 charging line at 312-2 cell 2. Gas will be pulled thru the trace indicator in an attempt to measure the C-616 concentration at cell 2 before the process gas passes over the large surface presented by the sampling lines.

S. H. Smiley

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