This document consists of 2 pages
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INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Dr. H. F. Henry
Mr. R. C. Olson
Mr. J. A. Parsons
Mr. H. G. P. Snyder

Copies To: File

Plant: K-25

Date: February 14, 1956

Subject: Significant Accumulations of Process Material

UNCLASSIFIED

K25RC

NOT TO BE LOANED FROM PLANT RECORDS K-1034

KP-962

H18091

The attached tabulation presents pertinent data concerning the condensation of significant quantities of process material in cascade equipment. No data are included for operating experience prior to calendar year 1951. It is to be noted that these condensations have occurred primarily in dead-end systems and resulted from low temperatures.

Classification changed to: UNCLASSIFIED
(level and category)

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

J L McGaugh 8/2/94
ADC or ADD signature (first reviewer) Date

Sam W. Wohlfort 8/29/94
ADD signature (final reviewer) Date

S S Stief
S. S. Stief

KP 962 28 B

KP 962 78 B

ChemRisk Document No. 2505

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.

J D Preston for A Squist 1/24/96

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Union Carbide Nuclear Company, Oak Ridge Gaseous Diffusion Plant, Operating Contractor for the U.S. Atomic Energy Commission.

WCX-163 (8-55)

This form for Inter-Company Correspondence only

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SUMMARY OF MAJOR UF_6 CONDENSATIONS IN CASCADE EQUIPMENT

Date of Condensation	Location	Lb. UF_6 Condensed	U-235 Assay Wt. %	Cause	How Detected	Report No.
8-8-54 to 9-10-54	Dead-end piping in K-902-5 and K-902-6	20,000	1.3 to 1.5	Low ambient temperature in long sections of pipe housing. Units K-902-5 and K-902-6 by-passed during K-33 start-up operations.	Uranium accountability and radiation surveys.	KS-437, Part 3
10-7-53 to 10-11-53	Dead-end piping in K-602-2	21,000	1.3	Low ambient temperature in K-31 to K-33 pipe housing during K-33 start-up operations.	Uranium accountability and radiation surveys.	KS-409, Part 1
3-2-53 to 3-9-53	Spare by-pass piping K-303-1 to K-302-1	120	11.5	Low ambient temperature in pipe housing during operational pump test.	Pressure rise in evacuated piping.	KS-309, Part 4
7-16-52	Cell coolers K-402-2.5	4500	2.0	Low coolant temperature during operational test. Cell floating onstream.	Overload relay tripped on cell start-up.	KS-309, Part 2
1-23-52	Cell pumps K-402-3.9 and K-402-4.10	1800 to 2700	2.3 to 2.4	Low ambient temperature in cell during operational test. Cell floating onstream.	Insulation of 1-A motors burned on cell start-up.	KS-276, Part 2
5-12-51 to 5-18-51	Waste piping K-631	13,500	0.45	Low ambient temperature in pipe housing during K-31 start-up operations.	Uranium accountability and radiation surveys.	KP-222

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