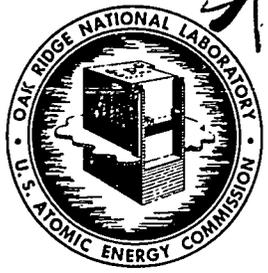


ChemRisk Document No. 1306

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UNION CARBIDE NUCLEAR COMPANY



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OAK RIDGE, TENNESSEE

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ORNL
CENTRAL FILES NUMBER
59-8-115

DATE: August 27, 1959
SUBJECT: IODINE RELEASE INFORMATION
TO: Dr. H. M. Roth
FROM: J. A. Swartout

This document consists of 3 pages.
Copy 16 of 16 copies. Series A

Distribution

- 1-6. H. M. Roth
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OAK RIDGE NATIONAL LABORATORY

OPERATED BY

UNION CARBIDE NUCLEAR COMPANY



POST OFFICE BOX X
OAK RIDGE, TENNESSEE

August 27, 1959

U. S. Atomic Energy Commission
Post Office Box E
Oak Ridge, Tennessee

Attention: Dr. H. M. Roth

Gentlemen:

Subject: IODINE RELEASE INFORMATION

In accordance with your request of July 21, 1959 for estimates of iodine-129 release from ORNL chemical processing operations, values calculated for the years 1944-1959 are given in the appended table. The values to date are given on a yearly basis. The calculations indicate that a total of 3.0×10^{-4} curie of iodine-129 will have been released by the end of 1959. In the future it will be possible to provide data on a quarterly basis, although additional instrumentation may be needed in order to obtain accurate values for iodine-129 releases. For the period 1960-1965, when the Power Reactor Fuel Reprocessing Pilot Plant will be in operation, we estimate that 1.4×10^{-4} curie will be released. This low, future release rate is made possible by the off-gas treatment facility which will be in operation by May 1960.

If further information is required, please call on us.

Sincerely yours,

J. A. Swartout
J. A. Swartout
Deputy Director

JAS:FLC:bb

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Table 1

I-129 Released at the Oak Ridge National Laboratory

<u>Year</u>	<u>Curies of I-129</u>
1944	2.6×10^{-6}
1945	1.4×10^{-6}
1946	1.0×10^{-6}
1947	1.0×10^{-6}
1948	1.3×10^{-6}
1949	5.3×10^{-6}
1950	1.29×10^{-5}
1951	4.6×10^{-6}
1952	6.13×10^{-5}
1953	1.2×10^{-6}
1954	2.4×10^{-6}
1955	9.2×10^{-5}
1956	1.47×10^{-5}
1957	1.12×10^{-5}
1958	4.8×10^{-6}
1959	8.25×10^{-5}

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