



# SINCLAIR RESEARCH, INC.

400 EAST SIBLEY BOULEVARD

HARVEY, ILLINOIS 60426

January 20, 1966

REB  
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U. S. Atomic Energy Commission  
Washington, D. C. 20545

Attention: Isotopes Branch  
Division of Materials Licensing

Gentlemen:

In accordance with the requirements of our Byproduct Material License No. 12-140-4 (G67) Amendment No. 10, and No. 12-140-6 (D66) we are hereby reporting material transfers in accordance with Section 30.24(h)(2)10 CFR 30. The reporting period as required runs from January 1, 1965 to December 31, 1965. Our radioisotope uses in Agreement states are not included in this letter.

1. License 12-140-4 (G67) Condition No. 17. Gasoline containing Hydrogen-3 at a concentration not to exceed  $8 \times 10^{-5}$  microcuries per milliliter in accordance with section 19 of this license.

Date	Refinery Location	Material	Quantity H-3 Transferred, Curies	Maximum Conc. H-3 in Product, microcuries/ml.	Volume of Product, ml.
7-28-65	Wood River	Gasoline	0.100	$4.7 \times 10^{-6}$	$1.6 \times 10^9$
11-3-65	East Chicago	Oil	0.050	$3.1 \times 10^{-5}$	$8 \times 10^8$

2. License No. 12-140-4 (G67) Condition No. 19. Hydrocarbon gases containing Krypton-85 at a concentration not to exceed  $3 \times 10^{-6}$  microcuries per milliliter.

Date	Refinery Location	Material	Quantity of Krypton-85 Transferred, Curies	Maximum Conc. Krypton-85 in Product, microcuries/ml.	Volume of Product, ml.
6-9-65	East Chicago	Gases	0.080	$1 \times 10^{-7}$	$8 \times 10^{11}$
6-30-65	"	"	0.050	$1 \times 10^{-7}$	$8 \times 10^{11}$
7-26-65	"	"	0.050	$1.45 \times 10^{-8}$	$3.5 \times 10^{12}$
7-28-65	Wood River	"	0.100	$1.1 \times 10^{-6}$	$9 \times 10^{12}$
9-16-65	East Chicago	"	0.100	$1.1 \times 10^{-6}$	$9 \times 10^{12}$
9-17-65	"	"	0.050	$1.45 \times 10^{-6}$	$3.5 \times 10^{12}$

3. License 12-140-6 (D66) Bunker C fuel containing cobalt-60 at a concentration not to exceed  $7 \times 10^{-6}$  microcuries per milliliter in accordance with Section 14 of this license.

DUPLICATE  
FOR DIV. OF COMPLIANCE

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<u>Date</u>	<u>Refinery Location</u>	<u>Material</u>	<u>Quantity of Cobalt-60 Transferred, curies</u>	<u>Max. Conc. Cobalt-60 in Product, microcuries/ml.</u>	<u>Volume of Product, ml.</u>
2-10-65	East Chicago	Asphalt	0.0015	$3.7 \times 10^{-7}$	$4 \times 10^9$

As the data above indicate, we have stayed within the concentration limits for the byproduct materials allowed by the licenses concerned.

Yours very truly,

SINCLAIR RESEARCH, INC.

*A. I. Snow*

A. I. Snow, Chairman  
Radioisotope Committee

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