

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose (s) and at the place (s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee		3. License number	
1. Name Sinclair Research Laboratories, Inc. Engine Laboratories		12-1733-1	
2. Address 400 East Sibley Boulevard Harvey, Illinois		4. Expiration date January 31, 1959	
Attn: R. L. Ponticus		5. Reference No.	
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time	
	Service irradiation of alloying elements in cutting tool tip components	200 millicuries	

9. Authorized use

To measure wear of cutting tool tips as a function of cutting oil composition and cutting conditions.

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.

11. Byproduct material is to be used by, or under the supervision of, the individual named above.

12. Except as hereinafter provided the licensee shall comply with provisions of the Atomic Energy Commission's proposed standards for protection against radiation as published in the Federal Register, July 16, 1955 (10-CFR-20), until such time as said proposed regulations or revisions thereof become effective regulations of the Commission.

*Void Superseded by
License No. 12-14023
Jus*

Per the U. S. Atomic Energy Commission

Paul C. Hebersold

Date January 5, 1957

by

Director, Isotopes Extension
Division of Civilian Application
Oak Ridge, Tennessee

422

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

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Licensee 1. Name Sinclair Research Laboratories, Inc. Engine Laboratories 2. Address 400 East Sibley Boulevard Harvey, Illinois Attn: R. L. Fontaine		3. License number 12-1735-1 12-140-3 4. Expiration date January 31, 1959 5. Reference No.
6. Byproduct material (element and mass number)	7. Chemical and/or physical form Service irradiation of alloying elements in cutting tool tip components	8. Maximum amount of radioactivity which licensee may possess at any one time 200 millicuries

9. Authorized use

To measure wear of cutting tool tips as a function of cutting oil composition and cutting conditions.

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. Byproduct material is to be used by, or under the supervision of, the individual named above.
12. Except as hereinafter provided the licensee shall comply with provisions of the Atomic Energy Commission's proposed standards for protection against radiation as published in the Federal Register, July 16, 1955 (10-CFR-20), until such time as said proposed regulations or revisions thereof become effective regulations of the Commission.

over #1, 3/18/57, K7H

For the U. S. Atomic Energy Commission

Date January 5, 1957

by _____

Director, Isotopes Extension
Division of Civilian Application
Oak Ridge, Tennessee

*Best Certified
Filed*

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below, and to use such byproduct material for the purpose (s) and at the place (s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Name	Sinclair Research Laboratories, Inc. Engine Laboratories	3. License number 12-140-3
2. Address	400 East Sibley Boulevard Harvey, Illinois	4. Expiration date January 31, 1959
Attn:	R.L. Pontious	5. Reference No.
6. Byproduct material (element and mass number)	7. Chemical and/or physical form Service irradiation of alloying elements in cutting tool tip components	8. Maximum amount of radioactivity which licensee may possess at any one time 200 millicuries

9. Authorized use
To measure wear of cutting tool tips as a function of cutting oil composition and cutting conditions.

CONDITIONS

- 10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
- 11. Byproduct material is to be used by, or under the supervision of, the individual named above.
- 12. Except as hereinafter provided the licensee shall comply with provisions of the Atomic Energy Commission's proposed standards for protection against radiation as published in the Federal Register, July 16, 1955 (10-CFR-20), until such time as said proposed regulations or revisions thereof become effective regulations of the Commission.

*Superseded by
12-140-4*

For the U. S. Atomic Energy Commission

Paul Kehlbold

Date January 10, 1957

by

Director, Isotopes Extension
Division of Civilian Application
Oak Ridge, Tennessee

BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 12-140-3

AMENDMENT NO. 1

Sinclair Research Laboratories, Inc.
Engine Laboratories
400 East Sibley Boulevard
Harvey, Illinois

Attn: R. L. Pontious

In accordance with application dated March 12, 1957, License No. 12-140-3 is amended to add:

6. Byproduct material
(element and mass number)

Iron 59 and other isotopes
resulting from service
irradiation

7. Chemical and/or
physical form

Piston rings

8. Maximum amount of radio-
activity which licensee
may possess at any one time

200 millicuries

9. Authorized use

Wear studies.

*Supervised by
12-140-4*

For the U. S. Atomic Energy Commission

Paul C. Chiversold

Director, Isotopes Extension
Division of Civilian Application
Oak Ridge, Tennessee

Date March 20, 1957