

BYPRODUCT MATERIAL LICENSE NO. 37-1258-2 Amendment No. 1
(E64)

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 | | In accordance with application dated April 23, 1959, and letter from W. A. Wilson dated April 21, 1959 | |
|--|---|--|--|
| 1. Name | Jones & Laughlin Steel Corporation Research Division | 3. License number | 37-1258-2 is amended in its entirety to read as follows: |
| 2. Address | Research & Development Department Building No. 3 Gateway Center Pittsburgh 30, Pennsylvania | 4. Expiration date | May 31, 1964 |
| | | 5. Reference No. | DUPLICATED |
| 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. | |
| A. Thallium-204 (See page 2) | A. Sealed source (Industrial Nucleonics Corp. Model BB-0008) (See page 2) | A. 1 source of 100 millicuries (See page 2) | |
| 9. Authorized use | | | |

A. To be used in Industrial Nucleonics Corp. Accuray Beta Gauge Model RBL for production line measurements.

(See page 2)

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. Byproduct material may also be used at Jones & Laughlin Research Laboratory & Steel Mill, 900 Agnew Road, Pittsburgh 27, Pennsylvania; Jones & Laughlin Steel Mill, Aliquippa, Pennsylvania and Jones & Laughlin Steel Mill, Youngstown, Ohio.
12. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards For Protection Against Radiation".
13. Byproduct material shall be used by, or under the direct supervision of, Walter A. Wilson.
14. Byproduct material as sealed sources shall not be opened.
15. Sealed sources containing byproduct material except solid metal Iridium-192; Tantalum-182, Cobalt-60 plated with gold or nickel; and gases shall be tested for leakage and contamination at intervals of not more than six (6) months and records of test results shall be maintained by the licensee.

Date May 8, 1959

WSC/Cooper

For the U. S. Atomic Energy Commission

Original Signed By
James R. Mason

by Chief, Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

REB

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A12

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSEPage 2 of 2 Pages

Supplementary Sheet

Continued from page 1

License Number 37-1258-2
(E64)

Amendment No. 1

| 6. Byproduct material (element and mass number) | 7. Chemical and/or physical form | 8. Maximum amount of radio- activity which licensee may possess at any one time |
|--|---|--|
| B. Strontium-90 | B. Sealed source (Industrial Nucleonics Corp. Model BB-0020) | B. 1 source of 25 millicuries |
| C. Krypton-85 | C. Sealed source (Industrial Nucleonics Corp. Model BB-0030) | C. 1 source of 250 millicuries |
| D. Krypton-85 | D. Sealed source (Industrial Nucleonics Corp. Model BB-10061) | D. 1 source of 1 curie |

9. Authorized Use

- B. To be used in Industrial Nucleonics Corp. Accuray Beta Gauge Model RBM for production line measurement.
- C. To be used in Industrial Nucleonics Corp. Accuray Beta Gauge Model RBK for production line measurement.
- D. To be used in Industrial Nucleonics Corp. Accuray Beta Gauge Model RBK for experimental production line measurements.

For the U. S. Atomic Energy Commission

Date May 8, 1959

Original Signed By,
James R. Mason
Chief, Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

1. Cooper