

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

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 37-1278-2
1. Name Jones & Laughlin Steel Corporation Research and Development Dept -	2. Address Research Division Bldg. #3, Gateway Center Pittsburgh 30, Pennsylvania	4. Expiration date June 30, 1979
		5. Reference No.
6. Byproduct material (element and mass number) * Thallium 204 (see page 2)	7. Chemical and/or physical form Industrial Nucleonics Corporation Scaled Source Model # IS-0008 (see page 2)	8. Maximum amount of radioactivity which licensee may possess at any one time 100 millicuries (see page 2)

9. Authorized use

**Tl-204: To be used in Industrial Nucleonics Corporation Accuray Beta Gauge Model
EBL for production line measurement.**

(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 to be used only at Jones & Laughlin Research Laboratory, 900 Agnew Road, Pittsburgh 27, Pennsylvania.**
12. **Byproduct material to be used by, or under the supervision of, Walter A. Wilson or Harry F. Osterman.**
13. **Scaled sources licensed above shall not be opened or combined or removed from the device by licensee.**
14. **Installation of gauges, initial radiation survey, maintenance, repair, and disposal shall be performed by Industrial Nucleonics Corporation.**

(see page 2)

WASB/ly

For the U. S. Atomic Energy Commission

Date **June 6, 1977**

by PCA/LOOM 6/6/77

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

All

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary SheetLicense Number 37-1258-2

(continued)

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
Krypton 85	Industrial Nucleonics Corp- oration Sealed Source, Model # EB-0030	250 millicuries
*Strontium 90	Industrial Nucleonics Corp- oration Sealed Source, Model # EB-0020	25 millicuries

9. Authorized use

Kr-85: To be used in Industrial Nucleonics Corporation Accuracy Beta Gauge Model RBK for production line measurement.

Sr-90: To be used in Industrial Nucleonics Corporation Accuracy Beta Gauge Model RBM for production line measurement.

CONDITIONS (continued)

- *15. Leak testing of sealed sources containing beta and/or gamma-emitting byproduct material (except those containing Iridium 192, Tantalum 182, Gold 198, and plated Cobalt 60 in solid metallic form) shall be carried out at intervals of not more than six months and records of leak test results shall be furnished the Atomic Energy Commission upon request.

Am #1 5-5-59 WSC

For the U. S. Atomic Energy Commission

Date June 6, 1957by _____
Director, Isotopes Extension
Division of Civilian Application
Oak Ridge, Tennessee