

## JONES & LAUGHLIN STEEL CORPORATION

#### **3 GATEWAY CENTER**

PITTSBURGH. PA. 15230

June 28, 1967

Director
Division of Materials Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Sir:

Enclosed is our application of renewal of our current license No. 37-2567-2(F67) dated June 17, 1965, including amendment 1 dated February 15, 1966.

Since the 2.0 curies of Cesium 137 no longer has application in our present gauging system, this radioactive source has been returned to Nuclear-Chicago Corporation on June 27, 1967.

Therefore, all statements, representations, and procedures contained in the previous license applications dated May 21, 1965 and June 19, 1966 are hereby referred to for further details, with the deletions of all references to the one sealed source, 2.0 Curies of Cesium 137.

If further information is desired, please address reply to:

Gerald L. Owens, General Foreman
Blast Furnace Department
Jones & Laughlin Steel Corporation
Aliquippa Works Div.
Aliquippa, Pa. 375-5551
TELEPHONE: 412-761-8000, extension 4706

Very truly yours,

T. B. Duckworth. Superintendent

Blast Furnace Department



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# U. S. ATOMIC ENERGY COMMISSION MATERIAL LICENSE

## Page 1 of 1 Pages

Supplementary Sheet

License Number_	37-02567-02
License Number	(F67)

Amendment No.\_1

Jones & Laughlin Steel Corporation Aliquippa Works Division Aliquippa, Pennsylvania 15001

In accordance with application dated January 19, 1966, License No. 37-02567-02 is hereby smended as follows:

### To Add:

- Byproduct material (element and mass number)
- B. Americium 241

- 7. Chemical and/or physical form
- B. Sealed source (Monsanto Model MS22-NC)
- Maximum amount of radioactivity which licensee may possess at any one time
- B. 2 curies.

- 9. Authorized use
- B. To be used in a Nuclear-Chicago Model 507 moisture gauge to measure moisture content of coke.

Conditions 15 and 16 are amended to read:

- 15. Initial installation and survey, source replacement, and maintenance and repair of source holders containing byproduct material shall be performed only by Nuclear-Chicago Corporation or other persons specifically authorized by the Commission or an Agreement State to perform such services.
- 16. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations and procedures contained in applications dated May 21, 1965, and January 19, 1966.

For the U.S. Atomic Energy Commission Cecil R. Buchange

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

Date WE 17
1. WEH/Ga chis

FT N AE -374

# I. S. ATOMIC ENERGY COMMISSIC BYPRODUCT MATERIAL LICENSE

Page 1 of \_\_\_\_\_ Pages

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 Jones & Laughlin Steel Corporation Aliquippa Works Division 2. Address Aliquippa, Pennsylvania		3. License number 37-2567-2 (F67)			
		4. Expiration date  June 30, 1967			
•	``	5. Reference	No.		
•	•				
6. Byproduct material (element and mass numb	7. Chemical and/or per)		8. Maximum amount of radioactivity which licensee may possess at any one time		

- 9. Authorized use
- A. To be used in Nuclear-Chicago Corporation Model 506 Density Gauge to measure bulk density of coke.

### CONDITIONS

- 10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
- 11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
- 12. Byproduct material shall be used by, or under the supervision of, Gerald L. Owens or G. G. Aromatorio.
- 13. Sealed sources containing byproduct material shall not be opened or removed from their respective source holders by the licensee.
- 14. A. Each sealed source containing byproduct material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall be put into use until tested.

(See	page	2

Form AEC-313 8-45 10 CFR 30 UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved.
Budget Bureau No. 38-8027

114/1/2

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commisson with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 20.

(o) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc. Include ZIP Code.)

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (II different from 1 (a). Include ZIP Code.)

Jones & Laughlin Steel Corporation Aliquippa Works Div. Aliquippa, Pa. 15001

Not applicable

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

Renewal - 37-2567-2

Blast Furnace Department

NDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly
supervise use of byproduct material. Give training and experience in Items 8 and

 RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resums of his training and experience as in Items 8 and 9.)

Gerald L. Owens, General Foreman Blast Furnace Dept. G. G. Aromatorio, Asst. Supt. Gerald L. Owens, Gen. Foreman Blast Furnace Dept.

Blast Furnace Dept.

6. (a) SYPRODUCT MATERIAL. (Elements and mass number of each.)

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS-ICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If seeled source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

Americium 241

1 - sealed source

2.0 curies

0.407 grams Americium 241, stainless steel encapsulated as one 2.0 curie. AM-BE neutron source. (Monsanto Model NS22-NC)

DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "humon use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

To be used in Nuclear-Chicago Corporation Qualicon 5072 Bulk Moisture Gage to measure moisture content of coke by reflection.

To be specifically contained within Nuclear-Chicago Model 507 housing.

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