

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary Sheet

Page 1 of 1 Pages

License Number 12-08271-01

Amendment No. 07

General Steel Industries, Inc.
1417 State Street
Granite City, Illinois 62040

In accordance with letter dated February 17, 1969, License Number 12-08271-01 is amended as follows:

The expiration date in Item 4 is changed to March 31, 1974.

Condition 13. is amended to read:

13. 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:

A. Applications dated February 15, 1963 and February 6, 1969.

B. Letter dated June 1, 1965, from H. B. Norris.

Date MAR 17 1969

For the U. S. Atomic Energy Commission

ORIGINAL SIGNED BY
JAMES C. MALARO

by Isotopes Branch

Division of Materials Licensing
Washington, D. C. 20545

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U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary Sheet

Page 1 of 1 Pages

License Number 12-08271-01

Amendment No. 06

General Steel Industries, Inc.
1417 State Street
Granite City, Illinois 62040

In accordance with letter dated November 4, 1968, License Number
12-08271-01 is amended as follows:

Condition 13.C. is added:

13. C. Letter dated November 4, 1968, from H. B. Norris. ^X

NOV 29 1968

Date _____

cm
11-29-68

For the U. S. Atomic Energy Commission
ORIGINAL SIGNED BY
JAMES C. MALARO

by Isotopes Branch

Division of Materials Licensing
Washington, D. C. 20545

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U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSEPage 1 of 1 Pages

Supplementary Sheet

License Number 12-08271-01Amendment No. 05

General Steel Industries
1417 State Street
Granite City, Illinois
62040

In accordance with application dated January 18, 1968, License Number 12-08271-01 is amended as follows:

To add:

6. Byproduct material (element and mass number) B. Cobalt 60	7. Chemical and/or physical form B. Sealed Source (Radionics Model P60-100)	8. Maximum amount of radioactivity which licensee may possess at any one time B. No single source to exceed 80 curies
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9. Authorized use

- B. To be used in Radionics Model P60-100-2 exposure device for industrial radiography.

Condition 13. is amended to read:

13. 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:

- A. Applications dated February 15, 1963, April 26, 1966, and January 18, 1968.
B. Letter dated June 1, 1965, from H. B. Norris.

For the U. S. Atomic Energy Commission
ORIGINAL SIGNED BY
JAMES C. MALARO
Isotopes Branch

by

Division of Materials Licensing
Washington, D. C. 20545

FEB 14 1968

Jan
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ECM/gcc

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary Sheet

License Number 12-05271-01
Amendment No. 05

General Steel Industries
1417 State Street
Granite City, Illinois
62040

In accordance with application dated January 18, 1968, License Number
12-05271-01 is amended as follows:

To add:

6. Byproduct material
(element and mass number)

B. Cobalt 60

7. Chemical and/or physical form

B. Sealed Source
(Radionics Model
P60-100)

8. Maximum amount of radioactivity which
licensee may possess at any one time

B. No single source
to exceed
80 curies

9. Authorized use

B. To be used in Radionics Model P60-100-2 exposure device for
industrial radiography.

Condition 13. is amended to read:

13. 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:

- A. Applications dated February 15, 1963, April 26, 1966, and
January 18, 1968.
- B. Letter dated June 1, 1965, from H. B. Morris.

For the U. S. Atomic Energy Commission

ORIGINAL SIGNED BY

JAMES C. MALATO

Isotopes Branch

by

Division of Materials Licensing
Washington, D. C. 20545

FEB 14 1969

Date

GENERAL STEEL INDUSTRIES, INC.

CASTINGS DIVISION

1417 State Street
Granite City, Illinois 62040
618 • GL 2-2120

January 15, 1968

Mr. James Milaro
Senior Reviewer
Division of Licensing and Regulation
United States Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Milaro:

Enclosed is our application for the amendment of United States Atomic Energy Commission Byproduct Material License #12-8271-1 comprising form A. E. C. -313R (9-62) and amendments (a) through (i) required under item #6. This amendment is for the purpose of adding to our facilities through the purchase of a new camera and 80 curie cobalt 60 source described in the application. Previously licensed equipment and its use has not been changed.

Our application has been updated to include changes in corporation and departmental personnel.

The application includes a description of the building facilities in which the new source will be used.

The camera and source have been ordered because of present production requirements and we would appreciate receiving your decision on this amendment quickly so that we can put the source into use.

Sincerely,

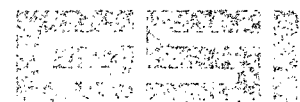
H B Norris

H. B. Norris
Manager of Quality Control

HBN:lw

Enc.

Remainder of appl. in Supp. File



Form AEC-313R
(9-62)

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE—
USE OF SEALED SOURCES IN RADIOGRAPHY

Form approved.
Budget Bureau No. 38-R137

SEE ATTACHED FORM AEC-313R INSTRUCTIONS—USE SUPPLEMENTAL SHEET WHERE NECESSARY
BE SURE ALL ITEMS ARE COMPLETED AND THAT ALL NECESSARY ATTACHMENTS ARE FURNISHED. IF ANY PORTION
OF THE APPLICATION IS NOT APPLICABLE SPECIFICALLY SO STATE. DEFICIENT OR INCOMPLETE APPLICATIONS
MAY BE RETURNED WITHOUT CONSIDERATION.

1(a) NAME AND ADDRESS OF APPLICANT
General Steel Industries, Inc.
1417 State Street
Granite City, Illinois 62040

2. PREVIOUS LICENSE NUMBER(S) (Indicate if application is for renewal or amendment
of an existing byproduct material license.)
Amendment of license #12-8271-1

1(b) APPLICANT IS: An individual ☐ A partnership ☐ A Corporation ☒ An
Unincorporated Association ☐ Other ☐ If applicant is other than an individ-
ual, the applicable section on the reverse side must be completed.

3. LOCATION(S) WHERE SEALED SOURCES WILL BE USED AND/OR STORED. (If use
will be made in states other than named in 1(a), they should be listed here.)
General Steel Industries, Inc.
1417 State Street
Granite City, Illinois 62040

4. SEALED SOURCES TO BE USED IN RADIOGRAPHY
Budd Assembly No. 300-041706 (B)
Radionics Inc. P60-100-2

BYPRODUCT MATERIAL (Element and Mass No.)	SOURCE MODEL NUMBER	NAME OF MANUFACTURER	MAXIMUM ACTIVITY PER SOURCE	NUMBER OF SOURCES
A. Co ⁶⁰	A. C-374	A. Nuclear Consultants	A. 280 mc	A. one
B. Co ⁶⁰	B. C-375	B. Corp.	B. 260 mc calibrated 7-22-62	B. one
C. Co ⁶⁰	C. P60-100	C. Radionics Inc.	C. 80 curie	C. one

5. RADIOGRAPHIC EXPOSURE DEVICES AND/OR STORAGE CONTAINERS TO BE USED WITH SOURCES LISTED ABOVE

MODEL NUMBER	NAME OF MANUFACTURER (If custom made, attach complete design specification.)
A. Unitron 110A Ser. #1116	A. Budd Company Instruments Division
B. Unitron 110A Ser. #1117	B. Budd Company Instruments Division
C. 1 Model P60-100-2	C. Radionic Inc.

6. THE FOLLOWING INFORMATION IS ATTACHED AS A PART OF THIS APPLICATION: (Check appropriate blocks and attach information called for in the instructions with this form.)

	Not Applicable	Attached	Previously Submitted
(a) Description of radiographic facilities (Instruction 6-a)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(b) Description of radiation detection instruments to be used (Instruction 6-b)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(c) Instrument calibration procedures (Instruction 6-c)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(d) Personnel monitoring equipment (Instruction 6-d)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(e) Operating and emergency procedures (Instruction 6-e)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(f) Training program (Instruction 6-f)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(g) Internal inspection system or other management control (Instruction 6-g)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(h) Overall organizational structure (Instruction 6-h)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)
(i) Leak testing procedures (Instruction 6-i)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> on Jan. 11, 1966 (DATE)

CERTIFICATE. (This item must be completed by applicant)

7. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CON-
FORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO,
IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

General Steel Industries, Inc.
Applicant Named in Item 1

By: W. G. Remme
Works Manager
Title of Certifying Official

DATE January 18, 1968

WARNING.—18 U.S.C., Section 1001, Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or
agency of the United States as to any matter within its jurisdiction.

LEGAL STRUCTURE OF APPLICANT

If applicant is a corporation, complete Items 8 through 11; if applicant is a partnership, complete Items 12 through 14; if applicant is an unincorporated association or a legal entity other than a partnership or corporation, complete Items 15 and 16. Attach separate sheets where space provided proves inadequate.

CORPORATION**8. STOCK OF APPLICANT CORPORATION**

NO. OF SHARES AUTHORIZED	NO. OF SHARES ISSUED	NO. OF SHARES SUBSCRIBED	TOTAL NUMBER OF:	
			(a) Stockholders	(b) Subscribers
6,000,000	2,266,148	-	7850	

9. Is applicant corporation directly or indirectly controlled by another corporation or other legal entity? YES ☐ NO ☒
If answer is "YES" give name and address of other corporation or other legal entity and describe how such control exists and the extent thereof.

10. (a) Identify by name and address any individual, corporation, or other legal entity (1) owning 10 percent or more of the stock of applicant corporation issued and outstanding or (2) subscribing to 10 percent or more of the authorized but unissued stock of the corporation.
(b) Identify by name and address all officers and directors of the corporation.

(a) None

(b) See Attached

11. Identify the State, District, Territory, or possession under the laws of which the applicant is incorporated.

PARTNERSHIP

12. Name and address of each individual or legal entity owning a partnership interest in the applicant.

13. State the percent of ownership of the applicant partnership held by each of the individuals or legal entities listed in Item 12.

14. Identify the State, District, Territory, or possession under the laws of which the applicant partnership is organized.

OTHER

15. Describe the nature of the applicant and identify the State, District, Territory, or possession under the laws of which it is organized.

16. State the total number of members or persons holding an ownership in the applicant, identify each by name and address, and indicate the ownership interest thereof.

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICEN

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, 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.

<p align="center">Licensee</p> <p>1. Name General Steel Industries</p> <p>2. Address 1417 State Street Granite City, Illinois 62040</p>		<p>In accordance with application dated April 26, 1966,</p> <p>3. License number 12-08271-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date June 30, 1969</p> <p>5. Reference No.</p>
<p>6. Byproduct material (element and mass number)</p> <p>A. Cobalt 60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (Budd Company Model 41706)</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. No single source to exceed 1 curie</p>

9. Authorized use

- A. To be used in Budd Company Model 110AB exposure device for industrial radiography.**

CONDITIONS

- 10. Byproduct material may only be used at 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," and Part 34, "Licenses for Radiography and Radiation Safety Requirements for Radiographic Operations." In lieu of the control device requirements of Section 20.203(c)(2), 10 CFR 20, the entrance to the high radiation area must be under continuous surveillance of a radiographer or radiographer's assistant and/or locked, so as to make the area inaccessible at all times when a radiation level exists therein which could cause an individual to receive a dose in excess of 100 millirem in one hour.**

(Continued on Page 2)

Supplementary Sheet

License Number 12-08271-01

Continued from Page 1

Amendment No. 04

CONDITIONS

12. The licensee is authorized to receive, possess, and use sealed sources of Cobalt 60 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
- A. Such possession does not exceed the quantity per source specified Item 8 by more than 10%;
 - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of the license was ordered from the supplier or transferor of the byproduct material; and
 - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in Section 34.21, 10 CFR 34.
13. 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:
- A. Applications dated February 15, 1963, and April 26, 1966.
 - B. Letter dated June 1, 1965, from H. B. Norris.

For the U. S. Atomic Energy Commission

Date JUN 6 1966

Original Signed by
William O. Miller
by Isotopes Branch
Division of Materials Licensing
Washington, D. C. 20545

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

License No. 12-08271-01

Page 1 of 2 Pages

Amendment No. 04

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, 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.

<p align="center">Licensee</p> <p>1. Name General Steel Industries</p> <p>2. Address 1417 State Street Granite City, Illinois 62040</p>		<p>In accordance with application dated April 26, 1966,</p> <p>3. License number 12-08271-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date June 30, 1969</p> <p>5. Reference No.</p>
<p>6. Byproduct material (element and mass number)</p> <p>A. Cobalt 60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (Budd Company Model 41706)</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. No single source to exceed 1 curie</p>

9. Authorized use

- A. To be used in Budd Company Model 110AB exposure device for industrial radiography.

CONDITIONS

10. Byproduct material may only be used at 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," and Part 34, "Licenses for Radiography and Radiation Safety Requirements for Radiographic Operations." In lieu of the control device requirements of Section 20.203(c)(2), 10 CFR 20, the entrance to the high radiation area must be under continuous surveillance of a radiographer or radiographer's assistant and/or locked, so as to make the area inaccessible at all times when a radiation level exists therein which could cause an individual to receive a dose in excess of 100 millirem in one hour.

(Continued on Page 2)

BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 12-08271-01

Amendment No. 04

Continued from Page 1

CONDITIONS

12. The licensee is authorized to receive, possess, and use sealed sources of Cobalt 60 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
- A. Such possession does not exceed the quantity per source specified Item 8 by more than 10%;
 - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of the license was ordered from the supplier or transferor of the byproduct material; and
 - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in Section 34.21, 10 CFR 34.
13. 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:
- A. Applications dated February 15, 1963, and April 26, 1966.
 - B. Letter dated June 1, 1965, from H. B. Norris.

JUN 6 1966

Date _____

com/ff

NS-3-66

For the U. S. Atomic Energy Commission

Original Signed by
William O. Miller

by Isotopes Branch

Division of Materials Licensing
Washington, D. C. 20545



GENERAL STEEL INDUSTRIES, INC.

GRANITE CITY, ILL.

April 15, 1966

Mr. James Mason, Chief
Division of Licensing & Regulation
United States Atomic Energy Commission
Washington 25, D. C.

Dear Mr. Mason:

Enclosed is our application for the renewal of United States Atomic Energy Commission Byproduct Material License #12-8271-1 comprising form A. E. C. -313R (9-62) and attachments (a) through (i) required under item #6.

A copy of Mr. Loren J. Hueter's latest inspection report is also attached, as well as the report of the State Board of Health of Illinois.

During the preceding license year no changes have been made in building construction, equipment, source size or type, involving radiography with isotopes. A few names have been changed due to changes in corporation personnel.

Please send a supply of forms for next year's license application, and any amendments or changes that occurred during the recent months.

Would you please take this application under advisement and notify us of your decision.

Yours very truly,

William H. Rapp

W. H. Rapp
Manager of Quality Control

/vh

Enc.

