

Amendment No. 09

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Chicago Bridge and Iron Company</p> <p>2. 8900 Fairbanks North Houston Road P. O. Box 40066 Houston, Texas 77240</p>	<p>In accordance with letter dated May 17, 1984</p> <p>3. License number 42-13553-02 is amended in its entirety to read as follows:</p> <p>4. Expiration date May 31, 1990</p> <p>5. Docket or Reference No. 030-09727</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. See Condition 10.</p> <p>B. Cobalt-60</p> <p>C. Cesium-137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources</p> <p>B. Technical Operations (TO) Model 571 source rods</p> <p>C. TO Model 77302 sealed sources</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. See Condition 10.</p> <p>B. Not to exceed 15 millicuries per source</p> <p>C. Not to exceed 150 millicuries per source</p>

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## 9. Authorized use:

- A. For use in industrial radiography and replacement of sources.
- B. For use in TO Model 571 Meter Calibration Kits for calibration of survey meters.
- C. For use in TO Model 773 calibrator for calibration of survey instruments.

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## CONDITIONS

10. Sealed sources, exposure devices, and source changers authorized for use are as follows:

Isotope	Manufacturer & Model No. of Source Assemblies	Maximum Activity per Source	Manufacturer & Model No. of Exposure Devices	Manufacturer & Model No. of Source Changers
A. Ir-192	A424-9	100 curies	TO Model 660	TO Model 650
B. Ir-192	A58101-8	200 curies	TO Model 616	
C. Ir-192	A90003	200 curies	TO Model 920	TO Model 850
D. Co-60	A424-14	100 curies	TO Model 680	TO Model 771
E. Co-60	A424-13	200 curies	TO Model 676	TO Model 770 (Not to exceed 200 curies Co-60 for storage or replacement)

11. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United States where the Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
12. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections," Part 20, "Standards for Protection Against Radiation," and Part 34, "Licenses for Radiography and Radiation Safety Requirements for Radiographic Operations."

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13. A. Pursuant to Section 34.25, 10 CFR 34, the licensee is authorized to perform tests for leakage or contamination of the sealed sources authorized by this license in accordance with procedures contained in application dated December 1, 1978.
- B. Notwithstanding the periodic leak test required by Section 34.25(b), 10 CFR 34, such requirement does not apply to radiography sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within 6 months prior to the date of use or transfer.
- C. Sealed sources authorized for a use other than radiography shall be tested as radiography sources in accordance with Section 34.25 of 10 CFR 34.
14. The licensee is authorized to receive, possess, and use sealed sources of iridium-192 or 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 in Item 8 by more than 20% for iridium-192 or 10% for cobalt-60;
- 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.
15. Pursuant to Title 10, Chapter 1, Code of Federal Regulations, Part 40, "Domestic Licensing of Source Material," the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of uranium contained as shielding material in the radiography exposure devices and source changers authorized by this license.

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16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated December 1, 1978; and letters dated February 12, 1979, April 28, 1981, May 15, 1981, October 1, 1982, November 4, 1983, December 21, 1983, May 17, 1984, August 24, 1984, and April 30, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By

By

Nuclear Materials Safety Section  
Region IV  
Arlington, Texas 76011

Date MAY 28 1985

Official Record Copy

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