

## MATERIALS LICENSE

Amendment No. 23

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). 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.

Licensee	
1. Crane Midwest Fittings	In accordance with application dated August 14, 1985
2. 1450 South Second Street St. Louis, MO 63166	3. License number 24-00563-02 is amended in its entirety to read as follows:
	4. Expiration date December 31, 1990
	5. Docket or Reference No. 030-05066
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form
A. Iridium-192	A. Sealed source(s) (Technical Operations Model A-424-1)
B. Cobalt-60	B. Sealed source(s) (Technical Operations Model A-424-3)
C. Cobalt-60	C. Sealed source(s) (Technical Operations Model A-453-2)
	8. Maximum amount that licensee may possess at any one time under this license
	A. No single source to exceed 50 curies
	B. No single source to exceed 20 curies
	C. No single source to exceed 20 curies
9. Authorized Use	
A. For use in Technical Operations Model 412 exposure devices for industrial radiography and in Technical Operations Model 650 source changers for storage and replacement of sources.	
B. For use in Technical Operations Model 491 exposure devices for industrial radiography and in Technical Operations Model 416 or 771 source changers for storage and replacement of sources.	
C. For use in Technical Operations Model 520 exposure devices for industrial radiography and in Technical Operations Model 416 or 771 source changers for storage and replacement of sources.	

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24-00563-02 PDR

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

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CONDITIONS

10. Licensed material shall be used only at 1450 South 2nd Street, St. Louis, Missouri.
11. 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."
12. 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 letter dated November 27, 1985 (with attached manual).
- 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 six 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.
13. 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.
14. Sealed sources containing licensed material shall not be opened.
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. 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 August 14, 1985 (with attachments); and letters dated August 13, 1985 and November 27, 1985 (with attached manual). 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

Date

DEC 17 1985

Original Signed

By J. R. Madera

Materials Licensing Section, Region III

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## CONVERSATION RECORD

TIME

9:00 (a)

DATE

12/10/85

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

George W. Eckert, RSO.

Crane Midwest

314/621-8300

SUBJECT

CN 79587

SUMMARY

① Cell survey:

a) 9 curies of Co-60 or Ir-192? Co-60 is source used for survey.b) unrestricted areas =  $< 1 \text{ mR/hr}$  - what are actual readings? When new source comes in a new survey will be made. (needles barely off zero reading).c.) What is the density of the concrete used for barrier walls and roof of the exposure cell?  $\approx 140 \text{ lb/cubic ft.}$ 

Mr. Eckert will send us the results of survey with 20 curies of Co-60 when and if they acquire that high of a source - business is slow and they will probably stick with 9-10 curies of Co-60.

ACTION REQUIRED

N/A

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

ACTION TAKEN

SIGNATURE

TITLE

DATE