

## 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). 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. Pogue Industries Incorporated	3. License number 24-24541-01	
2. 4961 Caribbee Drive St. Louis, MO 63128	4. Expiration date September 30, 1990	
	5. Docket or Reference No. 030-28804	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Iridium-192	A. Sealed source(s) (Gamma Industries Model A-2-A, Industrial Nuclear Model 2 or 8, or Technical Operation Model 848)	A. No single source to exceed 100 curies
B. Iridium-192	B. Sealed source(s) (Gamma Industries Model A-2-A, Industrial Nuclear Model 2 or 8, or Technical Operations Model 848)	B. No single source to exceed 35 curies
C. Iridium-192	C. Sealed source(s) (Industrial Nuclear Model #9 or Gamma Industries Model M-1-A or M-1-T)	C. No single source to exceed 100 curies
D. Iridium-192	D. Sealed source(s) (Industrial Nuclear Model #32 or #33)	D. No single source to exceed 100 curies
E. Iridium-192	E. Sealed source(s) (Technical Operations Model A-424-9, Industrial Nuclear Model #7 or Gamma Industries Model T-3-T)	E. No single source to exceed 100 curies

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6. Byproduct, source,  
and/or special nuclear  
material

7. Chemical and/or  
physical form

8. Maximum amount that  
licensee may possess  
at any one time  
under this license

F. Iridium-192

F. Sealed source(s)  
(Technical Operations  
Model A-424-1 of Industrial  
Nuclear Model #1)

F. No single source  
to exceed 100 curies

G. Iridium-192

G. Sealed source(s)  
(Technical Operations  
Model 90003)

G. No single source  
to exceed 200 curies

H. Iridium-192

H. Sealed source(s)  
(Technical Operations  
Model 90003)

H. No single source  
to exceed 100 curies

I. Iridium-192

I. Sealed source(s)  
(Technical Operations  
Model 91003)

I. No single source  
to exceed 25 curies

J. Cesium-137

L. Sealed source(s)  
(Technical Operations  
Model 77302)

L. One source of  
165 millicuries

9. Authorized Use

- A. For use in Gamma Industries Model Gamma Century SA or Gamma Centry S exposure devices for industrial radiography and in Gamma Industries Model C-10 source changers for storage and replacement of sources.
- B. For use in Gamma Industries Model Gamma 35SA or 35S exposure devices for industrial radiography and in Gamma Industries Model C-10 source changers for storage and replacement of sources.
- C. For use in Magnaflux Model MX-IC-100 exposure devices for industrial radiography and in Industrial Nuclear Model IR-50 source changers for storage and replacement of sources.
- D. For use in Industrial Nuclear Model IR-100 exposure devices for industrial radiography and in Industrial Nuclear Model IR-50 source changers for storage and replacement of sources.

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9. Authorized Use (cont'd)

- E. For use in Technical Operations Model 660 exposure devices for industrial radiography and in Technical Operations Model 650 source changers for storage and replacement of sources.
- F. For use in Technical Operations Model 533 exposure devices for industrial radiography and in Technical Operations Model 650 source changers for storage and replacement of sources.
- G. For use in Technical Operations Model 920 exposure devices for industrial radiography and in Technical Operations Model 850 source changers for storage and replacement of sources.
- H. For use in Technical Operations Model 900 exposure devices for industrial radiography and in Technical Operations Model 850 source changers for storage and replacement of sources.
- I. For use in Technical Operations Model 910 exposure devices for industrial radiography and in Technical Operations Model 850 source changers for storage and replacement of sources.
- J. For use in Technical Operations Model 733 instrument calibrator for licensee instrument calibration.

CONDITIONS

10. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

Licensed material may be stored at the licensee's facilities located at 5200 Manchester, 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 application dated July 18, 1985.

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- 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.
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 of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
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 July 18, 1985 (with attachments) and letter dated August 29, 1985 (with attachments). 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 J.R. Madera

Materials Licensing Section, Region III

Date September 9, 1985

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