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**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. Tumbleweed X-Ray Company  
  
2. P. O. Box 1592  
Weatherford, Oklahoma 73096

3. License number **35-21425-01**

4. Expiration date **September 30, 1988**

5. Docket or Reference No.

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 Sources (Source Production and Equipment Company Model G-3	A. Not to exceed 100 curies per source
B. Iridium 192	B. Sealed Sources (Source Production and Equipment Company Model T-3)	B. Not to exceed 100 curies per source
C. Iridium 192	C. Sealed Sources (Technical Operations Model A-424-9)	C. Not to exceed 100 curies per source
D. Iridium 192	D. Sealed Sources (Gamma Industries Model T-3-T)	D. Not to exceed 100 curies per source
E. Iridium 192	E. Sealed Sources (Source Production and Equipment Company Model T-5)	E. Not to exceed 100 curies per source
F. Iridium 192	F. Sealed Sources (Gamma Industries Model A-1-A or A-1-G)	F. Not to exceed 100 curies per source

9. Authorized use

A. For use in Source Production and Equipment Company Model 2-T exposure devices for industrial radiography and Source Production & Equipment Company Model C-1 source changers for storage and replacement of sources.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

35-21425-01

Docket or Reference number

## 9. Authorized use continued

- B. For use in Technical Operation Model 660 exposure devices for industrial radiography and Source Production and Equipment Company Model C-1 source changers for storage and replacement of sources.
- C. For use in Technical Operations Model 660 exposure devices for industrial radiography and Technical Operations Model 650 source changers for storage and replacement of sources.
- D. For use in Technical Operation Model 660 exposure devices for industrial radiography Gamma Industries Model C-10 source changers for storage and replacement of sources.
- E. For use in Technical Operations Model 660 exposure devices for industrial Source Production and Equipment Company Model C-1 source changers for storage and replacement of sources.
- F. For use in Gamma Industries Model Gamma Century exposure devices for industrial radiography and Gamma Industries Model C-10 source changers for storage and replacement of sources.

## CONDITIONS

- 10. 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.
- 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. Licensed material shall be used by, or under the supervision of, Otho G. Jones or individuals who complete the training program described in application dated July 19, 1983 and letter dated August 29, 1983.
- 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 July 19, 1983.  
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.

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14. The licensee is authorized to receive, possess, and use sealed sources of Iridium 192 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
- Such possession does not exceed the quantity per source specified in Item 8 by more than 20% for Iridium 192;
  - 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
  - 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.
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 19, 1983 and letter dated August 29, 1983. 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 SEP 13 1983

By Jack C. Wang  
Material Licensing Branch  
Division of Fuel Cycle and Material  
Safety  
Washington, D. C. 20555

DOCKET NO. 71-9036 71-9056

CONTROL NO. 23578

DATE OF DOC. 04/16/84

DATE RCVD. 04/26/84

FCUF \_\_\_\_\_ PDR

FCAF \_\_\_\_\_ LPDR \_\_\_\_\_

WM \_\_\_\_\_ I&E REF.

WMUR \_\_\_\_\_ SAFEGUARDS \_\_\_\_\_

FCTC  OTHER \_\_\_\_\_

DESCRIPTION:

wishes to register  
as a user

04/25/84 INITIAL CEC