

## MATERIALS LICENSE

Amendment No. 13

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		In accordance with application dated August 24, 1987	
1. Alaska Welding Center Radiography Department		3. License number 50-19202-01 is amended in its entirety to read as follows:	
2. 3021 Davis Road Fairbanks, Alaska 99709		4. Expiration date May 31, 1990	
		5. Docket or Reference No. 030-17129	
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. See Condition 10	A. Sealed sources	A. See Condition 10.	
B. Cesium 137	B. Sealed sources (Technical Operations Model 77302)	B. Not to exceed 165 millicuries per source	
9. Authorized use			
A. For use in industrial radiography.			
B. For use in Technical Operations Model 773 Calibrator device for instrument calibrations.			

## 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. Iridium 192	Gamma Industries A-1-A	100 curies	Gamma Industries Gamma Century	Gamma Industries C-10
B. Iridium 192	Gamma Industries GP	100 curies	Gamma Industries Model-1-Pipeliners	NONE
C. Iridium 192	Industrial Nuclear 2	100 curies	Gamma Industries Gamma Century	Industrial Nuclear 50

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MATERIALS LICENSE  
SUPPLEMENTARY SHEETLicense number  
50-19202-01Docket or Reference number  
030-17129

Amendment No. 13

## CONDITIONS

(continued)

Isotope	Manufacturer & Model No. of Source Assemblies	Maximum Activity per Source	Manufacturer & Model No. of Exposure Devices	Manufacturer Model No. of Source Changers
D. Iridium 192	Industrial Nuclear 8	100 curies	Gamma Industries Gamma Century	Industrial Nuclear 50
E. Cesium 137	Gamma Industries VD(HP)	225 millicuries	Gamma Industries Master Minder Model 1 or 2	NONE
F. Cesium 137	Gamma Industries VD(HP)	100 millicuries	Gamma Industries Tattle Tale Model 1	NONE
G. Iridium 192	Gamma Industries A-2-A	100 curies	Gamma Industries Gamma Century SA	Gamma Industries C-10
H. Cobalt 60	Technical Operations A-424-14	100 curies	Technical Operations 680	NONE
I. Iridium 192	Industrial Nuclear Company Model 33	120 curies	Industrial Nuclear Company Model IR-100	NONE
J. Iridium 192	Source Production & Equipment Company Model G-3	200 curies	Source Production and Equipment Co. Model 2-T	Source Production & Equipment Co Model C-1
K. Cobalt 60	Technical Operation Inc. Model A-424-8	100 curies	Technical Operations Inc. Model 500	NONE
L. Iridium 192	Source Production & Equipment Co. Model G-3	100 curies	Gamma Industries Model Gamma Century	Source Production & Equipment Co Model C-1
M. Cobalt 60	Technical Operations Inc. Model A-424-19	70 millicuries	Technical Operations Model 660	Technical Operations Model 650
N. Iridium 192	Technical Operations Inc. Model A-424-9	100 curies	Technical Model 660	Technical Operations Model 650

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

50-19202-01

Docket or Reference number

030-17129

Amendment No. 13

## CONDITIONS

(continued)

Isotope	Manufacturer & Model No. of Source Assemblies	Maximum Activity per Source	Manufacturer & Model No. of Exposure Devices	Manufacturer Model No. of Source Changers
U. Iridium 192	Industrial Nuclear Model 7	100 curies	Technical Operations Model 660	Industrial Nuclear Co. Model 50 or Model 130
P. Iridium 192	Source Production & Equipment Co. Model T-5 & Model T-7	100 curies	Technical Operations Model 660	Source Production & Equipment Co. Model C-1
Q. Cobalt 60	Technical Operations, Inc. Model A424-13	300 curies	Technical Operations Model 676	Not Applicable

11. Licensed material may be used at the licensee's facilities located at 3021 Davis Road; Fairbanks, Alaska and 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.
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".
13. Licensed material shall be used by, or under the supervision and in the physical presence of, Sandy N. Watson or individuals who have completed the training described in the Radiation Safety Program submitted with the letter dated January 9, 1984.
14. 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 the Radiation Safety Program submitted with the letter dated January 9, 1984.
- 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 (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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License number  
50-19202-01

Docket or Reference number  
030-17129

Amendment No. 13

**CONDITIONS**

(continued)

15. 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.
16. 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.
17. 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".
18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Letter dated November 18, 1983
  - B. Letter dated April 16, 1984
  - C. Letter dated January 9, 1984
  - D. Letter dated January 16, 1985
  - E. Application dated August 24, 1987 and attachment dated August 26, 1987

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

original signed by R. D. Thomas

Date August 26, 1987

By

R. D. Thomas, Chief  
Nuclear Materials Safety Section  
Region V