

MATERIALS LICENSE

Amendment No. 02

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 October 15, 1986, 3. License number 37-19640-01 is amended in its entirety to read as follows:	
1. Tri State Inspection & Consultants			
2. 115 Island Avenue McKees Rocks, Pennsylvania 15136		4. Expiration date July 31, 1992	
		5. Docket or Reference No. 030-19014	
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 specified in Condition 10.A.	A. As specified in Condition 10.A.	
B. Cobalt 60	B. Sealed sources specified in Condition 10.B.	B. As specified in Condition 10.B.	
C. Cesium 137	C. Sealed source (Amersham/ Technical-Operations Model 773-02)	C. 165 millicuries	
D. Cesium 137	D. Sealed source (Gamma Industries Model VD-HP)	D. 120 millicuries	
E. Cesium 137	E. Sealed source (Gamma Industries Model VD-HP)	E. 1.2 curies	
9. Authorized use			
A. and B. For use in industrial radiography as specified in Condition 10. and replacement of sources as specified in Condition 11.			
C. For use in Technical Operations Model 773 Calibrator for the calibration of radiation detection equipment.			
D. For use in J. L. Sheppard Model 28-5 calibrator for the calibration of radiation detection equipment.			
E. For use in J. L. Sheppard Model 28-6A calibrator for the calibration of radiation detection equipment.			

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SUPPLEMENTARY SHEET

License number

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Docket or Reference number

030-19014

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CONDITIONS

10. A. Sealed iridium-192 sources and exposure devices authorized for use are as follows:

<u>Manufacturer & Model No. of Exposure devices</u>	<u>Manufacturer & Model No. of Source Assemblies</u>	<u>Maximum Activity per Source (curies)</u>
Amersham/Technical Operations Models 490 and 533	Amersham/Technical Operations Model A424-1	100
	Gamma Industries Model T1T, T1A, and T1G	100
	Gulf Nuclear Model RT14	100
	Source Production and Equipment Company Model T1	100
Amersham/Technical Operations Model 660	Amersham/Technical Operations Model A424-9	100
	Gamma Industries Model T3T	100
	Gulf Nuclear Model RT15	100
	Source Production and Equipment Company Model T5	100
Amersham/Technical Operations Model 920	Amersham/Technical Operations Model 90003	200
Amersham/Technical Operations Model 616	Amersham/Technical Operations Model 58101-8	100
	Gamma Industries Model TP	100
	Gulf Nuclear Model RPL-3T	100
	Source Production and Equipment Company Model T11	100
Gamma Industries Model Century	Amersham/Technical Operations Model 848	100
	Gamma Industries Model A2A, A1A	100
	Gulf Nuclear Model RG13	100
	Source Production and Equipment Company Model G1	100
Gamma Industries Model Pipeliner I	Gamma Industries Models GP or PTL-1	100
	Gulf Nuclear RPL-1-G	100
	Source Productional Equipment Company Model G-23	100
Gamma Industries Model Pipeliner 201	Gamma Industries Model PL-2	200

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CONDITIONS

10. B. Sealed cobalt-60 sources and exposure devices authorized for use are as follows:

<u>Manufacturer & Model No. of Exposure devices</u>	<u>Manufacturer & Model No. of Source Assemblies</u>	<u>Maximum Activity per Source (curies)</u>
Gamma Industries Model Gammatron 100A	Gamma Industries Model A-8-A	100
Gamma Industries Model Gammatron 20A	Gamma Industries Model A7A	20

11. A. The following source changers may be used with the listed iridium-192 sources:

<u>Manufacturer & Model No. of Source changers</u>	<u>Manufacturer & Model No. of Source Assemblies</u>
Amersham/Technical Operations Models 650 or AI-500 SU	Amersham/Technical Operations Models A424-1, 58101-8, 90003, 848, and 806 Gamma Industries Models T1T, TP, T3T, A2A, and B8A/T Gulf Nuclear Models RT14, RPL-3T, RT15, RG13, RGSA13, and RAG17 Source Production and Equipment Company Models T1, T11, T5, G1, G3, and B16
Gamma Industries Model C10	Amersham/Technical Operations Models A424-1, 58101-8, 90003, 848, and 866 Gamma Industries Models T1T, TP, T3T, A2A, and B8A/T Gulf Nuclear Models RT14, RPL-3T, RT15, RG13, RGSA13, and RAG17 Source Production and Equipment Company Models T1, T11, T5, G1, G3, and B16
Amersham/Technical Operations Model 850	Amersham/Technical Operations Model 90003

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CONDITIONS

11. B. The following source changers may be used with the listed cobalt-60 sources:

Manufacturer &
Model No. of
Source changers

Manufacturer &
Model No. of
Source Assemblies

Gamma Industries
Model C8

Automation Industries Models 151/51 and 52
Gamma Industries Models 20A, 100A, and 200A

12. Licensed material may be used at 115 Island Avenue, McKees Rocks, Pennsylvania 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.
13. Licensed material shall be used by, or under the supervision and in the physical presence of, Michael H. Stiger or individuals who have been trained as specified in application dated October 15, 1986. The licensee shall maintain records of individuals designated as users.
14. A. Notwithstanding the periodic leak test required by Section 34.25(b) of 10 CFR Part 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 before use or transfer to another person.
- B. Sealed sources authorized for a use other than radiography shall be tested as radiography sources in accordance with Section 34.25 of 10 CFR Part 34.
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 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 this 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 of 10 CFR Part 34.
16. Pursuant to 10 CFR 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 in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".

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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. Application dated October 15, 1986
B. Letter dated June 30, 1987

For the U.S. Nuclear Regulatory Commission

Original Signed By:

Jenny M. Johansen

Date

12 AUG 1987

By

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406