

# MATERIALS LICENSE

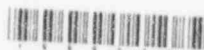
Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license 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 letter dated March 11, 1997	
1. Geo-Ray Oilfield Inspections Limited		3. License number 54-27545-01 is amended in its entirety to read as follows:	
2. 4040 39139 Highway 2A Red Deer County Alberta, Canada T4S 2A8		4. Expiration date October 31, 2001	
		5. Docket or Reference No 030-34249	
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. Cesium-137	A. Sealed sources (3M Model 4F6S or 4F6H, Gulf Nuclear Model CSV and Amersham Model CDC.711M)	A. Not to exceed 1.5 curies per source	
9. Authorized use			
A. For use in NDT Systems, Inc. Model 13640 Tube Wall Caliper for measuring pipe wall thickness.			

## CONDITIONS

10. Licensed material may be used at the licensee's facilities located at 4250 Six Mile Road, Casper, Wyoming, 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.
11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in letter dated April 1, 1997, and have been approved in writing by the Radiation Safety Officer.
- B. The Radiation Safety Officer for this license is Gary Lassu.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

2

OF

4

PAGES

54-27545-01

Docket or Reference Number

030-34249

Amendment No. 01

12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. A. Sealed sources or detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- D. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

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54-27545-01

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Amendment No. 01

- F. The licensee is authorized to collect leak test samples for analysis by Stuart Hunt and Associates, Occupational and Radiation Safety Services. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
  15. Each portable gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.
  16. Installation, initial radiation survey, relocation, and removal from service, of devices containing sealed sources shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services. Installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
  17. Any cleaning, maintenance, or repair of the gauges that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
  18. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State.
  19. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
  20. The licensee shall assure that the shutter mechanism is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new gauge is obtained to incorporate the device manufacturer's recommendations.
  21. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

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22. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
23. 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, 1996
  - B. Document received by facsimile on October 30, 1996
  - C. Letter dated March 11, 1997
  - D. Facsimile of letter dated April 1, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 10 1997

Original Signed By  
By Billie Gruszynski

Billie Gruszynski (Ms.)  
Nuclear Materials Licensing Branch  
Region IV  
Arlington, Texas 76011





UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

April 10, 1997

Georay Oilfield Inspections, LTD  
ATTN: Gary Lassu  
Radiation Safety Officer  
4040-39139 Highway 2A  
Red Deer County  
Alberta, Canada T4S 2A8

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 54-17545-01, Amendment 01. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at (817)860-8120.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
  - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
  - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
  - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
  - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
  - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the

"General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.

Thank you for your cooperation.

Sincerely,

Original Signed By  
Billie Gruszynski

Billie Gruszynski (Ms.)  
Nuclear Materials Licensing Branch

Docket: 030-34249  
License: 54-27545-01  
Control: 466345

Enclosures: As stated

APR 10 1997

Georay Oilfield Inspections, LTD

-4-

DOCUMENT NAME: P:\GEORAY.CVR

To receive a copy of this document, indicate in the box "C" - Copy without attachment/enclosure "E" - Copy with attachment/enclosure "N" - No Copy

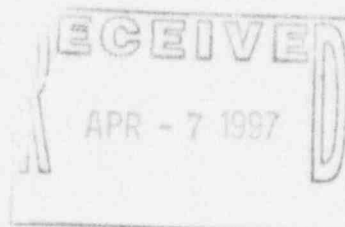
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BGruszynski	<i>Bg</i>						
4/10/97							

OFFICIAL RECORD COPY



m/s # 16

T4



APRIL 1 1997

BILLIE GRUSZYNSKI  
NUCLEAR MATERIALS LICENSING BRANCH  
REGION IV  
ARLINGTON, TEXAS 76011

RE- AMENDMENT LICENSE NUMBER 54-27545-01

THESE ARE THE AMENDMENTS I WOULD LIKE IN OUR LICENSE.

10. LICENSED MATERIAL SHALL BE USED AT THE LICENSEE'S FACILITIES  
LOCATED IN CASPER WYOMING, AND TEMPORARY JOB SITES IN ALL  
STATES GOVERNED BY THE NRC.

11. A. LICENSED MATERIAL SHALL BE USED BY GARY LASSU AND  
ANYONE APPOINTED BY GARY LASSU WHO HAS RECEIVED PROPER  
TRAINING IN THE CARE AND USE OF THE NUCLEAR GAUGE, THE TRAINING  
WILL BE DONE BY I.P.I.A.

THE RADIOACTIVE SOURCE WILL NO LONGER BE STORED IN MILES CITY  
MONTANA. IT WILL BE STORED IN CASPER WYOMING AT 4250 6 MILE ROAD  
82604. PLEASE SEE ATTACHED DRAWING.

AN ANNUAL AUDIT WILL BE PERFORMED BY THE R.S.O. THE DOCUMENTS  
FROM THE AUDIT WILL BE SENT TO SENIOR MANAGEMENT FOR REVIEW,  
ANY DEFICIENCIES NOTED WILL ADDRESSED AND PROMPT CORRECTIVE  
ACTION WILL BE TAKEN. THE AUDITS WILL BE PERFORMED ONCE A YEAR  
IF ANY DEFICIENCIES ARE NOTED A DOCUMENTED FOLLOW UP WILL BE  
PERFORMED TO ASSURE THAT CORRECTIVE ACTIONS WERE TAKEN.

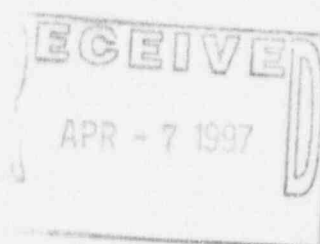
THE R.S.O. AS WELL AS MANAGEMENT IS COMMITTED TO PROVIDING  
REFRESHER COURSES ONCE EACH YEAR, THESE WILL INCLUDE DRY RUNS  
OF OUR EMERGENCY PROCEDURES, OPERATING PROCEDURES, DOT,  
REQUIREMENTS, ANY CHANGES IN APPLICABLE REGULATIONS OR

466345

LICENSE CONDITIONS, AND A REVIEW OF ANY DEFICIENCIES IF ANY  
FOUND IN THE LAST AUDIT.

GEORAY OILFIELD INSPECTION  
RADIATION SAFETY OFFICER

*Gary Lassu*  
GARY LASSU



466345

↑  
NORTH

LOCKED  
GATE

5 ACRES  
FENCED.

LOCKED  
GATE

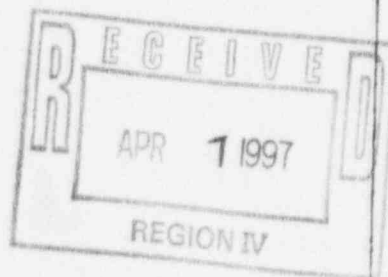
GEOGRAPHY  
INSR  
UNIT

4250 6 MILE ROAD  
CASPER WYOMING  
82604

10,600 sq ft BUILDINGS

LOCKED  
GATE

THE AREA  
SURROUNDING  
THIS PROPERTY  
IS ALL OPEN  
FIELD.

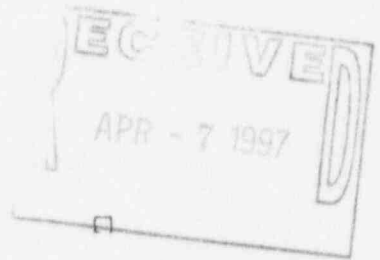


6 MILE ROAD

466345

FAX

## COVER SHEET



FROM: (Please check one)

GEORGE

☐

GARY M.

☐

GERRY

☐

GARV

☒

JOE

☐

DARYL

☐

WAYNE

☐

TINA

☐☐Date: APRIL 7 - 97

No. of Pages (including cover sheet): \_\_\_\_\_

Company: NUCLEAR MATERIALS LICENSING BRANCHAttention: BILLIE GRUZINSKIFax Number: 817-860-8263

NOTE: IF TRANSMISSION IS INCOMPLETE, PLEASE CALL (403) 343-8100

Message

Please ~~review~~ review ~~and~~ and call  
me with any questions.

Thank you  
Gary Lamm

## CONFIDENTIALITY NOTICE

This facsimile transmission is intended only for the use of the individual or entity to which it is addressed and may contain information which is legally privileged. If you are not the intended recipient, you are hereby notified that any disclosure, distribution or copying of the transmitted material is strictly prohibited by law. If you have received this telecopy in error, please notify us by telephone to arrange for return of the original transmission.

Facsimile to:



GEO-RAY OILFIELD INSPECTIONS LTD.

4040-39139 Hwy. 2A, Red Deer County, Alberta T4S 2A8  
 Phone (403) 343-8100 Fax (403) 347-9686



466345

CONVERSATION RECORD		TIME	DATE												
			3/31/97												
TYPE	<input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE		ROUTING <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">NAME/SYMBOL</th> <th style="width: 20%;">INT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	NAME/SYMBOL	INT										
NAME/SYMBOL	INT														
Location of Visit/Conference:	<input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING														
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, dept., bureau, etc.)	TELEPHONE NO.													
<i>Harry Brown, RSO</i>	<i>Deputy Chief Inspections, LTD</i>	<i>(403) (Canada) 343-8100</i>													
SUBJECT															
<i>Amendment to Lic. 54-27545-01</i>															

SUMMARY

- 4/1/97  
ctv
- ✓ 1. Will you be using material at both Miles City, MT & in Casper, WY? *(NO)*
  - ✓ 2. you will need to give us a street address and a drawing of the Casper location showing where the licensed material is stored and/or used?
  - ✓ 3. Since you did not describe training for other users, you will need to commit to a particular training program for any other users in the future.  
[I.P.I.A.]

ACTION REQUIRED

*await reply*

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
	<i>Billie Gussynski</i>	<i>4/1/97</i>
ACTION TAKEN		

SIGNATURE	TITLE	DATE



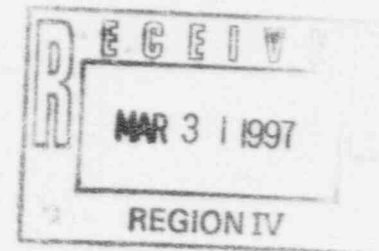
## BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS

Program Code: 03120  
Status Code: 0  
Fee Category: 3P  
Exp. Date: 20011031  
Fee Comments:  
Decom Fin Assur Req'd: N

1997 MAR 25 PM 1:31



## LICENSE FEE TRANSMITTAL

A. REGION IV

## 1. APPLICATION ATTACHED

Applicant/Licensee: GEORAY OILFIELD INSPECTIONS, LTD  
Received Date: 970324  
Docket No.: 3034249  
Control No.: 466345  
License No.: 54-27545-01  
Action Type: Amendment

## 2. FEE ATTACHED

Amount: \$300.00  
Check No.: 1022

## 3. COMMENTS

Signed  
Date

Billie Guszczynski  
3/24/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered 1-1)1. Fee Category and Amount: 3P \$3002. Correct Fee Paid. ☒ Application may be processed for:

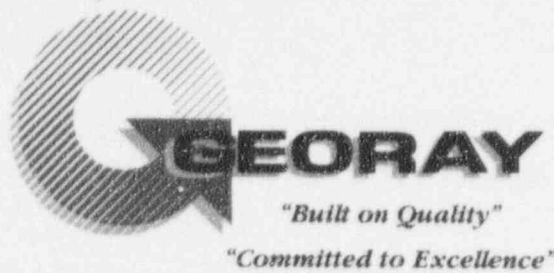
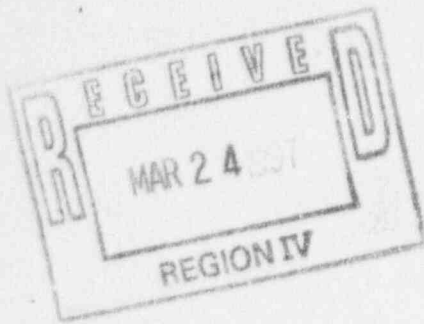
Amendment             
Renewal             
License           

## 3. OTHER

Signed  
Date

Rita Smolinski  
3/26/97

Log	<u>Mar 3 IV</u>
Remitter	
Check No.	<u>1022</u>
Amount	<u>\$300</u>
Fee Category	<u>3P</u>
Type of Fee	<u>amd</u>
Date Check Rec'd.	
Date Completed	<u>3/26/97</u>
By:	<u>RSM</u>



MARCH 11 1997

CHRISTI HERNANDEZ  
NUCLEAR MATERIALS LICENSING BRANCH  
REGION IV  
ARLINGTON, TEXAS 76011

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MUST MEET WITH NRC. APPROVAL.

GEORAY OILFIELD INSPECTION  
RADIATION SAFETY OFFICER

*Gary Lassu*  
GARY LASSU



**GEO-RAY OILFIELD INSPECTIONS LTD.**  
4040-39139 Hwy. 2A, Red Deer County, Alberta T4S 2A8  
Phone (403) 343-8100 Fax (403) 347-9686



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