

MATERIALS LICENSE

CORRECTED COPY

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, 36, 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		
1. Lakehead Pipe Line Company, Inc.	3. License Number	22-26732-01
2. 21 West Superior Street Duluth, MN 55802-2067	4. Expiration Date	July 31, 2001
	5. Docket or Reference No.	030-34160/48-13457-01
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 source (Berthold P-2623-100)	A. Twelve sources not to exceed 350 millicuries each
B. Cesium-137	B. Sealed source (Berthold P-2645-100-000)	B. Five sources not to exceed 2000 millicuries each
C. Americium-241	C. Sealed source (Amersham/Searle Model AMC 17)	C. One source not to exceed 550 millicuries
D. Cesium-137	D. Sealed source (Berthold P-2645- 100, or Amersham Model CDC.93)	D. Two sources not to exceed 1000 millicuries each

9. Authorized Use:

- A. or B. To be used in Berthold Model No. LB 7400 D/L density/level gauge.
- C. To be used in Yokogawa Model PS6 Sulfur-In-Oil Analyzer to measure the percent of sulfur by weight in crude oil.
- D. To be use in Berthold Model LB 7400 D/F series density gauge for measurement of density of material flow through a pipeline.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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CONDITIONS

10. A. Licensed materials in item 6.A. and 6.B. shall be used only at the licensee's facilities located as follows:

Saxon Station, Saxon, Wisconsin
Iron River Station, Iron River, Michigan
Gould City Station, Gould City, Michigan
North Straits, North Straits of Mackinac, MI
Lewiston Station, Lewiston, Michigan
Bay City Station, Bay City, Michigan

Plummer Station, Plummer, MN
Clearbrook Station, Clearbrook, MN
Deer River Station, Deer River, MN
Superior Terminal, Superior, WI

- B. Licensed material listed in items 6.C. and 6.D. shall be used only at the licensee's facilities located as follows:

2800 East 21st Street
Superior, WI

Station Site
Rapid River, MI

Mainline Densitometer Site
Perkins, MI

11. A. Licensed material shall be used by, or under the supervision of, Robert F. Pollock, Mike Burnis, Kurt Castle, Dennis DeYoung, Lewis Gotham, Gary Haubrich, Harvey Miles, Joe Shafer, Jerry Snobeck, Thomas Smith, Rich Szeplakay, John Sobojinski or Joel A. Korhonen.
- B. Licensed material listed in item 6.C. may also be used by, or under the supervision of, Dave P. Friborg.
- C. Radiation Safety Officer: Robert F. Pollock.
12. A. Sealed sources and 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. 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 or detector cell received from another person shall not be put into use until tested.
- C. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or

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- (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.
- D. 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 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 III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.
- E. The licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
13. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
14. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by John Sobojinski or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and 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.
15. 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.

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16. 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.
17. 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 NRC.
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 U.S. 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. Letters dated August 27, 1993, October 26, 1993 and June 30, 1994; and
 - B. Application dated January 4, 1995 with attachments.
 - C. Letter dated July 29, 1996 with attachments.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 10/30/96

By James Mulhoney
Materials Licensing Branch, Region III

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NOV 01 1996

Eric A. Williams
Safety & Compliance Coordinator
Lakehead Pipe Line Company, Inc.
21 West Superior Street
Duluth, MN 55802-2067

Dear Mr. Williams:

It has come to our attention that License Number 22-26732-01 issued on October 1, 1996 contained an error.

Enclosed is a corrected copy reflecting item 7.D., 8.D. and conditions 11.A. and 11.B. noted to be in error. We apologize for any inconvenience this may have caused you.

Sincerely,

Original Signed By
James R. Mullauer, M.H.S.
Health Physicist
Nuclear Materials Licensing Branch

License No.: 22-26732-01
Docket No.: 030-34160

Enclosure: Corrected Copy of
License No. 22-26732-01

DOCUMENT NAME: M:\03034160.CC6

To receive a copy of this document, indicate in the box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

OFFICE	DNMS/RH								
NAME	JMULLAUER:jaw								
DATE	10/1/96								

OFFICIAL RECORD COPY

NAME	DATE	CODE			
DATE	08/ /96	08/ /96			

OFFICIAL RECORD COPY

CONVERSATION RECORD

TIME DATE
11 a.m. 10/29/96

☐ VISIT ☐ CONFERENCE ☒ TELEPHONE

☐ INCOMING
☒ OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT ORGANIZATION (OFFICE, DEPT. ETC.) TELEPHONE NO.
Eric Williams, Safety & Compliance Coordinator
Lakehead Pipe Line Company, Inc.
219/922/3133

SUBJECT
letter dated 10/15/96 requesting correction to license

SUMMARY
I spoke to Eric to clarify the following matters:

1. Item 7.D. should only list the P-2645-100 and CDC.93 and 8.D. should only authorize 2 sources, not three.
2. I suggested to Eric that instead of adding Mike Burnie to condition 11.B. we should just list all the users for all material since these are all material is in fixed gauges. Eric agreed with the exception of Dave Friborg who only uses the americium-241 gauge.

This action is certified by _____

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION
James R. Mullauer

Jim Mullauer 10/29/96
SIGNATURE DATE

ACTION TAKEN

SIGNATURE

TITLE

DATE

Lakehead Pipe Line Company, Inc.

Mark S. Sitak
Chicago District Manager

P.O. Box 6
1500 West Main Street
Griffith, Indiana 46319
Telephone (219) 922-3133
Fax (219) 922-3128



October 15, 1996

LGA60087

Chief John Madera
Nuclear Materials Licensing
United States Nuclear Regulatory Commission
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Madera:

Upon reviewing our new license #22-26732-01 issued on September 20, 1996, I observed an error. The error is in section 6.D. which identifies Lakehead Pipe Line Company as having three sources not to exceed 1000 millicuries each. It should correctly read two sources not to exceed 1000 millicuries each. This may remove Amersham Model CDC.93. I have enclosed a copy of the License return form for an accurate source description to section 6.D.

Mike Burnis, an authorized user listed in 11.A., will also be responsible for the Rapid River and Perkins, MI sources. Therefore, his name should be included in section 11.B.

Sincerely,

Eric A. Williams
Safety & Compliance Coordinator

VSW

Enclosure: License Return Form

RECEIVED
OCT 21 1996
REGION III

Pm: 10-16-96

An Affiliate of IPL Energy (USA) Inc.

OCT 21 1996

Berthold systems.

Return To:
TeleFax # 412 378-1926
ATTN: Mary Dedola

LICENSE RETURN FORM

Berthold File Reference: 96-321

Customer: Lakehead Pipeline

Purchase Order #: 155-48-3304-96

The following sources will be shipped in it's designated shielding.

Device #1: Quantity: 2

- a) Device name: Clamp-On Density
- b) Device Model #: LB 7400 D/F (series)
- c) NRC Registration #: NR-112-D-102-B
- d) Isotope Type: Cs-137 [X] Point Source
- e) Up To Maximum Activity: 1000 mCi
- f) Source Drawing #: P-2645-100.000 or CDC.93
- g) Leak test frequency: 3 years

SHUTTER TESTS ON EACH SHIELDING REQUIRED EVERY 6 MONTHS TO ENSURE PROPER OPERATION.

NOTE: For Belt-Weigher, Micro-Moist and Ash Analyzer devices, access to the primary beam will be prevented by a protective barrier (fence) or by conditions at a particular installation which cause access to the beam highly unlikely.

THIS IS YOUR RESPONSIBILITY; BSI is prepared to offer guidance.

The following License selection must be received by Berthold Systems prior to shipment. PLEASE CHOOSE YOUR OPTION:

Customer request that the gauge(s) be shipped and installed under the following license:

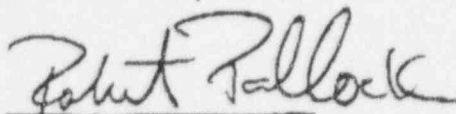
- 1) The General License referred to in Section 31.5 of U.S. Nuclear Regulatory Commission Rules, or The Equivalent Regulations of your Agreement
State _____

OR

- 2) Your Specific License _____ No. 22-26732-01

NOTE: Please attach a copy of your Specific License showing the Berthold device.

Signature of Radiation Safety Officer/Authorized Person:



Date:

9-27-96