

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

See attached instructions for details.

a. NEW LICENSE

b. AMENDMENT TO:
LICENSE NUMBERc. RENEWAL OF:
LICENSE NUMBER

X 49-13587-01

2. APPLICANT'S NAME (Institution, firm, person, etc.)

MARATHON PIPE LINE CO.

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(419) 422-2121

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

IRVIN D. JOHNSON

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(303) 794-2601

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)

539 South Main Street
Findlay, OH 458405. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code)Platte Pipe Line Co.
Pumping Station, Box 364
Guernsey, WY 82214

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL

(See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME

TITLE

a. Glen Putman

Technician

b.

c.

7. RADIATION PROTECTION OFFICER

Irvin D. Johnson

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source) C	MAXIMUM NUMBER OF MILLCURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	IRON 55	IRON	Amersham/Searle IEC-123	10 millicuries
(2)				
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL

E

(1) For determination of the percentage sulfur in crude oil samples.

(2)

(3)

(4)

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9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	The source is completely.	Marathon Oil Company	10
XX	contained within a shielded enclosure.		
XX	No radiation is externally measurable during normal instrument use or		
XX	storage.		

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	See attachment.					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY	<input checked="" type="checkbox"/> b. CALIBRATED BY APPLICANT <i>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</i> See attachment.
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12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____	N/A	<input type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): N/A

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- ☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.
☐ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

See attachment.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

See attachment.

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

WARNING.—18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

a. LICENSE FEE REQUIRED
(See Section 170.31, 10 CFR 170)

b. CERTIFYING OFFICIAL (Signature)

c. NAME (Type or print)

Carl D. Clay

(1) LICENSE FEE CATEGORY:

All other

d. TITLE

Manager

(2) LICENSE FEE ENCLOSED: \$110.00

e. DATE

January 21, 1980

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10. Radiation Detection Instruments

Detector is integral with the apparatus. This is a Geiger Mueller tube with a timer-scaler capable of counting to 500,000 cpm.

11. Method, Frequency, and Standards Used in Calibrating Instruments Listed Above

Calibration for the instrument is part of the operating procedure and involves the use of a standard solution in the sample cell or a standard aluminum absorber. This is done at a minimum weekly when the instrument is in service.

13. Facilities and Equipment

Equipment is housed in the pumping station under the direct control of Mr. Glen Putman. A small slot (0.5" x 1.6") in the front of the instrument permits insertion of the sample cell. The radiation from the equipment is at background level.

14. Waste Disposal

No waste will be involved. Upon replacement of the source, the old source will be transferred to a license permitted to receive the source.

15. Radiation Protection Program

Wipe sample will be collected by the user at an interval not to exceed 6 months. These will be forwarded to Marathon Oil Company's Denver Research Center for counting and issuance of leak test certification. Current USAEO regulation will be followed in the case that any leaks are found.

Any maintenance required on the apparatus will be performed at Marathon Oil Company's Denver Research Center, 7400 So. Broadway, Littleton, Colorado 80122. Ref: AEC License No. 05-03753-01, Amendment No. 13, and Colorado License No. 05-03753-01, Amendment No. 13.

16. Training of Each Individual Named in Items 6 and 7.

<u>Type of Training</u>	<u>Where Trained</u>	<u>Duration of Training</u>	<u>Date of Training</u>
<u>Glen Putman</u>			
(a)	Marathon Oil Company Denver Research Center	1 Week	8/1/72
(b)	Marathon Oil Company Denver Research Center	1 Week	8/1/72
(c)	Marathon Oil Company Denver Research Center	1 Week	8/1/72
(d)	Marathon Oil Company Denver Research Center	1 Week	8/1/72
<u>I. D. Johnson</u>			
(a)	U.S. Navy Uranium Instruments Marathon Oil Company	1 Month 2 Years 12 Years	7/1/52 4/1/55 (on the job) 9/5/69 (on the job)
(b)	U.S. Navy Uranium Instruments Marathon Oil Company	1 Month 2 Years 12 Years	7/1/52 4/1/55 (on the job) 9/5/69 (on the job)
(c)	U.S. Navy Uranium Instruments Marathon Oil Company	1 Month 2 Years 10 Years	7/1/52 4/1/55 (on the job) 9/5/69 (on the job)
(d)	U.S. Navy Uranium Instruments Marathon Oil Company	1 Month 2 Years 12 Years	7/1/52 4/1/55 (on the job) 9/5/65 (on the job)

17. Experience with Radiation

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Where Experience was Gained</u>	<u>Duration of Experience</u>	<u>Type of Use</u>
<u>Glen Putman</u>				
Fe 55	10 Mci	Marathon Oil Co.	7 Years	Sealed source for instrumentation
<u>I. D. Johnson</u>				
H-3	10-30 Ci	Marathon Oil Co.	4 Years	Waterflood tracer studies
Fe 55	10 Mci	Marathon Oil Co.	9 Years	Sealed source for instrumentation
Ba 133	1-10	Marathon Oil Co.	7 Years	Sealed source for instrumentation
Misc. Natural Isotopes	Mci/ranges	Uranium Instruments, Cryogenic Res.	11 Years	Instrument design