





Martin Todd Farish

CSP P.O. Box 196105, NSK-45 Anchorage, AK 99519-6105 (907) 659-7646 (phone) N1169@conocophillips.com

Certified Mail Return Receipt Requested 7010 1060 0000 5094 0955

March 12, 2012

US NRC Region IV Attn: Carol Hill, Licensing Assistant 1600 East Lamar Boulevard Arlington, TX 76011-4511

ConocoPhillips

Dear Ms. Hill,

Attached please find an application to amend License #50-27783-01 to include the addition of a Tracerco Profiler fixed gauge at ConocoPhillips Alaska's Alpine Oilfield.

The fixed gauge contains an Am-241 source with a maximum activity of 1.29 Ci. This does not exceed either the maximum activity per source or maximum activity per device as specified on License #50-27783-01.

If you have any questions, or need additional information, please give me a call at (907) 659-7646.

Sincerely,

Martin Todd Farish, CSP

Attachment

Safety/Radiation/6.13/Alpine



APPLICATION FOR MATERIALS LICENSE AMENDMENT

March 12, 2012

US NRC Region IV ATTN: Carol Hill, Licensing Assistant 1600 East Lamar Boulevard Arlington, TX 76011-4511

1. This is an application for an amendment to License # 50-27783-01:

Addition of a new fixed gauge

2. Name and mailing address of applicant:

ConocoPhillips Alaska, Inc. 700 G Street P. O. Box 100360 NSK 45 Attention: Todd Farish

Attention: Todd Farish Anchorage, AK 99510-0360

Address where licensed material will be used or possessed:

ConocoPhillips Alaska, Inc. Alpine Oil Field Alpine, AK

4. Name of person to be contacted about this license:

Martin Todd Farish

Telephone Number:

907.659.7646

5. Radioactive Materials: 43 sources at 30 mCi each

Isotope	Manufacturer & Model No. of	Maximum	Manufacturer & Model
	Source Assemblies	Activity	No. of Gauge
Am-241	Isotope Products Laboratory Model AM1.G10	1.29 Ci	Tracerco Profiler PRI 146 (ZP 1200-T)

Purpose for which licensed material will be used:

Install a fixed gauge to delineate levels of crude oil, gas, and water in the Alpine primary separator by mapping the densities of each phase.

7. Individual responsibility for radiation safety program and their training experience:

Martin Todd Farish, CSP Completed Radiation Safety Officer training.



APPLICATION FOR MATERIALS LICENSE AMENDMENT

8. Training for individuals working in or frequenting restricted area:

Initial training for the safe operation and required periodic maintenance (to include leak testing of the source) will be performed by the installer/distributor, Tracerco. This training will be given to the authorized users of the unit.

Personnel working in the vicinity of the Alpine Primary Separator will be instructed in basic hazards of radiation, the location and function of the device, safety precautions, and procedures in the event of an emergency. Training will be tailored to be commensurate with the individual's assignment in the vicinity of the fixed gauge. Additional training will be provided to both authorized users and other personnel that will routinely be working in the vicinity of the Alpine Tracerco Profiler. This training will be computer based with a subject matter consisting of general radiation safety, safety precautions, ConocoPhillips commitment to ALARA, and emergency procedures.

Initial documentation from the manufacturer and experience with an identical installation indicate that under routine conditions of handling, storage, and use of this device, it is unlikely that personnel will receive a dose in excess of established regulatory exposure limits.

9. Facility and Equipment:

The location of the fixed gauge is compatible with the conditions of normal use and consideration of use as stated on Supplier Operation & Maintenance Manual for Tracerco Profiler.

Radiological Safety:

It is our normal practice to supply all equipment as specified except the radioactive sources. These will normally be shipped to site prior to commissioning by Tracerco Services engineers. The sources will be shipped in a suitable type "A" container to ensure that the sources are safely packed and shielded for transport. When received on site, the sources will be kept in a secured area until the arrival of Tracerco Services commissioning engineers, who will install the source array into its dip pipe. Prior to arrival of the sources, the site registration will be amended to include the additional sources. Tracerco Services Radiation Protection Advisor (RPA) may be contacted for advice with regard to licenses, registration, etc.

The Profiler contains Americium-241 sources. The sources emit a low energy (60keV) gamma ray that is easily shielded. When the profiler is operational, there will be no measurable dose rate outside of the vessel from the sources, even when the vessel is empty. The sources are all contained within a single arming rod, which is locked into place and must not be removed by unauthorized persons. For vessel entry during shutdown operations, the arming rod can be locked shut. This is achieved by pushing down on the lever at the neck of the profiler and inserting a padlock into the hole provided. This action withdraws the sources behind a shield and reduces the dose rate to less than 7.5 microsieverts/hr (μ Sv) at 10 cm. Because it is not possible to receive an effective body dose > 7.5 microsieiverts/hr (μ Sv), a controlled area is not required. During operational periods, the lever will not be locked in the open position but may be wired or pinned to prevent accidental movement.

10. Radiation Safety Program:

This additional device will be added to the existing operating and emergency procedures for this facility.











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US NRC Region IV

Attn: Carol Hill, Licensing Assistant

Arlington, TX 76011-4511

1600 East Lamar Blvd



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NRC FORM 532
(1-2012)

U. S. NUCLEAR REGULATORY COMMISSION



DATE

03/20/2	012
IAME AND ADDRESS OF APPLICANT AND/OR LICENSEE	LICENSE NUMBER
ConocoPhillips Alaska, Inc.	50-27783-01
ATTN: Martin Todd Farish	MAIL CONTROL NUMBER
Radiation Safety Officer P.O. Box 196105 (NSK-45)	577162
700 G Street	LICENSING AND/OR TECHNICAL REVIEWER
Anchorage, Alaska 99519-6105	ch
This is to acknowledge the receipt of your:	
✓ LETTER and/or APPLICATION	DATED: 03/12/2012
The initial processing, which included an administrative	review, has been performed.
✓ AMENDMENT TERMINATION N	EW LICENSE RENEWAL
There were no administrative omissions identified dur	ing our initial review.
This is to acknowledge receipt of your application for above. Your application is deemed timely filed, and acfinal action has been taken by this office.	renewal of the material(s) license identified coordingly, the license will not expire until
Your application for a new NRC license did not include Please fill out NRC Form 531, located at the following	
http://www.nrc.gov/reading-rm/doc-	collections/forms/nrc531.pdf
Send the completed NRC Form 531, by facsimile, to t	he following number: (301) 415-5387
A copy of your action has been emailed to our License our Headquarters office in Rockville, MD. You will be involved.	
Your application has been assigned the above listed I calling to inquire about this action, please refer to this been forwarded to a technical reviewer. Please note to normally completed within 180 days for a renewal application and identify additional omissions or require additional concerning the processing of your application, our content.	control number. Your application has hat the technical review, which is lication (90 days for all other requests), information. If you have any questions
Region IV U. S. Nuclear Regulatory Commis DNMS/NMSB - B	sion

1600 E. Lamar Boulevard Arlington, TX 76011-4511 (817) 200-1103 or (817) 200-1140

NRC FORM 532 (1-2012)

Imailed 3/20/12

BETWEEN:

Accounts Receivable/Payable and Regional Licensing Branches

[FOR ARPB USE] INFORMATION FROM LTS

Program Code: 03120

Status Code: Pending Amendment

Fee Category: 3M 3P Exp. Date: 08/31/2014

Fee Comments:

Decom Fin Assur Reqd: N

License Fee W	orksheet - L	icense Fee Transmittal
A. REGION	** *** *******************************	The second secon
1. APPLICATION ATTA	CHED	
Applicant/Licensee: Received Date: Docket Number: Mail Control Number: License Number: Action Type:	CONOCO PHII 03/20/2012 3036627 577162 50-27783-01 Amendment	LLIPS ALASKA, INC.
2. FEE ATTACHED	1	
Amount:		
Check No.:		
3. COMMENTS	Signed:	Carl & Hice
	Date:	3/20/12
LICENSE FEE MANAC 1. Fee Category and Ar		(Check when milestone 03 is entered / /
2. Correct Fee Paid. Appl	lication may be pro	ocessed for:
Amendment:		=
Renewal:		_
License:		_
3. OTHER		
	Signed:	
	Date:	