



Byron R. Lowe  
Refinery Manager

**Amoco Oil Company**

Whiting Refinery  
2815 Indianapolis Boulevard  
Whiting, Indiana 46394  
219-473-7700

RECEIVED

April 1, 1985

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Mrs. Patricia Vacherlon  
United States Nuclear Regulatory Commission  
Division of Fuel Cycle and Material Safety  
Radioisotopes Licensing Branch  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

U.S. N.R.C.  
LIC. FEE MGMT. BRANCH

Dear Mrs. Vacherlon:

License No. 13-00155-12, Amendment No. 38

We wish to amend our license No. 13-00155-12, Amendment No. 38 which has an expiration date of June 30, 1988 as follows:

1. Sub Item No. 12

We wish to name Kenneth J. Vavrek as Alternate Radiation Protection Officer for license No. 13-00155-12. A summary of Mr. Vavrek's education, training and experience is attached.

2. Sub Item No. 13

We are presently performing leak tests on sealed radiation sources by the procedures outlined in Industrial Hygiene 62-1, "Procedures for Leak Testing of Sealed Radiation Sources - Revised August 1972", as enclosed in our application for renewal of license dated March 21, 1983. We request that the phrase "or to an approved leak test service" be added to the end of the first paragraph of Section C (Analysis of Leak Test Samples) of Industrial Hygiene 62-1. A revised Section C containing this addition is attached.

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|---------------------|------------|
| Applicant           | APR 1 1985 |
| Check No.           | 3975840    |
| Amount and Category | 33903.00   |
| Type of Fee         | 3 Paid     |
| Date Check Rec'd    | 4/12/85    |
| Received by         | 01/3/85    |

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3. Sub Item No. 14

Mr. Kenneth J. Vavrek recently completed an Installation and Nuclear Radiation Safety Course conducted by Kay Ray, Inc. (certificate attached). In addition to Messrs. A. F. Gruszkiewicz and M. M. Shendrick, we would like to amend this sub item to allow installation, relocation, initial radiation survey and removal of the devices specified in Sub Items 9A through 9G and 9I under the direct supervision of Mr. K. J. Vavrek.

A check in the amount of \$40.00 is attached to cover the fee for amending this license.

Sincerely yours,



B. R. Lowe

Attachments

## SECTION C

### ANALYSIS OF LEAK TEST SAMPLES

After gross monitoring of leak test samples as outlined under "Preliminary Monitoring, Packaging, Labelling, and Emergency Procedures" those samples which are found to be acceptable for mailing of shipping by such procedures are to be sent for analysis to Industrial Hygiene Laboratory, Environmental Health Services Division of Medical and Health Services Department, Standard Oil Company (Indiana), Amoco Research Center, P. O. Box 400, Naperville, Illinois (60566), Attn: Mr. R. L. Stoffer, Industrial Hygiene Chemist, or to an approved leak test service.

Analysis of these samples by Environmental Health Services Division of Medical and Health Services Department, Standard Oil Company (Indiana), 910 South Michigan Avenue, Chicago, Illinois 60605, will be done using the following instrument or its equivalent: a Nuclear-Chicago portable alpha, beta, gamma Survey Meter Model 2612P equipped with a P-16 probe and a D-35 end window detector. The instrument used will employ a Geiger-Muller end window tube of one-inch diameter and a window thickness of less than 2 mg/cm<sup>2</sup>. This instrument will be calibrated periodically (frequency depending upon use) using a 24.93 milligram U.S. Bureau of Standards certified radium source and immediately before being used for monitoring these leak test samples with a 500 dps Cesium 137 source (approximately 0.01 microcurie). The monitoring instrument will have initially been calibrated using a 500 dps Cobalt 60 source (approximately 0.01 microcurie) and a 500 dps Cesium 137 source. These low level calibration sources will be obtained from the U.S. Nuclear Corporation, Burbank, California and bear that company's catalog numbers NCB-60-D and NCB-137-D. The meter readings on the monitoring instrument will be converted to microcuries on the basis of calibration with the low level Cobalt 60 and Cesium 137 sources.

Any evidence of leakage of sealed sources of 0.005 microcuries or greater, based on analysis of the leak test samples will be reported immediately by phone to the licensee by Environmental Health Services Division of Medical and Health Services Department, Standard Oil Company (Indiana) and in addition results of all leak test analyses will be reported in writing to the licensee. A duplicate copy of all leak test analyses will be retained by Environmental Health Services Division of Medical and Health Service Department, Standard Oil Company (Indiana). Reports will be in terms of microcuries of contamination.

## RESUME'

### K. J. VAVREK

K. J. Vavrek received a B.S. Degree in Mechanical Engineering Technology from Purdue University in December 1977. He started his refinery service in September 1979 as an Engineering Assistant in the Inspection Services Department. He progressed to radiographer in December 1981, became a licensed Boiler and Pressure Vessel Inspector in the State of Indiana in June 1982, and qualified as an ASNT Level II radiographer in April 1983.

He has been a Radiation Safety Officer understudy having worked closely with recent Radiation Safety Officer retirees R. W. Kmak and W. W. Helpingstine performing the duties associated with that position. In February 1985, he successfully completed the Kay Ray Installation and Nuclear Radiation Safety Course.



INDUSTRIAL PROCESS CONTROL EQUIPMENT

516 West Campus Drive • Arlington Heights, Illinois 60004 • (312) 259-5600 • TELEX: 281-085 • CABLE: KAYRAY

February 18, 1985

Amoco Oil Company  
2815 Indianapolis Blvd.  
Whiting, Indiana 46394

Attn: Kenneth J. Vavrek

Dear Kenneth:

Enclosed please find the Certification of Training awarded to you for the successful completion of the Kay-Ray Installation and Nuclear Radiation Safety course presented February 11-15, 1985. Also enclosed is a copy of your test. The Training Certificate is being shipped to you under separate cover.

It was our pleasure to present this course to you and trust that it met with your approval. Please feel free to contact us if you have any questions regarding this matter.

Very truly yours,

*Toni Baker*

Toni Baker  
Service Administrator

enc.

CONTROL NO. 78658

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CERTIFICATION OF TRAINING

Name: Kenneth J. Vavrek

Company: Amoco Oil Company

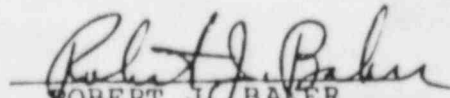
The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY course offered by Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source size and distances
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on equipment  
model 7062, 7062BP, 7062P, 7063, 7063P, 7064, 7067, 7100B

Instructor: Raymond A. Parsons  
Date: February 15, 1985

  
ROBERT J. BAKER  
Vice President

CONTROL NO. 78658

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