

## MATERIALS LICENSE

Amendment No. 04

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.

OFFICIAL RECORD COPY

Licensee		In accordance with letter dated September 17, 1996, 3. License Number 37-20505-01 is amended in its entirety to read as follows:	
1. Shenango, Incorporated			
2. 200 Neville Road Pittsburgh, PA 15225-1690		4. Expiration Date July 31, 2002	
		5. Docket or Reference No. 030-19345	
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 Company Model 4F6S)	A. Not to exceed 2 curies per source and 4 curies total	

9. Authorized use
- A. For use in Koppers Company, Incorporated, Model 2409-6A26 coke oven machinery gamma-ray interlock system transmitter.

## CONDITIONS

10. Licensed material may be used only at the licensee's facilities at located 200 Neville Road, Pittsburgh, Pennsylvania.
11. A. Licensed material shall be used by, or under the supervision of, Dan Cumer.  
B. The Radiation Safety Officer for this license is Dan Cumer.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
13. 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 are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 years.  
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 test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

37-20505-01

Docket or Reference Number

030-19345

Amendment No. 04

(13. continued)

**CONDITIONS**

- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
  - (i) they contain only hydrogen 3; or
  - (ii) they contain only a 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 transfer 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.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. 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 and the source shall be removed 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 I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by Applied Health Physics, Incorporated. 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 six-month intervals or at such longer intervals as specified by the manufacturer, not to exceed 3 years.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

37-20505-01

Docket or Reference Number

030-10345

Amendment No. 04

(Continued)

## CONDITIONS

15. Installation, initial radiation surveys, relocation, removal from service, or any similar activity with devices containing licensed material shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services. The licensee may initially mount the device in accordance with written instructions provided by the manufacturer; however, the device may not be used until surveyed by a person specifically licensed by the Commission or an Agreement State to install gauges. The licensee may repair the electronic equipment not associated with the source or its shielding.
16. 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 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. A record of the results of this survey shall be maintained.
17. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
18. The licensee shall not acquire licensed material in a sealed source or in a device that contains a sealed source unless the source or device has been registered with the Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
19. 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 September 11, 1981  
B. Letter dated January 8, 1985  
C. Letter dated July 3, 1986  
D. Letter dated January 8, 1992  
E. Letter dated April 8, 1992

Date

OCT 26 1996

For the U.S. Nuclear Regulatory Commission

ORIGINAL SIGNED BY:

SHERI A. ARREDONDO

By

Nuclear Materials Safety Branch  
Region I

King of Prussia, Pennsylvania 19406

OCT 26 1996

Craig R. Ferrese  
Environmental Compliance Asst.  
Shenango Incorporated  
200 Neville Road  
Pittsburgh, PA 15225-1690

Dear Mr. Ferrese:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY:  
SHERI A. ARREDONDO

Sheri A. Arredondo  
Division of Nuclear Materials Safety

License No. 37-20505-01  
Docket No. 030-19345  
Control No. 123711

Enclosure:  
Amendment No. 04

DOCUMENT NAME: P:\SHENAN

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	Arredondo						
DATE	10/21/96		10/ /96		10/ /96		10/ /96

OFFICIAL RECORD COPY

**ML 10**



**Shenango**  
INCORPORATED

NEVILLE ISLAND  
PITTSBURGH, PA 15225-1690  
(412) 771-4400

COKE OVENS  
NEVILLE ISLAND, PA

MS-16  
Kb

October 9, 1996

U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406  
Atten: Mail Control No. 123711

Subject: Shenango Incorporated Coke & Iron Div.  
NRC License No. 37-20505-01

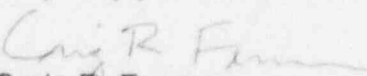
Dear U.S. Nuclear Regulatory Commission,

As per your request, please find attached a copy of the course description for the Radiological Safety Training completed by Shenango Incorporated's Radiation Safety Officer, Dan Cumer. The certificate for successful completion of this course awarded to Shenango's Radiation Safety Officer was provided in a September 17, 1996 correspondence.

Also, please be advised that a portion of the course training required the use various types of nuclear gauges to measure both background and source radioactivity. Also, please note that Shenango uses a sealed source of Cesium 137 which does not involve the use of a nuclear gauge.

Should you have any questions or need additional information, please contact me at 412-771-4400 ext 4481.

Very truly yours,

  
Craig R. Ferrese  
Environmental Compliance Asst.

Attachment

OFFICIAL RECORD COPY ML 10  
COKE • COAL CHEMICALS

123711  
OCT 17 1996



# RADIOLOGICAL SAFETY TRAINING

The objective of the 5 Day Radiological Safety Training Course is to provide participants with the skills and knowledge needed to effectively implement and monitor a Radiation Safety Program.

This course is designed to help you:

- Understand basic radiation protection principles
- Understand biological effects of exposure to radiation and radioactivity
- Comply with NRC Agreement State and State Regulatory requirements
- Use Instrumentation: What, When and Where
- Interpret instrumentation and survey data
- Implement effective assessment and audit programs
- Understand and comply with licensing and documentation requirements
- Respond to radiological emergencies and incidents
- Transport, store & dispose of radioactive material and other sources of radiation

## WHO SHOULD ATTEND?

Those individuals who are or will be administering a Radiation Safety Program. This course is specifically designed to benefit industrial hygienists, safety personnel, health physicists, other occupational health professionals and management and staff facility personnel.

## PREREQUISITES:

There are no specific course prerequisites for enrollment except a basic comprehension of radiation and radiation terminology, mathematics, and the natural sciences.

## COURSE COMPLETION:

On successful completion of the course, each participant will receive a certificate. This certification will satisfy part of the requirements of Federal, State and Agreement State Regulatory agencies for an individual to serve as Radiation Safety Officer (RSO) for licensed radiological operations.

## INSTRUCTIONAL TOPICS:

- Fundamentals of Radiation
- Basic Radiation Terminology
- Evaluation and Control of Radiation Risks
- Interaction of Radiation with Matter and Biological Effects
- Safety Standards and Regulatory Control of Radiation
- Detecting and Measurement of Radiation
- Personnel Monitoring
- Laboratory Exercises and Demonstrations
- Transportation, Transfer, Storage and Disposal of Radioactive Materials
- Management of Emergencies, Incidents and Crises Involving Radiation and/or Radioactive Materials
- Documentation and Effective Management of a Radiation Safety Program.

Post-it® Fax Note	7671	Date	9-30-96	# of pages	1
To	Craig	From	Todd		
Co./Dept.		Co.	AHP		
Phone #		Phone #	835-9555		
Fax #	777-6612	Fax #	835-9559		

123711

# NMSB TELEPHONE CONVERSATION RECORD

DATE OF CALL: 10/8/96

TIME OF CALL: \_\_\_\_\_

PERSON CALLED: Craig Ferrese

(Outgoing Call)

PHONE NO. \_\_\_\_\_

PERSON CALLING: Shen Arredondo

FACILITY NAME: Shenango

LICENSE NO.: 37-20505-01

DOCKET NO. \_\_\_\_\_

SUBJECT:

Am.

SUMMARY:

Submit course description

ACTION REQUIRED/TAKEN:

MS 15

SIGNATURE: Shen Arredondo

MAIL CONTROL NO. 123711

OFFICIAL RECORD COPY

**ML 10**



**Shenango**  
INCORPORATED

NEVILLE ISLAND  
PITTSBURGH, PA 15225-1690  
(412) 771-4400

COKE OVENS  
NEVILLE ISLAND, PA

September 17, 1996

030-19345

U.S. Nuclear Regulatory Commission  
Nuclear Materials Safety Branch  
Region I  
King of Prussia, PA 19406

Subject: Shenango Incorporated Coke & Iron Div.  
NRC License No. 37-20505-01

Dear U.S. Nuclear Regulatory Commission,

As referenced in a correspondence dated June 17, 1996, Shenango Incorporated's former Plant Manager/Radiation Safety Officer resigned. The newly appointed Plant Manager/Radiation Safety Officer is Dan Cumer. Attached for your review is a photocopy of the awarded certificate received by this individual.

It was also indicated in this correspondence that Shenango would also file a revised license application with Region I of the U.S. Nuclear Regulatory Commission listing the current certified individual as the Radiation Safety Officer. However, per a September 17, 1996 telephone conversation with Mrs. Brenda Brown of the U.S. NRC, it was indicated that a letter identifying this license change would be sufficient in notifying the Commission. This letter serves as notification of the referenced license amendment. Should you have any questions or need additional information, please contact me at 412-771-4400 ext 4481.

Very truly yours,

Craig R. Ferrese  
Environmental Compliance Asst.

Attachment  
Copy to U.S. NRC, Document Control Desk, Washington, D.C.

123711

SEP 19 1996

OFFICIAL RECORD COPY

ML 10

COKE • COAL CHEMICALS



# CERTIFICATE OF RADIOLOGICAL TRAINING

*This is to certify that*

*Dan Cumer*

*has successfully completed the 40-Hour  
Radiation Safety Officer Training Course*

*presented by Applied Health Physics, Inc.  
from May 20-24, 1996*

*Lisa C Blough*

Lisa Cortes Blough  
Radiation Safety Officer

*May 24, 1996*

Date



## LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH  
DIVISION OF ACCOUNTING AND FINANCE  
OFFICE OF THE CONTROLLER  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001SHENANGO INC.  
ATTN: CRAIG R. FERRESE  
ENVIROMENTAL COMPLIANCE ASSISTANT  
200 NEVILLE ROAD  
NEVILLE ISLAND  
PITTSBURGH, PA 15225-6900

## TYPE OF ACTION

- ☐ NEW LICENSE  
☐ RENEWAL OF LICENSE  
☒ AMENDMENT TO LICENSE

REQUESTED DATE

9-17-96

LICENSE NUMBER

37-20505-01

CONTROL NUMBER

123711

## I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3P	\$	\$	\$ 300.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	300.00
PAYMENT RECEIVED	\$	0.00
AMOUNT DUE	\$	300.00

☒ Your request was received without the prescribed application fee.

We received your Check

No. \_\_\_\_\_ in the amount of  
\$ \_\_\_\_\_ Payment of the additional fee noted  
above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE - LICENSE FEE ANALYST

BRENDA BROWN

LFDCB

BBB  
9/23/96

LFDCB

Distribution:  
Region 1  
Pending  
BBrown  
LFARB R/P  
DC/DAF/SF (LF-3.2.1)

DATE

9-23-96

## II. FEE NOT REQUIRED

- ☐ Enclosed is Check No. \_\_\_\_\_ which accompanied your request. The fee is not required because:
- ☐ We received your Check No. \_\_\_\_\_ in payment of the fee.
- ☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated \_\_\_\_\_, Control No. \_\_\_\_\_.
- ☐ Your request was combined, prior to review, with your request, Control No. \_\_\_\_\_.

## III. CHECK RETURNED

- ☐ Enclosed is Check No. \_\_\_\_\_ which was returned to us by the bank for:
- ☐ INSUFFICIENT FUNDS  
☐ ACCOUNT CLOSED  
☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

## IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

- ☐ License No. \_\_\_\_\_, Amendment No. \_\_\_\_\_, issued on \_\_\_\_\_ was issued without the required fee being collected. The fee required is noted in Section I of this form.
- ☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).
- ☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03120  
STATUS CODE: 0  
FEE CATEGORY: 3P  
EXP. DATE: 20020731  
FEE COMMENTS: \_\_\_\_\_  
DECOM FIN ASSUR REQD: N  
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED  
Applicant/Licensee: SHENANGO INC.  
RECEIVED DATE: 960919  
DOCKET NO: 3019345  
CONTROL NO.: 123711  
LICENSE NO.: 37-20505-01  
ACTION TYPE: AMENDMENT

2. FEE ATTACHED  
AMOUNT: -----  
CHECK NO.: -----

3. COMMENTS

SIGNED M. A. Perkins  
DATE 7/29/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1 1) 9/27/96

1. FEE CATEGORY AND AMOUNT: 3P \$300

2. CORRECT FEE PAID: APPLICATION MAY BE PROCESSED FOR:  
AMENDMENT -----  
RENEWAL -----  
LICENSE -----

3. OTHER -----  
-----

SIGNED \_\_\_\_\_  
DATE \_\_\_\_\_

Log	Aug 26	(96)
Remitter		
Check No.	119513	Dep at St. Louis
Amount	\$300	
Fee Category	3P	
Type of Fee	And	
Date Check Rec'd		
Date Completed	10/19/96	
By:	BP	