

## MATERIALS LICENSE

Amendment No. 06

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

1. Shenango, Incorporated

2. 200 Neville Road  
Pittsburgh, PA 15225-1690In accordance with letter dated  
April 2, 1997,3. License Number 37-20505-01 is amended in  
its entirety to read as follows:

4. Expiration Date July 31, 2002

5. Docket or  
Reference No. 030-193456. Byproduct, Source, and/or  
Special Nuclear Material7. Chemical and/or Physical  
Form8. 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, individuals  
designated in writing by the Radiation Safety Officer.

B. The Radiation Safety Officer for this license is Hasu Patel.

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.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

37-20505-01

Docket or Reference Number

030-19345

Amendment No. 06

- 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.
- 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. 06

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
  - F. Letter dated February 14, 1997

For the U.S. Nuclear Regulatory Commission

Original Signed By:

John R. McGrath

By

Nuclear Materials Safety Branch  
Region I

King of Prussia, Pennsylvania 19406

MAY - 1 1997

Date

MAY - 1 1997

Daniel Demoise  
Vice President, Administration  
Shenango, Inc.  
200 Neville Road  
Pittsburgh, PA 15225-1690

Dear Mr. Demoise:

This refers to your license amendment request. Enclosed with this letter is the amended 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:  
John R. McGrath

John R. McGrath  
Senior Health Physicist  
Division of Nuclear Materials Safety

License No. 37-20505-01  
Docket No. 030-19345  
Control No. 124443

Enclosure:  
Amendment No. 06

DOCUMENT NAME: R:\WPS\MLTR\L3720505.01

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	<input checked="" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	McGrath <i>JRM</i>						
DATE	04/29/97		04/ /97		04/ /97		04/ /97

OFFICIAL RECORD COPY

ML 10



**Shenango**  
INCORPORATED

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

PLANTS  
NEVILLE ISLAND, PA.  
SHARPSVILLE, PA.

COKE OVENS  
NEVILLE ISLAND, PA.

ms-16

QØ

April 15, 1997

Mr. John McGrath  
United States Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA. 19406-1415

Re: License Number 37-20505-01  
Docket Number 030-19345

Dear Mr. McGrath:

As stated in our correspondence of April 2, 1997, Shenango Incorporated submitted a request to USNRC to grant an additional amendment to Materials License Number 37-20505-01. The purpose of this request was to name Shenango incorporated employee Mr. Hasu Patel as Radiation Safety Officer. Mr. Hasu Patel have satisfactorily completed a 40 hour Radiation Safety Officer Training course offered by "Radiation Safety & Control Services " of Stratham, New Hampshire. I am forwarding a copy of the certificate as part of the document to above referenced license amendment request.

If you have any questions, please contact me at (412) 777-6617.

Sincerely,

*Daniel Demoise*

Daniel Demoise

Vice President, Administration

OFFICIAL RECORD COPY ML 10

PIG IRON • INGOT MOLDS & STOOLS • COKE • COAL CHEMICALS

124443

APR 17 1997

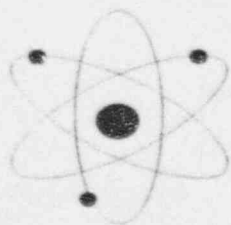
**Radiation Safety & Control Services, Inc.**

*Awards this certificate to*

**Hasu Patel**

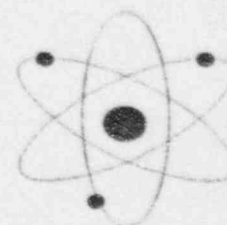
*in recognition of satisfactory completion of*

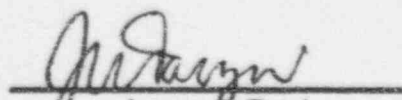
**RADIATION SAFETY OFFICER  
TRAINING COURSE**




Orlando, Florida

March 10 - 14, 1997



  
James F. Tarzia

  
Eric L. Darois



**Shenango**  
INCORPORATED

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

COKE OVENS  
NEVILLE ISLAND, PA

April 2, 1997

Mr. John McGrath  
United States Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

Re: License Number 37-20505-01  
Docket Number 030-19345

Dear Mr. McGrath:

As stated in our correspondence of February 14, 1997, Shenango Incorporated wishes the USNRC to grant an additional amendment to Materials License Number 37-20505-01. The purpose of this request is to name Shenango Incorporated employee Mr. Hasu Patel as Radiation Safety Officer. Upon completion of additional Shenango Incorporated employee *radiation safety training*, a subsequent amendment will be forwarded to the region's attention.

Enclosed, please find USNRC Form 313 with attachments. If you have any questions, please contact me at (412) 777-6617.

Sincerely,

Daniel Demoise  
Vice President, Administration

cc: Applied Health Physics, Inc.  
enclosures

OFFICIAL RECORD COPY ML 10

COKE • COAL CHEMICALS

124443

APR - 3 1997

## APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this information collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to the Information and Records Management Branch (T-6 F33) U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001 and to the Paperwork Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW **030-19345**

## APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS

IF YOU ARE LOCATED IN

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,  
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO

LICENSING ASSISTANT SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO  
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,  
SEND APPLICATIONS TO

NUCLEAR MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
101 MARIETTA STREET, NW, SUITE 2900  
ATLANTA, GA 30323-0196

IF YOU ARE LOCATED IN

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,  
SEND APPLICATIONS TO

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
801 WARRENVILLE RD  
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,  
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,  
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO

NUCLEAR MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
811 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-8064

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1 THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A NEW LICENSE  
☒ B AMENDMENT TO LICENSE NUMBER 37-20505-01  
☐ C RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2 NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

Shenango, Incorporated  
200 Neville Road  
Pittsburgh, PA. 15225-1690

3 ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Shenango, Incorporated  
200 Neville Road  
Pittsburgh, PA. 15225

4 NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Hasu Patel

TELEPHONE NUMBER

(412)-777-6640

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5 RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time

6 PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

7 INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE

8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

9 FACILITIES AND EQUIPMENT

10 RADIATION SAFETY PROGRAM

11 WASTE MANAGEMENT

12 LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

AMOUNT  
ENCLOSED \$

13 CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 (18 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

DANIEL DEMOISE VICE PRESIDENT, ADMIN.

SIGNATURE

*Daniel Demoise*

DATE

4/2/97

## FOR NRC USE ONLY

TYPE OF FEE	F17, LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

124443

April 2, 1997

United States Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA.19406

Re: License Number 37-20505-01  
Docket Number 030-19345

### **ATTACHMENT No.1**

7. Mr. Hasu Patel

See Attachment No.2

12. Amendment Category 3P. (\$350.00)

This constitutes the only change request for Shenango, Inc. at this time.

April 2, 1997

United States Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA.19406

Re: License Number 37-20505-01  
Docket Number 030-19345

**ATTACHMENT No.2**



L97069

March 24, 1997

Mr. Hasu Patel  
Shenango Inc.  
200 Neville Road  
Pittsburgh, PA 15225

Dear Mr. Hasu,

This letter is to inform you that you successfully completed the final examination and 40 hour Radiation Safety Officer Training Course given in Orlando, Florida from March 10-14, 1997. We wish to extend our congratulations to you and to thank you for attending our class. If your employer or your regulators wish to verify your attendance or have any additional questions about the course, please have them contact Eric Darois or myself at 1-800-525-8339.

Again, it was a pleasure to have had you in our class and we hope that we have the opportunity to meet you again in the future.

Sincerely,

James P. Tarzia, CHP  
Director

1-800-525-8339 ■ (603) 778-2871 ■ Fax (603) 778-6879  
Radiation Safety & Control Services, Inc.  
91 Portsmouth Avenue ■ Stratham, NH 03885-2468

Shenango Inc.  
200 Neville Rd.  
Pittsburgh, PA.15225

Hasu Patel  
Manager of Engineering

Education

University of Pittsburgh, Pittsburgh, PA. MSEE. 1976.

Registration

Registered Professional Engineer in Commonwealth of Pennsylvania.

Employment

1973-Present	Shenango Inc.
1970-1973	Peter F. Loftus Co. (Consulting Engineers), Pittsburgh, Pennsylvania.

Work Experience

**Manager, Engineering Dept.:** Prepare annual budget for Capital Expenditure and Major Repairs for entire facility. Coordinate efforts of sales and consulting engineers, contractors, OEM suppliers and manage their work. Provide Technical support for operation and maintenance of facility. Facilitate operation, maintenance and safety departments in providing training related to safety of plant and personnel, environmental regulations and technical know-how.

**Electrical Engineer:** Provide Electrical engineering services to manage capital improvement and repair projects from inception to completion and startup. Prepared budget, appropriation requests, equipment specifications, engineering drawings and work scopes. Provide hands-on training to operators and maintenance personnel, trouble shooting services related to power distribution and controls.

124443

**DIVISION OF ACCOUNTING AND FINANCE  
REQUEST FOR REFUND TO EMPLOYEE/VENDOR**

APR 16 1997

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY  
COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: 3720505012  
NAME: SHENANGO, INC.  
ADDRESS: ATTN: DANIEL DEMOISE VICE PRESIDENT, ADMINISTRATION  
ADDRESS: 200 NEVILLE ROAD  
CITY: PITTSBURGH STATE: PA ZIP: 15225-1690  
TRANS CODE: PK  
TRANS TYPE: FE FUND: X5280 JOB CODE: \_\_\_\_\_ AMOUNT: 850.00  
TRANS TYPE: IR FUND: R1435 JOB CODE: INTL AMOUNT: \_\_\_\_\_  
TRANS TYPE: IR FUND: R1099 JOB CODE: ARCH AMOUNT: \_\_\_\_\_  
TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: \_\_\_\_\_  
TOTAL REFUND AMOUNT: 850.00  
COMMENTS: LIC 37-20585-01/CK 121778/3P AND OVRPMT

(Limit comments to 40 characters, including spaces)

PREPARED BY: Brenda Brown DATE: 4/16/97  
AUTHORIZED BY: Andrea Kneibely DATE: 4/16/97  
ORIGINAL INV. NO: \_\_\_\_\_ DATE PAID: \_\_\_\_\_ AMOUNT: \_\_\_\_\_  
REFUND ENTERED INTO COLLECT BY: \_\_\_\_\_  
REFUND DETERMINED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION**

APR 11 I (97)  
APPL DTD 4/2/97  
3P Fee is \$300  
124443

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 Req'd: N  
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: SHENANGO, INC.  
Received Date: 970403  
Docket No: 3019345  
Control No.: 124443  
License No.: 37-20505-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: \$ 350.00  
Check No.: 121778

3. COMMENTS

Signed \_\_\_\_\_  
Date 4-7-97

Rebecca L. Brown

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / /)

1. Fee Category and Amount: 3P \$300

2. Correct Fee Paid. Application may be processed for:

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_

Log \_\_\_\_\_ I (97)  
Renewal \_\_\_\_\_  
Check No. 121778  
Amount \$350 → \$300 (Refund \$50)  
Fee Category 3P  
Type of Fee Am  
Date Check Rec'd 4/14/97  
Date Completed \_\_\_\_\_  
By: TP