



Safety & Health  
Department

Clinch River Plant

*NMSB3*

January 28, 2008

*LL 31297*

*03037607*

*03120*

Re: **New Materials License Information Change**

To: **Sattar Lodhi**  
**Licensing Assistance Team**  
**Division of Nuclear Materials Safety**  
**U.S. Nuclear Regulatory Commission, Region I**  
**475 Allendale Road**  
**King of Prussia, PA 19406-1415**

*(45-31297-01)*

Dear Sir,

Per your telephone conversation with AEP Corporate Radiation Safety Officer Joe Beer, please find enclosed two (2) copies of a revised NRC Form 313 with the appropriate address information.

Again, thank you for your assistance in the licensing procedure.

Sincerely,

Rick Holmes  
Site Assistant Radiation Safety Officer  
American Electric Power, Clinch River Plant  
3464 Power Plant Road  
Cleveland, VA 24225  
Tel: 276.889.7358

2008 FEB - 1 PM 12: 16

RECEIVED  
REGION 1

RGH/rg

Cc: Ricky Chafin, Plant Manager  
Safety Central File

*141711*

NMSS/RCN1 MATERIALS-002

NRC FORM 313  
(10-2005)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2008

Estimated burden per response to comply with this mandatory collection request: 4.4 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. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

APPLICATION FOR MATERIALS LICENSE

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.

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:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, 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 BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

LL 31297  
03037607  
03120

(45-31297-00)

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 \_\_\_\_\_

C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

American Electric Power, Clinch River Plant  
3464 Power Plant Road  
Cleveland, VA 24255 24225

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

AEP Clinch River Plant, Units 1-3  
3464 Power Plant Road  
Cleveland, VA 24255 24225

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Rick G. Holmes

TELEPHONE NUMBER

(276) 889-7358

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. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 1 C

AMOUNT ENCLOSED

\$ 1,200.00

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 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Ricky Chafin - Manager

SIGNATURE

*Ricky Chafin*

DATE

1-29-08

FOR NRC USE ONLY

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

141711

# NRC RADIOACTIVE MATERIALS LICENSE APPLICATION

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## ITEMS 5 & 6: MATERIALS TO BE POSSESSED AND PROPOSED USES

Radioisotope	Manufacturer/Model #	Quantity	Most Common Use
Californium 252	Sealed Sources	60	Radioactive material is used to analyze bulk material on a moving conveyor belt in a Full Stream Elemental Analyzer which is described in <u>ATTACHMENT I.</u>
	Amersham CVN.CN2	millicuries	
	CVN.CY6	or	
	CVN.5	110	
	CVN.6	microgra	
	CVN.7	ms	
	CVN.10		
	CVN.11		
	orCVN.CYn		
	Frontier Technologies Corp		
10			
10s			
100			
100s			
100z or 100 Series			

### ITEM 7: INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE – RADIATION SAFETY OFFICER.

The Radiation Safety Officer shall be Rick Holmes of American Electric Power. Rick Holmes has completed the training course described in NUREG – 1556.

Licensed material will be used by or under the supervision of Rick Holmes or Woodrow McClanahan. Woodrow McClanahan has also completed the training course described in NUREG – 1556.

### ITEM 8: TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

Training will also be provided for on-site personnel working in or near the restricted areas. This training will be provided by ETI and include material described in NUREG – 1556.

Normally, no one will work in the vicinity of the gauge. However, a “lock-out” procedure will be used to “lock-out” the radiation source if anyone must work in the vicinity of the source where radiation exposure could occur.

### ITEM 9: FACILITIES AND EQUIPMENT

The Radioactive material is contained in the source head mounted above the conveyor as shown in ATTACHMENT I. The gauge is located on site as shown in the drawing ATTACHMENT II. Ambient temperatures will not exceed the recommended operating temperature.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM – SURVEY  
INSTRUMENTS**

ETI, or other specifically licensed individual, shall provide all radiological services and provide radiation survey meters that meet the criteria in NUREG – 1556.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM –  
MATERIAL RECEIPT  
AND  
ACCOUNTABILITY**

Physical inventories shall be conducted by ETI or American Electric Power within six-month intervals during scheduled maintenance.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM –  
OCCUPATIONAL  
DOSIMETRY**

Area and equipment surveys will be conducted at installation and six-month intervals to provide documented evidence that unmonitored individuals are not likely to receive a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20.

ETI, or other specifically licensed individual, will conduct these surveys and provide documentation to the Radiation Safety Officer of American Electric Power. American Electric Power will not provide dosimetry to personnel.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM –  
EMERGENCY  
PROCEDURES**

In case of emergency, serious fire or explosion which could result in severe damage to the “nuclear gauge,” the following actions are to be taken:

1. Isolate the “nuclear gauge” to a minimum of 25 ft. by roping off the area or by other suitable means.
2. If possible, move the shutter control rod to the “OFF” position.
3. Limit access to the “nuclear gauge” (source housing) until a leak test and safety evaluation can be performed by a qualified person.
4. Keep personnel informed about the incident or emergency situation.
5. Obtain assurance from ETI Radiation Safety Officer at (865) 927-9330.
6. Make the required notification pursuant to regulatory requirements if required.

Copies of emergency procedures shall be provided to all gauge users and available on site.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM – LEAK TEST**

Leak testing will be performed at 6-month intervals by ETI or by some other individual specifically licensed to perform leak testing, or by use of a leak testing kit. If a leak test kit is used, the procedure specified in the leak test kit will be followed.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM - MAINTENANCE**

Installation, servicing, maintenance, nuclear gauge relocation or removal will be performed by ETI or by some other company specifically licensed to perform such services.

**ITEM 10:  
RADIATION SAFETY  
PROGRAM -  
TRANSPORTATION**

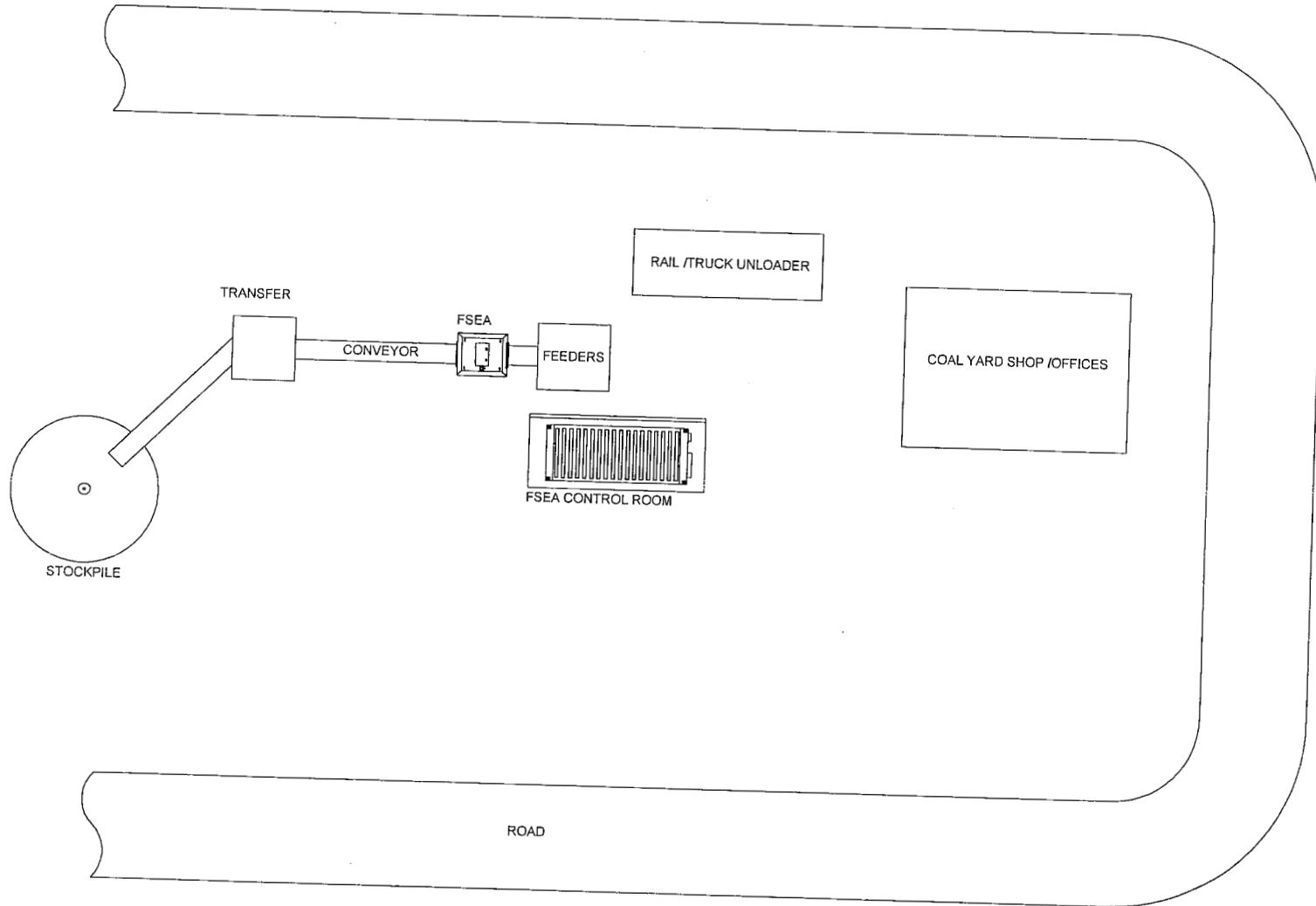
Radioactive material will be shipped directly from the supplier in a DOT approved container. ETI personnel shall perform transfer to gauge.

**ITEM 11:  
WASTE MANAGEMENT –  
GAUGE DISPOSAL AND  
TRANSFER**

Licensed radioactive material will only be disposed of by having:

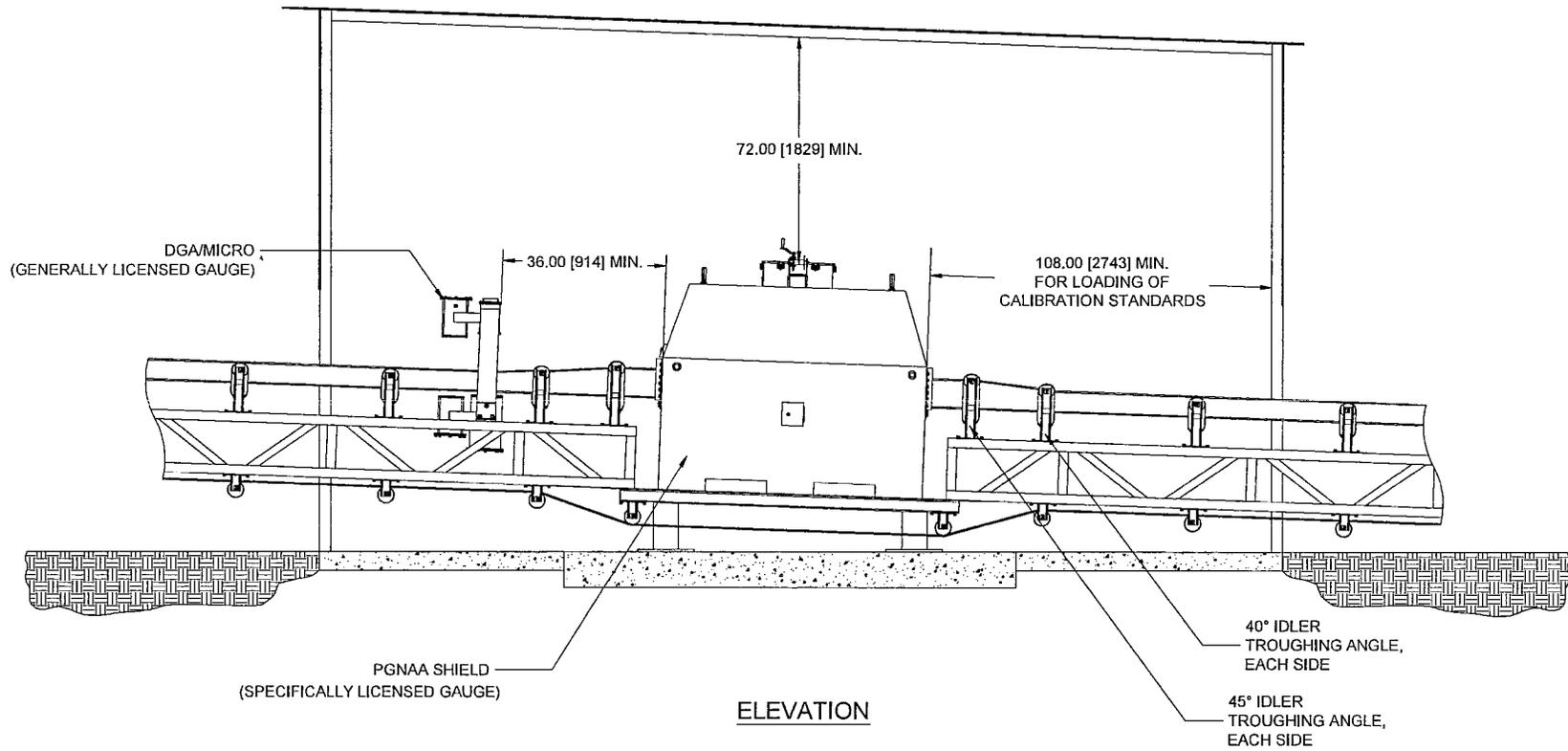
1. ETI remove and dispose of the “Nuclear gauge” or
2. A licensed disposal service or broker remove and dispose of the “nuclear gauge.”

# NRC RADIOACTIVE MATERIALS LICENSE APPLICATION



**ATTACHMENT I**  
**AEP Clinch River**

# NRC RADIOACTIVE MATERIALS LICENSE APPLICATION



## ATTACHMENT II AEP Clinch River

This is to acknowledge the receipt of your ~~license~~ application dated

1/29/2008, and to inform you that the initial processing which includes an administrative review has been performed.

**NEW LICENSE APPLICATION (03037607)**  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 141711.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: Program Code: 03120  
: Status Code: 3  
: Fee Category: \_\_\_\_\_  
: Exp. Date: 0  
: Fee Comments: \_\_\_\_\_  
: Decom Fin Assur Reqd: \_  
:.....

LICENSE FEE TRANSMITTAL

A. REGION

I

1. APPLICATION ATTACHED

Applicant/Licensee: AMERICAN ELECTRIC POWER, CLINCH RIVE  
Received Date: 20080201  
Docket No: 3037607  
Control No.: 141711  
License No.: 45-31297-01  
Action Type: New Licensee

2. FEE ATTACHED

Amount: \$1,200.00  
Check No.: 300082867

3. COMMENTS

Signed Ms. A. Berlin  
Date 2/4/2008

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

1. Fee Category and Amount: \_\_\_\_\_

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

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

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

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