

030-01275

NRC FORM 313
(7-87)
10 CFR 30.32, 33, 34,
35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 6-30-88

APPLICATION FOR MATERIAL 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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20566

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:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
601 PARK AVENUE
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2800
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
796 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94696

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 JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item):	2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)
<input type="checkbox"/> A. NEW LICENSE	Lawrence & Memorial Hospital
<input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____	Montauk Avenue
<input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>06-09261-01</u>	New London, CT. 06320

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:
365 Montauk Ave., New London, CT. 06320

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION: Peter M. Molloy, M.D. TELEPHONE NUMBER: 203-444-5151

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 AND 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 <u>7C</u> AMOUNT ENCLOSED \$ <u>580.00</u>

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, 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.

SIGNATURE-CERTIFYING OFFICER	TYPED/PRINTED NAME	TITLE	DATE
	William T. Christopher, Jr.	President/CEO	4/20/88

9001190030 BB1014
REG1 LIC30
06-09261-01 PDR

FOR NRC USE ONLY

TYPE OF FEE <u>REN</u>	FEE LOG <u>May 1</u>	FEE CATEGORY <u>7C</u>	COMMENTS	APPROVED BY
AMOUNT RECEIVED <u>\$580</u>	CHECK NUMBER <u>034400</u>			DATE <u>5/5/88</u>

"OFFICIAL RECORD COPY" M110

108756

U. S. NRC LICENSE RENEWAL APPLICATION

License Number 06-09261-01

Lawrence & Memorial Hospital

New London, CT. 06320

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ITEM 5 and 6: Byproduct materials for medical use:

<u>Item No.</u>	<u>Byproduct Material</u>	<u>Amount</u>	<u>Item No.</u>	<u>Purpose</u>
5. a	Material in 10CFR Part 35.100	As needed	6. a.	Medical use
5. b	Material in 10CFR Part 35.200	As needed	6. b.	Medical use
5. c	Material in 10CFR Part 35.300	As needed	6. c	Medical use

ITEM 7 : Individuals responsible for Radiation Safety Programs.

7.1 Authorized Users for Medical Use:

Peter M. Molloy, M. D.
David J. Nelligan, M. D.
Donald S. Weinstein , M. D.
John H. Sutphen , M. D.
Leonard A. Copertino , M. D.
Thomas J. Manning, M. D.

7.3 Radiation Safety Officer: Peter M. Molloy, M. D., Physician-in-Charge
Nuclear Medicine Service

ITEM 8: Training for individuals working in or frequenting Restricted Areas.

8.1 Training Program: We will establish and implement the model training program that was published in Appendix A to Regulatory Guide 10.8, Revision 2, as follows:

<u>Worker Group</u>	<u>Training Method</u>	<u>Frequency of Training</u>
Nuclear Medicine staff workers	lectures	At start of employment and annually thereafter.
Ancillary Personnel nurses, housekeeping, personnel who frequent Nuclear Medicine area.	lectures	At start of employment and annually thereafter.

ITEM 9: Facilities and Equipment

9.1 An annotated drawing of the Nuclear Medicine Clinic Area is appended as ATT 9.1

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9.2 Survey Instrument Calibration : We will establish and implement the model procedure for calibrating survey instruments that was published in Appendix B to Regulatory Guide 10.8, Revision 2.

9.3 Dose Calibrator Calibration : We will establish and implement the model procedure for calibrating our dose calibrator that was published in Appendix C to Regulatory Guide 10.8, Revision 2., except that the data will not be plotted on graph paper, but compared with the calculated activity of the Tc-99m source, using the measured activity at approximately 30 hours after the start of the linearity test as the base activity for the calculations to determine the accuracy of the linearity test.

9.4 Personnel Monitoring Program : We will establish and implement the model personnel external exposure monitoring program published in Appendix D to Regulatory Guide 10.8, Revision 2.

9.5 Mobile Imaging Equipment: N/A.

9.6 Other Equipment and Facilities: N/A.

ITEM 10: Radiation Safety Program

10.1 Radiation Safety Committee/Radiation Safety Officer: We will issue the model Radiation Safety Committee Charter and Radiation Safety Officer Delegation of Authority that was published in Appendix F to Regulatory Guide 10.8, Revision 2. However, The Hospital Bylaws requires that the Committee be known as the Radioactive Materials Committee. The Radioactive Materials Committee will have the same charter mentioned above.

10.2 ALARA Program: We will establish and implement the model ALARA program that was published in Appendix G to Regulatory Guide 10.2, Revision 2.

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New London, CT 06320

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10.3 Leak Testing: We will establish and implement the model procedure for leak testing sealed sources that was published in Appendix H to Regulatory Guide 10.2, Revision 2.

10.4 Safe Use of Radiopharmaceuticals: We will establish and implement the model safety rules published in Appendix I to Regulatory Guide 10.2, Revision 2.

10.5 Spill Procedures: We will establish and implement the model spill procedures published in Appendix J to Regulatory Guide 10.2, Revision 2.

10.6 Ordering and Receiving: We will establish and implement the model guidance for ordering and receiving radioactive material that was published in Appendix K to Regulatory Guide 10.2, Revision 2.

10.7 Opening Packages: We will establish and implement the model procedure for opening packages that was published in Appendix L to Regulatory Guide 10.2, Revision 2.

10.8 Unit Dosage Records: N/A.

10.9 Multidose Vial Records: We will establish and implement the model procedure for a multidose vial record system that was published in Appendix M.2 to Regulatory Guide 10.2, Revision 2.

10.10 Molybdenum - 99 Concentration Records: We will establish and implement the model procedure for measuring and recording molybdenum-99 concentrations that was published in Appendix M.3 to Regulatory Guide 10.2, Revision 2.

10.11 Implant Source Use Records: N/A.

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10.12 Area Survey Procedures: We will establish and implement the model procedure for area surveys that was published in Appendix N to Regulatory Guide 10.2, Revision 2.

10.13 Air Concentration Control: N/A. Xenon-133 is no longer used for lung ventilation studies.

10.12 Area Survey Procedures: We will establish and implement the model procedure for radiation safety during radiopharmaceutical therapy that was published in Appendix P to Regulatory Guide 10.2, Revision 2.

ITEM 11: Waste Management

11.1 Waste Disposal: We will establish and implement the general guidance and model procedures for waste disposal that was published in Appendix R to Regulatory Guide 10.2, Revision 2.

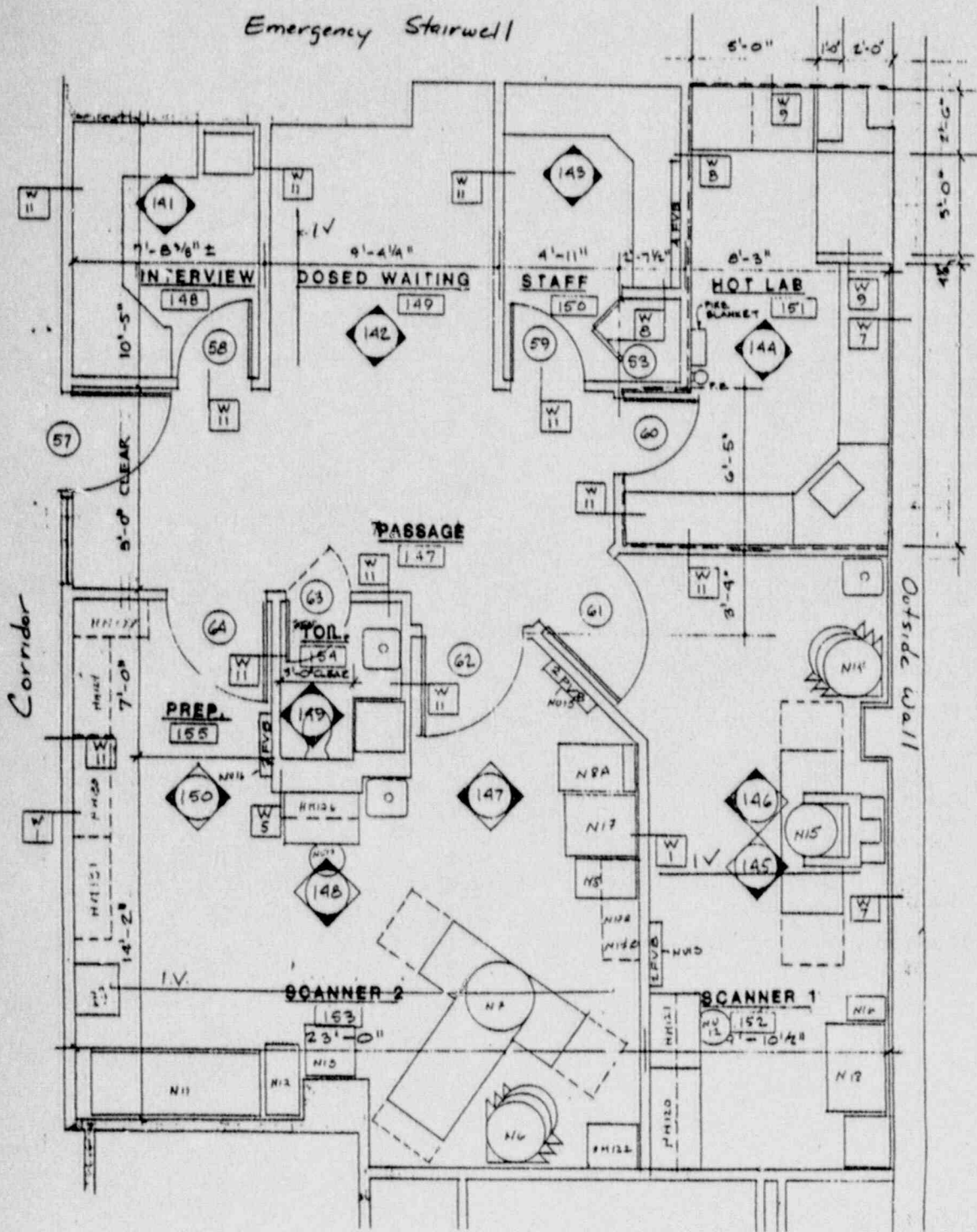
ITEM 12: License Fees: The fee category is 7. C. The License renewal fee is \$580.

LAWRENCE & MEMORIAL HOSPITAL

PROPOSED AIR SUPPLY AND EXHAUST VALUES IN NUCLEAR MEDICINE

<u>SPACE NAME</u>	<u>ROOM NO</u>	<u>CFM SUPPLY</u>	<u>CFM EXHAUST</u>
PASSAGE	147	100	0
INTERVIEW	148	100	80
DOSED WAITING	149	100	80
STAFF	150	100	80
HOT LAB	151	850	1090
SCANNER I	152	720	720
SCANNER II	153	520	520
TOILET	154	0	50
PREP	155	500	500

Emergency Stairwell

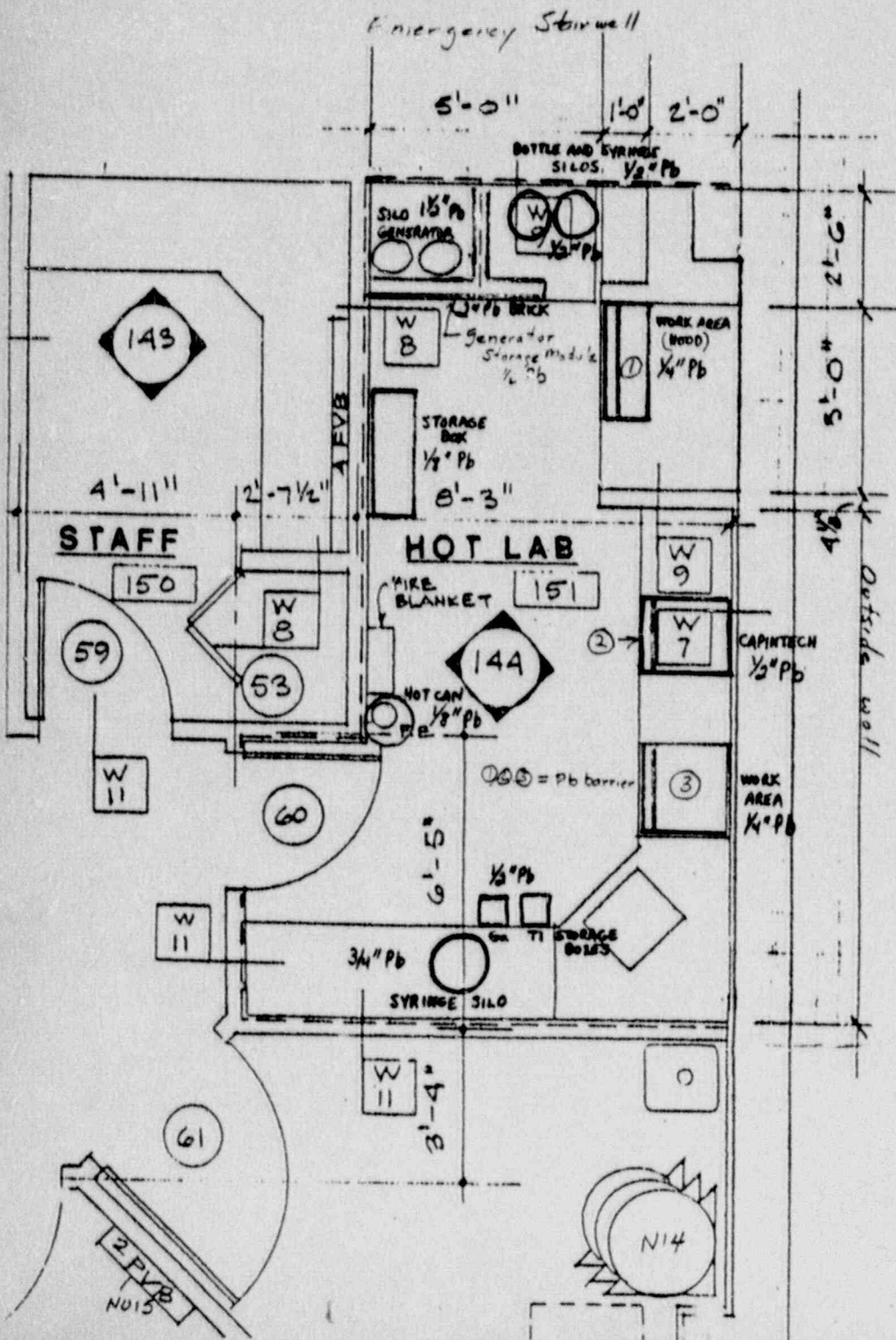


Nuclear Medicine Dept., Lawrence Memorial Hosp.

Stecker	100 APC: Stecker	Project L & M F-1 EXPANSION	SD-4
LaBau	100 APC: LaBau	Project No B2026	A2.1
Arneill	100 APC: Arneill	Drawn By DHW	
McManus	100 APC: McManus	Scale 1/4" = 1'-0"	Date 3/1/85

Nuclear Medicine Dept.
Lawrence & Memorial Hosp.

Emergency Stairwell



(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 02120
STATUS CODE: 2
FEE CATEGORY: 7C
EXP. DATE: 19880531
FEE COMMENTS:

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: LAWRENCE & MEMORIAL HOSPITALS
RECEIVED DATE: 980426
DOCKET NO: 3001275
CONTROL NO.: 108756
LICENSE NO.: 06-09261-01
ACTION TYPE: RENEWAL

2. FEE ATTACHED
AMOUNT: 580.00
CHECK NO.: 034400

3. COMMENTS

SIGNED BP
DATE 4/27/88

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1-11)

1. FEE CATEGORY AND AMOUNT: 7C # 580

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

3. OTHER _____

SIGNED J. Kimberley
DATE 5/6/88