

NRC Form 313 I (12-81) 10 CFR 30		U.S. NUCLEAR REGULATORY COMMISSION		1. APPLICATION FOR: <i>(Check and/or complete as appropriate)</i>	
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL				a. NEW LICENSE	
See attached instructions for details. Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.				b. AMENDMENT TO: LICENSE NUMBER	
				c. RENEWAL OF: LICENSE NUMBER <div style="text-align: center;">X 06-15099-01</div>	
2. APPLICANT'S NAME <i>(Institution, firm, person, etc.)</i> <div style="text-align: center;">Canberra Industries, Inc.</div> <hr/> TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION <div style="text-align: center;">(203) 238-2351</div>			3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION <div style="text-align: center;">Robert M. Loesch</div> <hr/> TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION <div style="text-align: center;">(203) 238-2351 x352</div>		
4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i> <i>(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)</i> <div style="text-align: center;">Nuclear Power Division 45 Gracey Avenue, Meriden, CT 06450</div>			5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i> <div style="text-align: center;">45 Gracey Avenue Meriden, CT 06450</div>		
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)					
6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL <i>(See Items 16 and 17 for required training and experience of each individual named below)</i>					
FULL NAME			TITLE		
a.	See Attachment			See Attachment	
b.					
c.					
7. RADIATION PROTECTION OFFICER <div style="text-align: center;">Robert M. Loesch</div>			Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.		
8. LICENSED MATERIAL					
L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i> C	MAXIMUM NUMBER OF MILLCURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D	
(1)		See	Attachment		
(2)					
(3)	8711030263 850325 REG1 LIC30 06-15099-01 PDR				
(4)					
DESCRIBE USE OF LICENSED MATERIAL E					
(1)	See Attachment				
(2)					
(3)					
(4)					

9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	See Attachment		
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	Prop. Ctr.	Canberra	2400	1 +	α β γ	0.01 CPM α 1.7 CPM β γ
(2)	Geli Spec.	Canberra	8600	1 +	γ	Single Events
(3)	Alpha Spec.	Canberra	7400	1	α	Single Events
(4)	Ionization	Victoreen	Panoramic	1	β γ	0.1 mr/hr

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY See Attachment	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments. See Attachment
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12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input checked="" type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____	R. S. Landauer Glenwood Service Pack Glenwood, IL 60425	<input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): _____ _____ _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

<input type="checkbox"/> a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC. <input type="checkbox"/> b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC. <input type="checkbox"/> c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC. <input type="checkbox"/> d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.
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14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED Radiation Service Organization, Laurel, MD 20707
b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

N/A

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our 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.

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature) <i>Robert M. Loesch</i>
	c. NAME (Type or print) Robert M. Loesch
(1) LICENSE FEE CATEGORY: 170.31 (3) L	d. TITLE Radiation Safety Officer
(2) LICENSE FEE ENCLOSED: \$ 110.00	e. DATE 28 September 1983

Attachment for Renewal - License 06-15099-01

5. Individuals who will use or directly supervise the use of licensed material:

a. Robert M. Loesch	Radiation Safety Officer
b. Rowena S. Argall	Senior Health Physicist
c. Jim Cerreto	Quality Assurance Manager
d. Timothy D. Harkey	Senior Supervisor, Systems Test
e. Jim Colarsi	Manager, Test and Service
f. Ed Kaminski	Instrument Lab Engineer

3(A,B,C,D). Licensed Material:

1. Any Byproduct material with atomic numbers 3-83 inclusive	Sealed Sources	Various	200 uCi each source, 20 mCi total all sources
2. Americium-241	Sealed Source	New England Nuclear, Models NER-478, 476A, NES-1285. Isotope Products, Models AN-241, PH-241, 230.	2 Ci max.
3. Americium-241	Alpha Source	New England Nuclear, Model NES-302A. Isotope Products, Model AF-241.	10 uCi max.
4. Cadmium-109	Sealed Source	New England Nuclear, Models NER-466A, 465, NES-1055. Isotope Products, Models AN109-2 thru AN109-100, 227.	200 mCi max.
5. Iron-55	Sealed Source	New England Nuclear, Models NER-461A, 461B, NES-400S. Isotope Products, Models AN-55, PH-55, 225.	200 mCi max.

8(A,B,C,D). Licensed Material (cont):

6. Cesium-137	Sealed Source	New England Nuclear, Model NER-401H. Isotope Products, Model 229.	200 mCi max.
7. Cobalt-60	Sealed Source	New England Nuclear, Model 400H. Isotope Products, Model 236. NBS, Models SRM-4203C, 4210.	20 mCi max.
8. Polonium-210	Sealed Source	Isotope Products, Models X-KIT-1, X-210BE.	2 mCi max.
9. Thorium-228	Sealed Source	Isotope Products, Model 246.	100 uCi max.
10. Gadolinium-153	Sealed Source	New England Nuclear, Models NER-480, 481A.	200 mCi max.
11. Radium-226	Sealed Source	Gamma Products, Model 244.	200 uCi max.
12. Radium-226	Alpha Source	Gamma Products, Model AF-206.	10 uCi max.
13. Thorium-228	Alpha Source	Gamma Products, Model AF-228. New England Nuclear, Model NES-312S.	2 uCi max.
14. Uranium-238	Alpha Source	Gamma Products, Model AF-238.	0.1 uCi max.
15. Any Byproduct material with atomic numbers 3-83 inclusive	Uniformly loaded F&J Model C charcoal cartridge	Analytics Inc., (no model no.)	2 uCi each source, 5 uCi total

8(E). Use of Licensed Material:

- 1 - 14. For use at Canberra for detector system functional testing and calibration. Sources may be distributed to authorized, properly licensed, customers along with other Canberra Products or in license exempt quantities to persons for the purpose of check-out and calibration of Canberra systems.

9. Storage of Sealed Sources:

All sources when not in use are stored in locked steel cabinets with supplemental shielding as necessary. Keys are under the control of the individuals listed in item 6. Sources that are purchased for resale are kept in their original shipping containers except for inspection.

11. Calibration of Instruments Listed in Item 10:

- a). Radiation Service Organization
5204 Minnick Rd.
P.O. Box 419
Laurel, Md. 20707

Quarterly - Item 10, Line No. 4

- b). Direct calibration against NBS or secondary standards.

Weekly during use - Item 10, Line Nos. 1-3

13. Facilities and Equipment:

Canberra is a manufacturer of Germanium and Silicon photon spectrometers and of low level alpha/beta/gamma counting systems. We use gamma reference sources for Ge detector calibration. Sources (Fe-55, Cd-109, Am-241, Pr-147, etc.) for Si(Li) spectrometer calibration and for X-ray fluorescence analysis. Alpha sources (Am-241, Ra-226, Th-228, U-238, Gd-148, etc.) are used in small quantities for quality control checks on Si(Li) detectors in process, for engineering evaluations of low level alpha/beta/gamma counting systems, and for engineering evaluation of S.S.B. detectors. Beta sources are used for testing of low level alpha/beta/gamma counting systems.

13. Facilities and Equipment (cont):

Sources that are not being used routinely are kept in a steel cabinets. Appropriate amounts of lead are used to shield the insides of the steel cabinets to further reduce the radiation levels to ambient background. Sources that are purchased for resale are kept in their original shipping containers except for inspection. Alpha sources are used in special counting chambers and are kept in the cabinets except when in use.

At times, it is necessary for individuals to remove sources from Canberra for the purposes of demonstrating manufactured detector systems. In all such cases, sources are exempt quantities and are always under control of an authorized Canberra employee.

15. Radiation Protection Program:

Persons who work with sources at Canberra or who service Canberra equipment outside the plant are provided with film, or TLD badges, which are read on a monthly basis. This services is provided by R.S. Landauer as specified in item 12.

Sources for which leak testing is required will be tested by using kits supplied by ICN Pharmaceuticals, Inc., Health Physics Services, 2727 Campus Drive, Irvine, California, 92715. They perform such tests under California License #1132-59.

Routine inspections and radiation surveys are performed of storage and work areas at random intervals with at least one inspection each month.

Procedures exist (attached) for the receiving and storage of radioisotopes.

16 (A,B,C,D). Formal Training in Radiation Safety:

ROBERT M. LOESCH

Lynchburg College	3 yrs.	1966-69	Formal courses in math, physics
U.S. Army CBR School	12 wks.	1969	Formal courses in health physics, nuclear weapons effects
Catholic University	12 wks.	1973	Formal courses in nuclear engineering

16(A,B,C,D) Formal Training in Radiation Safety - Robert M. Loesch (cont)

Radiation Management Corporation	3 days	1973	Liquid Scintillation Methodology
Virginia Polytechnic Institute	17 wks.	1973-74	Formal courses in math, nuclear science
Towson State Univ.	1 yr.	1980-81	Formal courses in math, physics, biology
University of N.C.	3 days	1981	Seminar on BEIR III report
Armed Forces Radiobiology Research Inst.	1 wk.	1981	Medical Effects of Nuclear Weapons
Health Physics Mid-year Symposium	1 wk.	1982	Accelerator Health Physics
Health Physics Society, Balt/Wash. Chapter	23 wks	1982	Health Physics Certification Review

ROWENA S. ARGALL

Loretto Heights College	3 yrs.	1966-68	Formal courses in math, physics, biology
Regis College	1 yr.	1969-70	Formal courses in biology. B.S. in Biology.
Univ. of Denver	2 yrs.	1970-72	Formal courses in biochemistry, biology.
Colorado St. Univ.	3 yrs.	1974-77	M.S. in Health Physics.
Oak Ridge Assoc. Univ.	1 wk.	1979	Internal Dosimetry for Fixed Nuclear Facilities.
University of Lowell	1 wk.	1980	Internal Dosimetry
Health Physics Society Summer School	1 wk.	1980	Environmental Dose Calculations

16(A,B,C,D) Formal Training in Radiation Safety - Rowena S. Argall (cont)

Health Physics Society Summer School	1 wk.	1981	Operational Health Physics
Lowell University	1 wk.	1983	Health Physics Certification Review
Health Physics Society Summer School	1 wk.	1983	Internal Dosimetry

JIM COLARESI

Waterbury St. Tech	2 yrs.	1976-83	Formal courses in physics, math
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ED KAMINSKI

Waterbury St. Tech	2 yrs.	1979-81	Formal courses in math, physics
Univ. of Hartford	2 yrs.	1981-83	Formal courses in math, physics

JIM CERRETO

Hartford St. Tech College	2 yrs.	1966-68	Formal courses in math, physics
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TIM HARKEY

Hartford St. Tech College	2 yrs.	1966-68	Formal courses in math, physics
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17. Experience:

ROBERT LOESCH

U.S. Army, Okinawa

2 yrs.

1970-72

Supervised Radio-
active Material
Disposal Facility

Handled large quantities of individual items containing various uCi amounts of byproduct material. Total inventory averaged 1-2 Ci.

Catholic University

12 wks.

1973

Operation of 100mW
research reactor,
neutron activation
experiments.

Virginia Polytechnic

17 wks.

1973-74

Neutron activation
experiments. H.P.
evaluation of 100KW
Argonaut reactor.

As Health Physicist, handled uCi and mCi amounts
of activated material to include SNM.

Various commercial
nuclear power reactors

8 yrs.

1974-82

Health Physics
Consultant

Delt with a variety of situations involving
activated/contaminated material with dose rates
exceeding 1000 R/hr, and airborne concentrations
exceeding 1.0E-4 uCi/cc (filters reading 50 R/hr.)
Procured and chemically analyzed various primary
samples.

Armed Forces Radio-
biology Research
Institute

2 yrs.

1972, 1982

Health Physicist,
Head, Radiation
Health Physics
Division

License responsibility of research involving large
numbers of mCi amounts of unsealed sources used in
Nuclear Medicine and Radiobiology reasearch. Sources
activated by both a 40 Mev linear accelerator and a
1 MW (steady state) TRIGA pulse reactor.

Responsible for the following NRC licenses:

Broadscope byproduct	19-08330-02
Byproduct (Co-60)	19-08330-03
TRIGA Reactor	R-84

17. Experience - Robert M. Loesch (cont)

ISOTOPE	MAX. AMOUNT	WHERE	DURATION	USE
Pu-Be	10 Ci	AFRRI	2 yrs.	Calibration
Tritium	10 Ci	AFRRI	1 yr.	Targets
Co-60 (pool)	170 KCi	AFRRI	2 yrs.	Research
Cs-137	100 Ci	AFRRI	2 yrs.	Calibration
U, Pu foils	10 gm.	AFRRI	1 yr.	Calibration
Co-60 (theratron)	2 KCi	AFRRI	1 yr.	Calibration
Fission Chambers	10 gm.	AFRRI	1 yr.	Calibration
Tc-99m generator	2 Ci	AFRRI	2 yrs.	Research
Various unsealed	100 mCi	AFRRI	2 yrs.	Research

ROWENA S. ARGALL

Public Service Co. of Colorado, Ft. St. Vrain	4 yrs.	1974-78	Assistant to Radiochemist
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Prepared and analyzed samples of both primary and secondary systems. Calibration and QA of detection equipment. Source accountability.

ISOTOPE	MAX. AMOUNT	WHERE	DURATION	USE
H-3	1 mCi	FSV	4 yrs.	Calibration
Co-60	1 mCi	FSV	4 yrs.	Calibration
Cs-137	10 uCi	FSV	4 yrs.	Calibration
Kr-85	5 mCi	FSV	4 yrs.	Calibration
Sr-90	10 uCi	FSV	4 yrs.	Calibration
Cr-51	28 uCi	Canberra	4 yrs.	Calibration
Cs-137	20 uCi	Canberra	4 yrs.	Calibration
Mn-54	5 uCi	Canberra	2 yrs.	Calibration
Co-60	7 uCi	Canberra	4 yrs.	Calibration
I-131	2 uCi	Canberra	4 yrs.	Calibration

TIM HARKEY

Nuclear Structure Lab, Yale University	2 yrs.	1966-68	OJT involving accelerator
Canberra Industries	1 yr.	1983	OJT

ISOTOPE	MAX. AMOUNT	WHERE	DURATION	USE
Cs-137	10 mCi	Yale	2 yrs.	Calibration
Co-57	8 uCi	Canberra	1 yr.	Calibration
Co-60	5 uCi	Canberra	1 yr.	Calibration
Na-22	10 uCi	Canberra	1 yr.	Calibration
Am-241	1 uCi	Canberra	1 yr.	Calibration
Cd-109	1 uCi	Canberra	1 yr.	Calibration

17. Experience (cont)

JIM COLARESI

Canberra Industries 8 yrs. 1975-83 OJT calibrating
detectors

ISOTOPE	MAX. AMOUNT	WHERE	DURATION	USE
Co-60	1 mCi	Canberra	8 yrs.	Calibration
Cs-137	20 uCi	Canberra	8 yrs.	Calibration
Th-228	2 uCi	Canberra	8 yrs.	Calibration
Co-56	100 uCi	Canberra	8 yrs.	Calibration
Ba-133	20 uCi	Canberra	8 yrs.	Calibration
Cd-109	20 uCi	Canberra	8 yrs.	Calibration
Am-241	10 uCi	Canberra	8 yrs.	Calibration
C-14	10 uCi	Canberra	8 yrs.	Calibration

JIM CERRETO

Canberra Industries 12 yrs. 1971-1983 OJT - Quality
Assurance

ISOTOPE	MAX. AMOUNT	WHERE	DURATION	USE
Co-60	1 mCi	Canberra	12 yrs.	Quality Control
Cs-137	20 uCi	Canberra	12 yrs.	Quality Control
Th-228	2 uCi	Canberra	12 yrs.	Quality Control
Co-56	100 uCi	Canberra	12 yrs.	Quality Control
Ba-133	20 uCi	Canberra	12 yrs.	Quality Control
Cd-109	20 uCi	Canberra	12 yrs.	Quality Control
Am-241	10 uCi	Canberra	12 yrs.	Quality Control
C-14	10 uCi	Canberra	12 yrs.	Quality Control

ED KAMINSKI

Canberra Industries 1 yrs. 1982-1983 OJT - Engineering
and Testig

ISOTOPE	MAX. AMOUNT	WHERE	DURATION	USE
Co-57	8 uCi	Canberra	1 yr.	Calibration
Co-60	5 uCi	Canberra	1 yr.	Calibration
Na-22	10 uCi	Canberra	1 yr.	Calibration
Am-241	1 uCi	Canberra	1 yr.	Calibration
Cd-109	1 uCi	Canberra	1 yr.	Calibration

CANBERRA INDUSTRIES, INC.

Procedure for Receiving and Storage of Radioisotopes

I. Radiation Survey

Using a Panoramic Survey Meter or equivalent, scan each package containing radioisotopes upon receipt. Record in logbook the following information:

- a). Person performing survey
- b). Date surveyed
- c). Label (if any) on package (i.e. White I, Yellow II, etc.)
- d). Dose rates at surface and 3 ft. from package

Any package received that is visibly damaged or leaking should immediately be reported to the Radiation Safety Officer. Radiation dose rates are limited to 200 mr/hr or less at the surface of the package, and 10 mr/hr or less at 3 ft. If either limit is observed, notify immediately by telephone or telegram the following parties:

- a). Canberra's Radiation Safety Officer or designated alternate
- b). The carrier who delivered the package
- c). Region I, U.S. NRC
Office of Inspection and Enforcement
631 Park Avenue
King of Prussia, Pa. 19406
Tel. (215) 337-5000

II. Wipe Test for Removable Contamination

A. Sample Taking

Before opening any package containing radioisotopes, moisten a 2 inch diameter disc of filter paper and wipe each side of the package covering approximately 100 square inches of surface area. Wear a disposable latex glove when handling the sample. Put the sample and the glove into a plastic bag (with the purchase order number written thereon) and hand carry to the Detector Products Lab for analysis.

B. Sample Checking

Check the sample with the shielded alpha/beta/gamma counter in the Detector Test lab. Record in the log the P.O. number, date, background level, and net count (total count - Bkgd) for each sample using a 100 second count time. Notify the Radiation Safety Officer if any sample yields a net count of 2 times the square root of background.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Canberra Industries, Inc.
ATTN: Radiation Safety Officer
One State Street
Meriden, CT 06450

OCT 19 1987

REFUND OF APPLICATION FEE

1. BACKGROUND:

Check Received October 26, 1983

Application Dated September 28, 1983

Check Number 45432

Check Amount \$420

2. REFUND:

Amount \$350

This refund is now being processed and will be sent as soon as possible.

3. REASON FOR REFUND:

Overpayment of fee required for September 28, 1983 application for renewal of License 06-15099-01.

15 /
Glenda Jackson
License Fee Management Branch
Division of Accounting and Finance
Office of Administration and
Resources Management

*Refunded
from Fee Cat 3A - been
should have been
3L and 2D (1978
schedule) - \$110 + \$70 =
\$180 total. a check No.
was paid by
45056 on 10/4/83*