

C30-22114

L+L= 20812

NRC FORM 313  
(1-84)  
10, CFR 30, 32, 35, 34,  
35 and 40

U.S. NUCLEAR REGULATORY COMMISSION  
APPROVED BY OMB  
3150-0120  
Expires: 5-31-87

## APPLICATION FOR MATERIAL LICENSE

03121

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.

## FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 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  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
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  
799 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  
811 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  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

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)

☒

A. NEW LICENSE

☐

B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

☐

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

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Charles H. Quandt Associates, Inc.  
P.O. Box A, 474 N. Centre St.  
Pottsville, PA 17901

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

At the address listed in Item 2 and at temporary jobsites throughout the U.S. where the U.S. NRC maintains jurisdiction over byproduct materials.

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

John P. Kweder, Jr., P.E.

## TELEPHONE NUMBER

717-622-4055

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.

See Attached Sheets

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

See Attached Sheets

## 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

See Attached Sheets

## 9. FACILITIES AND EQUIPMENT.

See Attached Sheets

## 10. RADIATION SAFETY PROGRAM.

See Attached Sheets

## 11. WASTE MANAGEMENT.

See Attached Sheets

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

FEE CATEGORY \$230.00 AMOUNT ENCLOSED \$ 230.00

## 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, 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

Charles H. Quandt, P.E.

President

1/2/85

## 14. VOLUNTARY ECONOMIC DATA

## a. ANNUAL RECEIPTS

<\$250K	<input checked="" type="checkbox"/>	\$1M-3.5M
\$250K-500K	<input type="checkbox"/>	\$3.5M-7M
\$500K-750K	<input type="checkbox"/>	\$7M-10M
\$750K-1M	<input type="checkbox"/>	>\$10M

## b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

30

## c. NUMBER OF BEDS

N/A

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☒ YES☐ NO

## FOR NRC USE ONLY

## TYPE OF FEE

## FEE LOG

## FEE CATEGORY

## COMMENTS

## APPROVED BY

## AMOUNT RECEIVED

## CHECK NUMBER

PRIVAC

8506110647 850522  
REQ1 LIC30  
37-20812-01 PDR

"OFFICIAL RECORD COPY"

03466 FEB 25 1985

## DATE

3/4/85

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

U.S. NRC  
IN. FEE MGMT. BRANCH

85 MAR -1 P3:32

RECEIVED

- 5a.
  1. CS-137
  2. AM 241:Be
- 5b.
  1. Sealed Source
  2. Sealed Source
- 5c.
  1. Not to exceed 10 MCi per source
  2. Not to exceed 50 MCi per source
6. For use in a Troxler Model 3400 Series Surface Moisture Density Gauges to measure properties of construction materials.
7. John K. Schneider, P.E.
8. John K. Schneider, P.E. or an individuals who have completed the Manufacturer's training course and have been instructed in our operating and emergency procedures. Copies of the Certificate of Training for each user will be maintained in our files.
9. Sealed sources will be stored and used in a Surface Moisture Density Gauge manufactured by Troxler Electronics, P.O. Box 12057, Cornwallis Road, Research Triangle Park, North Carolina, 27709. Model 3400 series. See attached drawings for plans of storage area.
10. Individuals listed in Item 8 have completed the Manufacturer's required training course. Certificates of completion are attached and kept on file at the Manufacturer's office and at the Applicant's address listed in Item 2. See attached operating and emergency procedures for additional information.
11. Sources will be returned to the Manufacturer or another authorized licensee when use is discontinued.

## Radiation Safety Program

### 1. Radiation Protection Officer

A. John K. Schneider, P.E. has been designated as the company Radiation Safety Officer and will assume the duties and responsibilities that include:

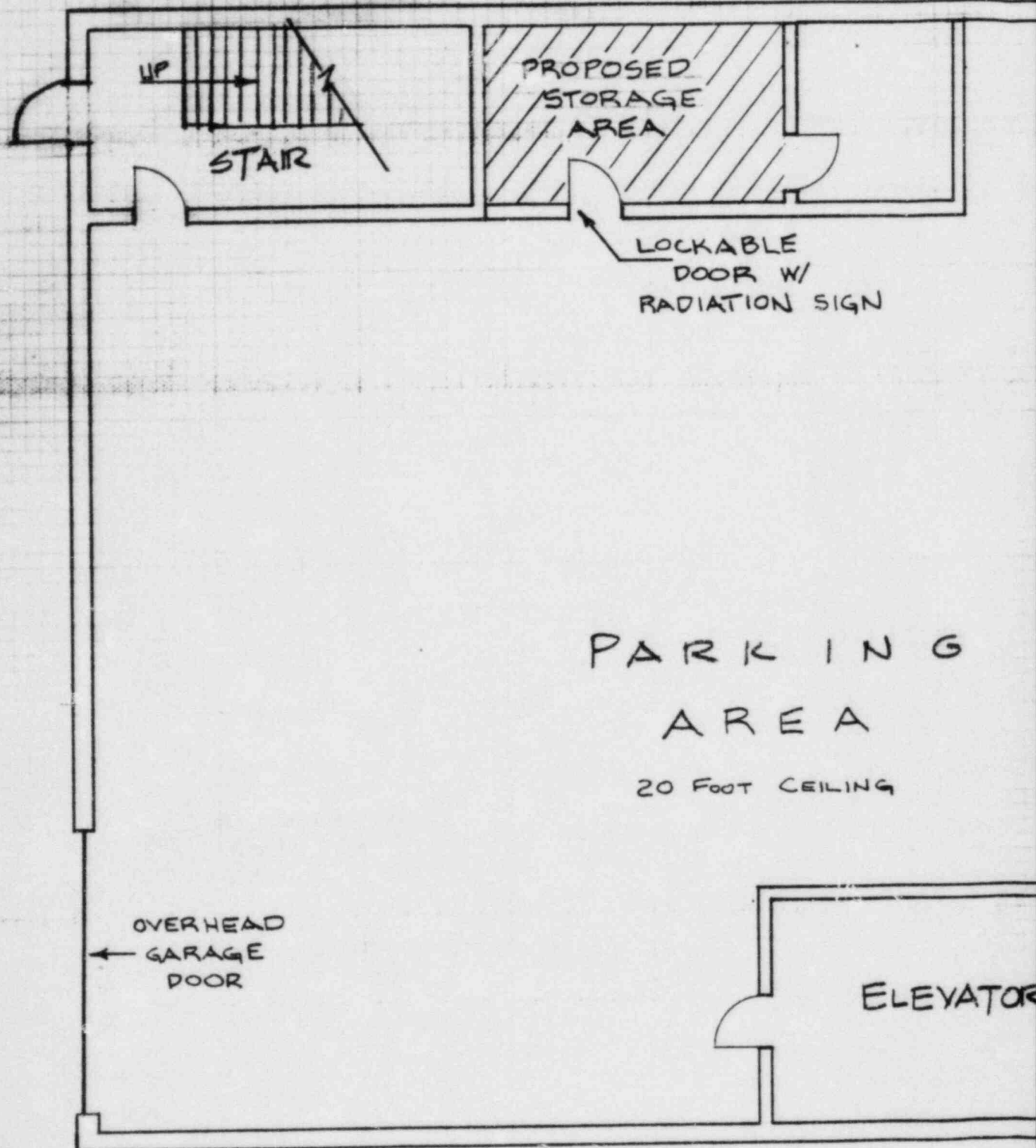
1. To assure that all terms and conditions of the license are being met; and, that the information contained in the license is up-to-date.
2. To ensure the equipment has been leak tested in the required timely manner; and, that the leak test is performed in the manner prescribed by the equipment manufacturer.
3. To assure that the use of the equipment is only by individuals that have been authorized by the Radiation Protection Officer; and, that all users wear personnel monitoring equipment when utilizing the equipment.
4. To maintain records as required by the license and the regulations. These records shall include personnel exposure records, leak test records and training certificates for all users.
5. To assure the equipment is properly secured against unauthorized removal at all times when they are not in use.
6. To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft; and, to notify the proper authorities in case of emergency.
7. To assure that all users have read and understand the Radiation Safety operating and emergency procedures.

### 2. Operating Procedures

#### A. Transportation of Equipment

1. All possible means shall be provided to ensure that the equipment is fully secured in the transporting vehicle; and, the equipment is away from the passenger compartment. When transporting in an enclosed vehicle (car or van) the vehicle will be locked. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.
2. The gauge will be transported in the Troxler transportation case. The US Department of Transportation requires that the gauge be transported in a properly labeled carrying case.





GROUND FLOOR

SCALE:  $\frac{1}{8}" = 1'-0"$

## GENERAL NOTES

1. NEAREST OCCUPIED AREA IS ON SECOND FLOOR ONE FLOOR ABOVE GROUND FLOOR.
2. BUILDING IS SECURED BY KEY OPERATED ALARM SYSTEM. ONLY AUTHORIZED PERSONNEL HAVE KEYS.
3. KEYS TO LOCKABLE STORAGE AREA WILL BE PROVIDED TO AUTHORIZED, TRAINED PERSONNEL ONLY.
4. BUILDING IS STEEL I-BEAM CONSTRUCTION WITH REINFORCED CONCRETE FLOOR SLABS.
5. IDENTIFICATION BADGES WILL BE PROVIDED TO AUTHORIZED PERSONNEL AS REQUIRED.

STO.

STO.

UP

Also Available On  
Aperture Card

TI  
APERTURE  
CARD

8506110649-01

Charles H. Quandt Associates, Inc.

474 North Centre St. · Pottsville, Pa. 17171 622 4055

Date  
1-7-85  
Scale  
1/8" = 1'-0"  
Drawn  
D.L.R.  
Chk  
JPK

GROUND FLOOR  
PLAN

Draw No.

SK-1

OR PLAN

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

WILLIAM WITMAN

of

CHARLES H. QUANDEL ASSOCIATES, INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

## Radiological Safety

- |  |   |
|--|---|
| 1. Principles and practices of radiation protection.                               | 5. Radioactivity measurement standardization and monitoring techniques and instruments. |
| 2. Leak testing procedures.  | 6. Accident and incident procedures.  |
| 3. Mathematics and calculations basic to the use and measurement of radioactivity. | 7. Procedures for nuclear gauge storage and transportation.                             |
| 4. Biological effects of radiation.  | 8. General safety precautions.  |

## Gauge Operation

- |                         |                      |
|-------------------------|----------------------|
| 1. Instrument theory    | 4. Field application |
| 2. Operating procedures | 5. Gauge calibration |
| 3. Maintenance          |                      |

*Harry D. Dumbrey*  
INSTRUCTOR

11/15/84  
DATE

W.F. TROXLER  
PRESIDENT

No 8531



# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JOHN K. SCHNEIDER

of

CHARLES H. QUANDEL ASSOCIATES, INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

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## Gauge Operation

- |                         |                      |
|-------------------------|----------------------|
| 1. Instrument theory    | 4. Field application |
| 2. Operating procedures | 5. Gauge calibration |
| 3. Maintenance          |                      |

Henry D. Duncanson  
INSTRUCTOR

11/15/84  
DATE

W.F. TROXLER  
PRESIDENT

No 8530



# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

KURT H. BLAZER

of

CHARLES H. QUANDEJ. ASSOCIATES, INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

## Radiological Safety

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## Gauge Operation

- |                         |                      |
|-------------------------|----------------------|
| 1. Instrument theory    | 4. Field application |
| 2. Operating procedures | 5. Gauge calibration |
| 3. Maintenance          |                      |

Harvey Deen  
INSTRUCTOR

11/15/84

DATE

W.F. TROXLER

PRESIDENT

No 8532

BETWEEN: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Charles H. Quandt Associates, Inc.

Application Dated: 1/2/85

Control No.: 03466

License No.: New

2. FEE ATTACHED

Amount: \$ 230.00

Check No.: 5099

3. COMMENTS

Signed Brenda Platchek

Date 2/26/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3P \$230

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

Amendment                     

Renewal                     

License                     ✓                    

Signed Frances Brown

Date 3/4/85

82  
3/6/85