

<b>NRC Form 313 I</b> (12-81) 10 CFR 30		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>		<b>1. APPLICATION FOR:</b> <i>(Check and/or complete as appropriate)</i>	
<b>APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL</b>				<input type="checkbox"/> a. NEW LICENSE	
<i>See attached instructions for details.</i>  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.				<input type="checkbox"/> b. AMENDMENT TO: LICENSE NUMBER	
				<input checked="" type="checkbox"/> c. RENEWAL OF: LICENSE NUMBER 40-19101-01	
<b>2. APPLICANT'S NAME</b> <i>(Institution, firm, person, etc.)</i>  T & R Electric Supply Co., Inc.  TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 605-534-3555			<b>3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION</b> Jeffrey D. Jung, Chemist  TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 605-534-3555 Ext. 122		
<b>4. APPLICANT'S MAILING ADDRESS</b> <i>(Include Zip Code)</i> <i>(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)</i> T & R Service Company P. O. Box 197 Colman, SD 57017			<b>5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED</b> <i>(Include Zip Code)</i> T & R Service Company West Highway 34 Colman, SD 57017		
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)					
<b>6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL</b> <i>(See Items 16 and 17 for required training and experience of each individual named below)</i>					
FULL NAME		TITLE		RECEIVED BY LEMB	
a. Jeffrey D. Jung		Chemist		Date... 6/25/84 June 5th Brown	
b. James A. Thompson		Electrical Engineer			
c. Kent Miller		Chief Engineer			
<b>7. RADIATION PROTECTION OFFICER</b>  Jeffrey D. Jung		Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.  Action Compl. 6/27/84			
<b>8. LICENSED MATERIAL</b>					
LINE NO.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i>	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME	
NO.	A	B	C	D	
(1)	Nickel 63	Sealed Source	Hewlett Packard No. 18803-69520	15 Millicuries	
(2)					
(3)				Application Check # 001568 #230 Renewal 6/25/84 Brown	
(4)					
DESCRIBE USE OF LICENSED MATERIAL E				Date Recd. 6/25/84 Received by Brown	
(1)	To be used in an electron capture detector or a gas chromatograph.				
(2)					
(3)	B604110115 B60131 REG4 LIC30 40-19101-01 PDR				
(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)	Source Housing	Hewlett Packard	5840-A
(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)	N/A	N/A	N/A	N/A	N/A	N/A
(2)						
(3)						
(4)						

### 11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

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

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input type="checkbox"/> (1) FILM BADGE  <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)  <input type="checkbox"/> (3) OTHER (Specify): <u>N/A</u>  	N/A	<input type="checkbox"/> MONTHLY  <input type="checkbox"/> QUARTERLY  <input type="checkbox"/> OTHER (Specify): <u>N/A</u>

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

- ☒ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.
- ☐ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
- ☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
- ☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

### 14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED  
N/A

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.

Return detector to supplier, Hewlett Packard Co., Rt. 41, Avondale, PA 19311

# 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)*

\$230.00

b. CERTIFYING OFFICIAL *(Signature)*

c. NAME *(Type or print)*  
Jeffrey D. Jung

(1) LICENSE FEE CATEGORY: N/A

d. TITLE  
Laboratory Director

(2) LICENSE FEE ENCLOSED: \$ 230.00

e. DATE

13a. Description - "The detector effluent gas will be piped into a fume hood or otherwise vented in compliance with the latest revision of 10CFR Part 20."

15, 16, 17. Resume - Both James Thompson, Jr. and Kent Miller are graduates from an ECPD associated school of engineering and technology and hold Bachelor of Science degrees in Electrical Engineering. Kent Miller is a registered Professional Engineer (Registration #3476, E. E., South Dakota) and Jim Thompson, Jr. is a registered Engineer in Training (Registration #E-2348, South Dakota). Jeffrey Jung has a Bachelors degree in Chemistry and a Masters degree in Analytical Chemistry. He has five years of experience in working with gas chromatographs and electron capture detectors.

An Instruction Manual with manufacturer's recommendations is provided. Each user will read and adhere to the operating and safety sections of this manual.



Call Toll Free 800-843-7994  
(In S.D.) 800-952-3953  
(Outside U.S.) 605-534-3555  
TWX 910-668-0350

"THE TRANSFORMER PEOPLE"

June 3, 1985

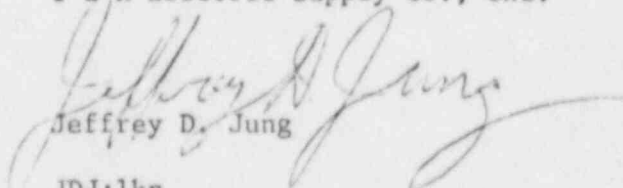
Director, Division of Fuel Cycle & Material Safety  
U.S. Nuclear Regulatory Commission  
Region IV, Material Radiation Protection Section  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 76011

NRC License #40-19101-01  
RE: Personnel Monitoring Reports for 1984

Gentlemen:

Personnel monitoring is not required by our license.

Sincerely,  
T & R Electric Supply Co., Inc.

  
Jeffrey D. Jung

JDJ:1kn

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1p.