

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>	
<b>APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL</b>				<input checked="" type="checkbox"/>	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.				<input type="checkbox"/>	b. AMENDMENT TO: LICENSE NUMBER
				<input type="checkbox"/>	c. RENEWAL OF: LICENSE NUMBER <u>W&amp;L 23546</u>
2. APPLICANT'S NAME <i>(Institution, firm, person, etc.)</i>  <u>PARKS-PIONEER CORPORATION</u> TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION <u>414-871-0860</u>			3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION <u>Michael Parks Secretary/Treasurer</u> TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION <u>Same</u>		
4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i> <i>(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)</i>  <u>4320 N. 35th Street</u> <u>Milwaukee, WI 53216</u>			5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i>  <u>4250 N. 35th Street</u> <u>Milwaukee, WI 53216</u>		
(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. <u>Michael Parks</u>			<u>Secretary/Treasurer</u>		
b. <u>Darryl Reinick</u>			<u>Quality Control Supervisor</u>		
c.					
7. RADIATION PROTECTION OFFICER  <u>Darryl Reinick</u>			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					
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	
A	B	C	D		
(1)	<u>Cd-109</u>	<u>Elemental Cd</u>	<u>IPL No. XFB</u>	<u>3sources of 8mCi ea.</u>	
(2)	<u>Am-241</u>	<u>Americium Oxide</u>	<u>IPL No. GFS</u>	<u>3sources of 8mCi ea.</u>	
(3)					
(4)	<u>8509170070 850816</u> <u>REG3 LIC30</u> <u>48-23546-01 PDR</u>				
E					
DESCRIBE USE OF LICENSED MATERIAL  (1) <u>The device is to be used in a KEVEX Energy Dispersive X-Ray Analyzer</u> (2) <u>to provide a source of x-ray energy to fluoresce x-rays from a sample</u> (3) <u>for the purpose of alloy sorting and identification and for quantitative chemical analysis.</u> <u>Model 202</u> (4) <u>19097</u>					

### 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	KEVEX Corporation	0202
(2)	Source Housing	KEVEX Corporation	0202
(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)	NONE					
(2)						
(3)						
(4)						

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

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY	<input type="checkbox"/> b. CALIBRATED BY APPLICANT <i>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</i>
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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): _____ _____	Radiation Detection Company 162 Wolfe Road Sunnyvale, CA 94088 408-735-8700	<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).)

- ☐ 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. See attached sheet  
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

### 14. WASTE DISPOSAL

- a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED  
**Not applicable**
- 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.
- Disposal of source will be provided by KEVEX Corporation



## Additional Information for NRC - 313-I

### 13. Facilities and Equipment

This unit will become an integral part of our in-house laboratory. Our Lab is located in an 800 square foot office area which is attached to an 8,000 square foot receiving area. Access to the laboratory is through the main office entrance. There is one exit leading to the receiving area. The KEVEX unit will be put in a room where traffic flow is restricted.

After business hours the building is secured with a monitored burglar alarm. We also employ a security guard service for after hours surveillance of our premises.

### 15. Radiation Protection Program

- a) Sources will be kept installed in instrument at all times except when removed by manufacturer's service engineer. If removed, the source will be kept in a locked cabinet marked "CAUTION-RADIOACTIVE MATERIAL". The instrument the source is installed in will be clearly marked the same way with approved labeling.
- b) The Radiation Protection Officer will maintain all records of area monitoring and film badge exposures. The RPO will safeguard and not open any box containing a source delivered to the site. The manufacturer's service engineer will open the package, install the source and perform initial radiation survey. He will also perform all service, repairs, or replacement of the source and will be responsible for the disposal of spent devices.
- c) Leak tests will be performed semi-annually by the manufacturer's service engineer using analysis performed by the Radiation Detection Company of Sunnyvale, California.

### 16. Formal Training in Radiation Safety

&

17.

Both persons have no prior experience with radiation. The persons will read the "Radiation Safety Guide" published by KEVEX and all Operators Manuals. KEVEX personnel will provide orientation program covering Items 16 a-d upon installation of system at our site.

Darryl Reinick is in pursuit of a college degree in Chemistry.

# 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.

Applicant. *July 7th*

Check No. *820151104120*

Amount Paid *3496*

## 18. CERTIFICATE

*(This item must be completed by applicant)*

Date Check Recd. *30 April 1985*

Received By *CP*

*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)*

*Michael Parks*

c. NAME *(Type or print)*

**Michael Parks**

(1) LICENSE FEE CATEGORY:

**3L**

d. TITLE

**Secretary/Treasurer**

(2) LICENSE FEE ENCLOSED: \$

**110.00**

e. DATE

**July 11, 1985**

**19097**