| NRC FORM 313 U.S. NUCLEAR REGULATORY COMMISSION<br>10-2005)<br>10 CFR 30, 32, 33.   | APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2008<br>Estimated burden per response to comply with this mandatory collection request: 4.4<br>hours. Submittal of the application is necessary to determine that the applicant is  |
|---|---|
| 10 CFR 30, 32, 33,<br>14, 35, 36, 39, and 40  | qualified and that adequate procedures exist to protect the public health and safety<br>Send comments regarding burden estimate to the Records and FOIA/Privacy Services<br>Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001<br>or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office or      |
| APPLICATION FOR MATERIAL LICENSE  | Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Managemen<br>and Budget, Washington, DC 20503. If a means used to impose an information<br>collection does not display a currently valid OMB control number, the NRC may not<br>conduct or sponsor, and a person is not required to respond to, the information<br>collection. |
| NSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GU<br>SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO   | IDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION.<br>THE NRC OFFICE SPECIFIED BELOW.  |
| APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:   | IF YOU ARE LOCATED IN:  |
| DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY<br>OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS<br>U.S. NUCLEAR REGULATORY COMMISSION  | ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND<br>APPLICATIONS TO:  |
| WASHINGTON, DC 20555-0001   | MATERIALS LICENSING BRANCH<br>: U.S. NUCLEAR REGULATORY COMMISSION, REGION III<br>2443 WARRENVILLE ROAD, SUITE 210<br>LISLE, IL. 60532-4352   |
| YOU ARE LOCATED IN:   |   |
| ILABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA,<br>ENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW<br>ERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE<br>SLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR<br>VEST VIRGINIA, SEND APPLICATIONS TO: | ALASKA, ARIZONA, ARKANSAS, CALIFORNIS, COLORADO, HAWAII, IDAHO, KANSAS,<br>LOUISIANA, MONTANA, NEBI-ASKA, NEVALES, NEW MEXICO, NORTH DAKOTA, OKLAHOMA,<br>OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON,<br>OR WYOMING, SEND APPLICATIONS TO:  |
| LICENSING ASSISTANCE TEAM<br>DIVISION OF NUCLEAR MATERIALS SAFETY<br>U.S. NUCLEAR REGULATORY COMMISSION, REGION I<br>475 ALLENDALE ROAD<br>KING OF PRUSSIA, PA 19406-1415   | NUCLEAR MATERIALS LICENSING BRANCH<br>U.S. NUCLEAR REGULATORY COMMISSION, REGION IV<br>611 RYAN PLAZA DRIVE, SUITE 400<br>ARLINGTON, TX 76011-4005  |
| ERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAI<br>IATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICT<br>THIS IS AN APPLICATION FOR (Check appropriate item)   | 2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)   |
| A. NEW LICENSE  | KREHBIEL ENGINEERING, INC.  |
|   | 63 BLAIR AVE.   |
| C RENEWAL OF LICENSE NUMBER 24 - 20495 - 0Z   | CAMDENTON MO 65020  |
| ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED<br>63 BLAIR AVE. CAMDENTON  | A NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION   |
| MO 65020  |   |
|   | (573) 346-5316  |
| UBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMAT   | TION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.  |
| RADIOACTIVE MATERIAL<br>a. Element and mass number; 5. chemical and/or physical form; and c. maiximum amount<br>which will be possessed at any one time.  | 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.   |
| INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR<br>TRAINING EXPERIENCE.  | 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.   |
| FACILITIES AND EQUIPMENT  | 10. RADIATION SAFETY PROGRAM.   |
| WASTE MANAGEMENT  | 12. LICENSE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY ENCLOSED  |
| CERTIFICATION. (Musi be completed by applicant) THE APPLICANT UNDERSTANDS THAT  | TALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING  |
| THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF T<br>CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34,<br>CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.<br>WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A C R  | 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND  |
| ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN IT<br>RTIFYING OFFICER TYPED/PRINTED NAME AND TITLE   | S JURIS DICTION.  |
| DARREN KREHBIEL, PRES.  | film hills 9/10/07  |
|   | USÉONLY   |
| \$  |   |
| DOUED BY  |   |
| PROVED BY DATE  |   |

## ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND PROPOSED USES

| Yes | No | Radioisotope      | Manufacturer or<br>Distributor Model No.  | Quantity  | Use As Listed<br>on SSD<br>Certificate  | Specify Other<br>Uses Not<br>Listed on SSD<br>Certificate                                   |
|-----|----|-------------------|---|---|---|---|
| X   |    | Cesium-137        | Sealed source manufacturer<br>or distributor and model<br>number:<br>TROXLER DWG A-102112<br>Device manufacturer or<br>distributor and model<br>number:<br>TROXLER 3400 | Not to exceed<br>either the<br>maximum<br>activity per<br>source or<br>maximum<br>activity per<br>device as<br>specified in<br>Sealed Source<br>and Device<br>Registration<br>Certificate | Yes A<br>Specific<br>description of<br>the gauge use:<br>TROXLER<br>MODEL<br>3400<br>SERIES   | ♥ Not<br>applicable<br>□ Uses are:<br>(Submit safety<br>analysis<br>supporting safe<br>use) |
| ×   |    | Americium-<br>241 | Sealed source manufacturer<br>or distributor and model<br>number:<br>TROKLER DWG A-102451<br>Device manufacturer or<br>distributor and model<br>number:<br>TROKLER 3400 | Not to exceed<br>either the<br>maximum<br>activity per<br>source or<br>maximum<br>activity per<br>device as<br>specified in<br>Sealed Source<br>and Device<br>Registration<br>Certificate | Yes $\mathbf{P}$<br>Specific<br>description of<br>the gauge use:<br>$\mathbf{TZO \times LER}$<br>Mo DE L<br>3400<br>$\mathbf{SERIES}$ | A Not<br>applicable<br>Uses are:<br>(Submit safety<br>analysis<br>supporting safe<br>use)   |

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| Yes | No | Radioisotope                | Manufacturer or<br>Distributor Model No.  | Quantity  | Use As Listed<br>on SSD<br>Certificate              | Specify Other<br>Uses Not<br>Listed on SSD<br>Certificate   |
|-----|----|-----------------------------|---|---|---|---|
|     | ×  | Californium-<br>252         | Sealed source manufacturer<br>or distributor and model<br>number:<br>Device manufacturer or<br>distributor and model<br>number: | Not to exceed<br>either the<br>maximum<br>activity per<br>source or<br>maximum<br>activity per<br>device as<br>specified in<br>Sealed Source<br>and Device<br>Registration<br>Certificate | Yes  Specific description of the gauge use:         | <ul> <li>Not<br/>applicable</li> <li>Uses are:</li> <li>(Submit safety<br/>analysis<br/>supporting safe<br/>use)</li> </ul> |
|     | X  | Other Isotope<br>(Specify): | Sealed source manufacturer<br>or distributor and model<br>number:<br>Device manufacturer or<br>distributor and model<br>number: | Not to exceed<br>either the<br>maximum<br>activity per<br>source or<br>maximum<br>activity per<br>device as<br>specified in<br>Sealed Source<br>and Device<br>Registration<br>Certificate | Yes<br>Specific<br>description of<br>the gauge use: | <ul> <li>Not<br/>applicable</li> <li>Uses are:</li> <li>(Submit safety<br/>analysis<br/>supporting safe<br/>use)</li> </ul> |

## ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE DISPOSAL

|            | Item No. And Title   | Suggested Response   | Yes  | Alternative<br>Procedures<br>Attached |
|------------|--|--|--|---------------------------------------|
| 7.         | INDIVIDUAL(S)<br>RESPONSIBLE FOR<br>RADIATION SAFETY<br>PROGRAM AND THEIR<br>TRAINING AND<br>EXPERIENCE –<br>RADIATION SAFETY<br>OFFICER | Before obtaining licensed materials, the<br>proposed RSO will have successfully<br>completed one of the training courses<br>described in Criteria in the section entitled<br>"Individual(s) Responsible for Radiation<br>Safety Program and Their Training and<br>Experience – Radiation Safety Officer" in<br>NUREG-1556, Vol. 1, Rev. 1, dated<br>November 2001. | A  | σ                                     |
| <b>8</b> . | TRAINING FOR<br>INDIVIDUALS WORKING<br>IN OR FREQUENTING<br>RESTRICTED AREAS   | Before using licensed materials, authorized<br>users will have successfully completed one of<br>the training course described in Criteria in the<br>section entitled "Training for Individuals<br>Working In or Frequenting Restricted Areas"<br>in NUREG-1556, Vol. 1, Rev 1, dated<br>November 2001.   | X  | 0                                     |
| 9.         | FACILITIES AND<br>EQUIPMENT  | No information needs to be submitted in<br>response to this item; key issues are addressed<br>under "Radiation Safety Program – Public<br>Dose" and "Radiation Safety Program –<br>Operating and Emergency Procedures."  | Separate Item 9<br>Response<br>Need Not Be Submitted<br>With Application |                                       |
| 10.        | RADIATION SAFETY<br>PROGRAM – AUDIT<br>PROGRAM   | The applicant is <i>not</i> required to, and should<br>not, submit its audit program to NRC for<br>review during the licensing phase.  | Need Not Be Submitted<br>With Application                                |                                       |
| 10.        | RADIATION SAFETY<br>PROGRAM –<br>TERMINATION OF<br>ACTIVITIES  | The applicant is <i>not</i> required to submit a response to the termination of activities section during the initial application.<br>However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.  | Need Not Be Submitted<br>With Application                                |                                       |
| 10.        | RADIATION SAFETY<br>PROGRAM – SURVEY<br>INSTRUMENTS  | We will either possess and use, or have access<br>to and use, a radiation survey meter that meets<br>the Criteria in the section entitled "Radiation<br>Safety Program – Instruments" in<br>NUREG-1556, Vol. 1, Rev. 1, dated<br>November 2001.  | ×  |                                       |

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| Item No. And Title  | Suggested Response  | Yes                                       | Alternative<br>Procedures<br>Attached  |
|---|---|---|--|
| 10. RADIATION SAFETY<br>PROGRAM – MATERIAL<br>RECEIPT AND<br>ACCOUNTABILITY   | Physical inventories will be conducted at<br>intervals not to exceed 6 months, to account<br>for all sealed sources and devices received<br>and possessed under the license.  | <b>风</b>                                  | o  |
| 10. RADIATION SAFETY<br>PROGRAM –<br>OCCUPATIONAL<br>DOSIMETRY                | Either we will maintain, for inspection by<br>NRC, documentation demonstrating that<br>unmonitored individuals are not likely to<br>receive a radiation dose in excess of<br>10 percent of the allowable limits in<br>10 CFR Part 20, or we will provide dosimetry<br>processed and evaluated by an<br>NVLAP-approved processor that is<br>exchanged at a frequency recommended by<br>the processor.  | X   |  |
| 10. RADIATION SAFETY<br>PROGRAM – PUBLIC<br>DOSE                              | The applicant is <i>not</i> required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.   | Need Not Be Submitted<br>With Application |  |
| 10. RADIATION SAFETY<br>PROGRAM –<br>OPERATING AND<br>EMERGENCY<br>PROCEDURES | We will implement and maintain the operating<br>and emergency procedures in Appendix H of<br>NUREG-1556, Vol. 1, Rev. 1, dated<br>November 2001, and provide copies of these<br>procedures to all gauge users and at each job<br>site.  | X   | ٥  |
|   | OR<br>Operating and emergency procedures will be<br>developed, implemented, and maintained and<br>will meet the criteria in the section entitled<br>"Radiation Safety Program – Operating and<br>Emergency Procedures" in NUREG-1556,<br>Vol. 1, Rev. 1, dated November 2001.   | D   |  |
| 10. RADIATION SAFETY<br>PROGRAM – LEAK TEST                                   | Leak tests will be performed at intervals<br>approved by NRC or an Agreement Sate and<br>specified in the Sealed Source and Device<br>Registration Sheet. Leak tests will be<br>performed by an organization authorized by<br>NRC or an Agreement State to provide leak<br>testing services for other licensees or using a<br>leak test kit supplied by an organization<br>authorized by NRC or an Agreement State to<br>provide leak test kits to other licensees and<br>according to the kit supplier's instructions. | ×   | The<br>information in<br>Appendix J<br>supporting a<br>request to<br>perform leak<br>testing and<br>sample<br>analysis is<br>attached. |

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| Item No. And Title                                       | Suggested Response  | Yes  | Alternative<br>Procedures<br>Attached  |
|--|---|--|--|
| 10. RADIATION SAFETY<br>PROGRAM –<br>MAINTENANCE         | Routine Cleaning and Lubrication<br>We will implement and maintain procedures<br>for routine maintenance of our gauges<br>according to each manufacturer's<br>recommendations and instructions.<br>Non-Routine Maintenance                            | ×  | D  |
|  | We will send the gauge to the manufacturer or<br>other person authorized by NRC or an<br>Agreement State to perform non-routine<br>maintenance or repair operations that require<br>the removal of the source or source rod from<br>the gauge.        | <u></u>  | The<br>information<br>listed in<br>Appendix G<br>supporting a<br>request to<br>perform<br>non-routine<br>maintenance<br>in-house is<br>attached. |
| 10.RADIATION SAFETY<br>PROGRAM –<br>TRANSPORTATION       | The applicant is <i>not</i> required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.   | Need Not Be Submitted<br>With Application<br>Need Not Be Submitted<br>With Application |  |
| 11. WASTE MANAGEMENT –<br>GAUGE DISPOSAL AND<br>TRANSFER | The applicant is <i>not</i> required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program. |  |  |





MATERIALS LICENSING BRANCH US NUCLEAR REG. COMM., REGION III 2443 WARRENVILLE RD, SUITE ZIO LISLE, IL

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H.H.H.H.H.H.H.H.H.H.G.P.532-A352