

## ALABAMA DEPARTMENT OF PUBLIC HEALTH APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to Chapter 420-3-26, Rules of State Board of Health, Radiation Control, application is hereby made for a license to receive, possess, use, transfer, or to deliver source material for the activity or activities described.

<p><b>1(a). Name, mailing address of applicant</b> (Institution, firm, persons, etc.)</p>    <p>Telephone No: Area Code (    ) _____</p>	<p><b>1(b). Street address(es) at which radioactive material will be used</b> (if different than 1(a).)</p>    																
<p><b>3. Type of business or occupation</b></p>   	<p><b>4. This is an application for</b> (check and complete appropriate items):</p> <p style="text-align: right;"> <input type="checkbox"/> a. New License  <input type="checkbox"/> b. Amendment to License No. _____  <input type="checkbox"/> c. Renewal of License No. _____         </p>																
<p><b>5. If applicant is an individual, state citizenship</b> _____ <b>Age</b> _____</p>																	
<p><b>6. Describe the purpose for which source material will be used.</b></p>   																	
<p><b>7. List the type(s), chemical form(s), and quantities of source material you propose to receive, possess, use, or transfer under the license.</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%; text-align: left;">(a) Type</th> <th style="width: 25%; text-align: left;">(b) Chemical Form</th> <th style="width: 25%; text-align: left;">(c) Physical Form (Including % U or Th)</th> <th style="width: 25%; text-align: left;">(d) Maximum Amount At any One Time</th> </tr> </thead> <tbody> <tr> <td>Natural Uranium</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Uranium Depleted in U-235 Isotope</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Thorium</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		(a) Type	(b) Chemical Form	(c) Physical Form (Including % U or Th)	(d) Maximum Amount At any One Time	Natural Uranium				Uranium Depleted in U-235 Isotope				Thorium			
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<p><b>(e) Maximum total quantity of source material you will have on hand at any time (in pounds)</b></p>																	
<p><b>8. Describe the chemical, physical, metallurgical, or nuclear process</b> or processes in which the source material will be used, indicating the maximum amount of source material involved in each process at any one time, and providing a thorough evaluation of the potential hazards associated with each step of those operations.</p>   																	
<p><b>9. Describe the minimum technical qualifications</b>, including training and experience, that will be required of applicant's supervisory personnel including person responsible for the radiation safety program (or of applicant, if applicant is an individual).</p>   																	

**10. Describe the equipment** and facilities which will be used to protect health and minimize danger to life or property and relate the use of the equipment and facilities to the operations listed in Item 8. Include:

(a) Radiation detection and related instruments (including film badges, dosimeters, counters, air monitoring and other survey equipment as appropriate). The description of radiation detection instruments should include the type of radiation detected, and the ranges of each instrument.

(b) Method, frequency and standards used in calibrating instruments listed in (a) above (for film badges, specify method of calibrating and processing, or name supplier).

(c) Ventilation equipment which will be used in operations which produce dust, fumes, mists, gasses, etc.

**11. Describe proposed procedures to protect health** and minimize danger to life and property, and relate these procedures to the operations listed in Item 8. Include:

(a) Procedures for the use of nuclear materials and safety features and procedures to avoid non-nuclear accidents, such as fire, explosion, etc., in source material storage and processing areas.

(b) Emergency procedures in the event of accidents which might involve source material.

(c) Detailed description of radiation survey program and procedures.

**12. Waste products** If no waste products will be generated, state "None" below. If waste products will be generated, use a supplemental sheet to explain:

(a) The quantity and type of radioactive waste that will be generated; and

(b) Detailed procedures for waste disposal.

**13. If products for distribution to the general public under an exemption** are to be manufactured, use a supplemental sheet to furnish a detailed description of the product, including:

(a) Percent of source material in the product, and its location in the product.

(b) Physical description of the product, including characteristics, if any, that will prevent inhalation or ingestion of source material that might be separated from the product.

(c) Beta, and beta plus gamma radiation levels (specify instrument used, date of calibration and calibration technique used **at the surface of the product and at 12 inches**).

(d) Method of assuring that source material cannot be disassociated from the manufactured product.

**14. Certification: The applicant and any official executing this certificate on behalf of the applicant named in Item 1, certifies that this application is prepared in conformity with Chapter 420-3-26, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.**

\_\_\_\_\_  
Signature of Certifying Official

\_\_\_\_\_  
Printed Name and Title of Certifying Official

\_\_\_\_\_  
Date