

Do not use the following checklist to write your application. The following checklist is to help you verify that you have included the information necessary for your radioactive materials application before you upload the document. There are specific details in the guidance document not included in the checklist that are applicable to the application. If the checklist is used to write the application, your application's processing may be delayed.

The checklist is a high-level overview and does not necessarily include specific details for each item. It is meant to ensure only that you addressed each item necessary for the application. Details are discussed and provided for each individual item in the guidance document. The guidance document should have been used to write the application because it includes the details of what information is necessary to determine that the licensed materials will be used safely and will be properly secured. The checklist will help you to review your application to make sure that you have not forgotten to submit information regarding an item for the application.

Using the checklist, please review your application. When you have verified that you have included the information requested for an application, please proceed and follow the instructions to upload your application through the application portal and pay the application fee. Your application is not complete until the application is uploaded **AND** the fee is paid.

For future applications and payments, please make note of the following:

Renewal applications must be received by the DWMRC at least 30 days prior to the expiration date listed on the license. If not, your license may expire and you may be required to store or dispose of your radioactive materials until you can be issued a new radioactive materials license.

Annual fees are due each year on the month and day stated in the expiration date. If the license expires on March 31, 2025, an annual fee would be due on March 31, 2021, March 31, 2022, and so on. For this example, there would be no annual fee required on March 31, 2025 since a renewal is due that year.

If you have questions, please feel free to contact a member of the Radioactive Materials Section at 801-536-0200.

Checklist for Self-Shielded Irradiator Radioactive Material License Application

Items 1 through 4: Locations & Responsible Individuals

Item No. and Title	Suggested Response	
Item 1: License Action Type	<p>You clearly stated what type of action you are requesting and provided the license number if the request involves an existing radioactive materials license:</p> <ul style="list-style-type: none"> • A NEW LICENSE application; • An AMENDMENT (change) to one or more item(s) of an existing license. [Information for only the item(s) being changed are required to be submitted;] <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • A LICENSE RENEWAL Application for an existing Radioactive Materials License. [MUST BE RECEIVED by DWMRC at least 30 days prior to expiration date stated on license]. 	<p>[]</p> <p>[]</p> <p>[]</p>
Item 2: Name and Mailing Address of Applicant	<ul style="list-style-type: none"> • The legal name of applicant as registered with the UT Division of Corporations and Commercial Code is on the request. If operating under a "Doing Business As" company, the corporation's name and the DBA name is provided: Example: ABC, Inc. DBA Company Operating Name" • Full Mailing Address for applicant, including zip code, is provided. • If separate Billing Address is necessary, Billing Address is provided. 	<p>[]</p> <p>[]</p> <p>[]</p>
Item 3: Address(es) Where Licensed Materials Will be Used or Possessed	<ul style="list-style-type: none"> • <u>All</u> "Location of Use" physical address(es) or location description(s)* (3 mi W of Power Plant on Hwy 10, City, UT) are provided. Information showing or describing exact location of licensed materials are marked as protected [Sensitive-Security Related Information Protected Under 63G-2-201(3)(b)]. • Indication of use of devices at temporary job sites was provided. <p>* P.O. Boxes are not accepted for locations of use. Locations of Use are locations where materials are stored, used, prepared, etc excluding temporary job sites.</p>	<p>[]</p> <p>[]</p> <p>[]</p>
Item 4: Person(s) to be Contacted About the Application	<p>Name of Individual(s) to contact for additional information for the application or clarification are provided</p> <ul style="list-style-type: none"> • <u>Contact information for the named individual(s) provided –</u> Telephone numbers (cell & office), email address(es) • A completed Delegation of Authority Form for each individual who is not a member of management but who is authorized to act on behalf of the applicant/licensee was provided. 	<p>[]</p> <p>[]</p> <p>[]</p>

Items 5 & 6: Materials to Be Possessed and Proposed Uses

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Cesium-137	<p>Each of the following requested sealed sources, devices, and source/device combinations is the subject of an approved SSD registration certificate number(s). State the SSD certificate number(s):</p> <p>Sealed source manufacturer's or distributor's name and model number: _____</p> <p>Device manufacturer's or distributor's name and model number: _____</p>	<p>TBq (Ci) per source and maximum possession limit (based on number of sources requested):</p> <p>TBq (Ci) total</p> <p>Not to exceed either the maximum activity per source or maximum activity per device as specified in SSD registration certificate</p>		<p>Not applicable</p> <hr/> <p>Uses are:</p> <hr/> <p>(Submit safety analysis, including procedures and training, supporting safe use)</p>

Items 5 & 6: Materials to Be Possessed and Proposed Uses (Continued)

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Cobalt-60	<p>Each of the following requested sealed sources, devices, and source/device combinations is the subject of an approved SSD Registration Certificate numbers. State the SSD certificate number(s):</p> <p>Sealed source manufacturer's or distributor's name and model number: _____</p> <p>Device manufacturer's or distributor's name and model number: _____</p>	<p>TBq (Ci) per source and maximum possession limit (based on number of sources requested): TBq (Ci) total</p> <p>Not to exceed either the maximum activity per source or maximum activity per device as specified in SSD registration certificate</p>		<p>Not applicable</p> <hr/> <p>Uses are:</p> <hr/> <p>(Submit safety analysis, including procedures and training, supporting safe use)</p>

Items 5 & 6: Materials to Be Possessed and Proposed Uses (Continued)						
Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Strontium-90	<p>Each of the following requested sealed sources, devices, and source/device combinations is the subject of an approved SSD Registration Certificate numbers. State the SSD certificate number(s):</p> <p>Sealed source manufacturer's or distributor's name and model number: _____</p> <p>Device manufacturer's or distributor's name and model number: _____</p>	<p>TBq (Ci) per source and maximum possession limit (based on number of sources requested): TBq (Ci) total</p> <p>Not to exceed either the maximum activity per source or maximum activity per device as specified in SSD registration certificate</p>		<p>Not applicable</p> <hr/> <p>Uses are:</p> <hr/> <p>(Submit safety analysis, including procedures and training, supporting safe use)</p>

Items 5 & 6: Materials to Be Possessed and Proposed Uses (Continued)

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Other (specify)	Sealed source manufacturer or distributor name and model number: <hr/> Device manufacturer or distributor name and model number: <hr/> SSD Registration Certificate numbers:	TBq (Ci) per source and maximum possession limit (based on number of sources requested): TBq (Ci) total Not to exceed either the maximum activity per source or maximum activity per device as specified in SSD registration certificate		Not applicable <hr/> Uses are: <hr/> (Submit safety analysis, including procedures and training, supporting safe use)

Items 5 & 6: Materials to Be Possessed and Proposed Uses (Continued)

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
<p align="center">5.2 Financial Assurance and Recordkeeping For Decommissioning</p>	<p>The applicant committed that in accordance with R313-22-35(7), the applicant will maintain drawings and records important to decommissioning and shall transfer these records to a DWMRC, an NRC, or Agreement State licensee before licensed activities are transferred or forward the records to the DWMRC office before the license is terminated.</p> <p align="center">AND</p> <p>If financial assurance is required, the applicant has submitted evidence of financial assurance following the guidance of NUREG 15 , Volume 3, "Consolidated Decommissioning Guidance - Financial Assurance, Recordkeeping, and Timeliness."</p>	<p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p>
<p align="center">6. Purpose for Which Licensed Material Will be Used</p>	<p>The applicant committed that the applicant will not irradiate flammable, corrosive, or explosive materials.</p> <p align="center">AND</p> <p>For all self-shielded irradiators that will be used for the purposes listed on the SSD registration certificate, the applicant commits to the following:</p> <p>If there is only a single irradiator, the applicant commits that the self-shielded irradiator will be used for the purposes described in its SSD registration certificate.</p> <p align="center">OR</p> <p>If there are multiple irradiators, the applicant commits that the self-shielded irradiators will be used for the purposes described in their respective SSD registration certificates.</p> <p align="center">OR</p> <p>For all self-shielded irradiators that will be used for purposes other than those listed on the SSD registration certificate, the applicant specified the purposes that they would be used for and submitted safety analyses, including operating and emergency procedures and training, as necessary, to support safe use. The safety analyses included enough information to demonstrate that irradiation of the proposed items will not compromise the integrity of the source, source shielding, or other components critical to the radiation safety of the device.</p>	<p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p>

Items 5 & 6: Materials to Be Possessed and Proposed Uses (Continued)

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
<p>5.2 Financial Assurance and Recordkeeping For Decommissioning</p>	<p>The applicant committed that in accordance with R313-22-35(7), the applicant will maintain drawings and records important to decommissioning and shall transfer these records to a DWMRC, an NRC, or Agreement State licensee before licensed activities are transferred or forward the records to the DWMRC office before the license is terminated.</p> <p align="center">AND</p> <p>If financial assurance is required, the applicant has submitted evidence of financial assurance following the guidance of NUREG-1757, Volume 3, "Consolidated Decommissioning Guidance - Financial Assurance, Recordkeeping, and Timeliness."</p>	<p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p>
<p>6. Purpose for Which Licensed Material Will Be Used</p>	<p>The applicant committed that the applicant will not irradiate flammable, corrosive, or explosive materials.</p> <p align="center">AND</p> <p>For all self-shielded irradiators that will be used for the purposes listed on the SSD registration certificate, the applicant commits to the following:</p> <p>If there is only a single irradiator, the applicant commits that the self-shielded irradiator will be used for the purposes described in its SSD registration certificate.</p> <p align="center">OR</p> <p>If there are multiple irradiators, the applicant commits that the self-shielded irradiators will be used for the purposes described in their respective SSD registration certificates.</p> <p align="center">OR</p> <p>For all self-shielded irradiators that will be used for purposes other than those listed on the SSD registration certificate, the applicant specified the purposes that they would be used for and submitted safety analyses, including operating and emergency procedures and training, as necessary, to support safe use. The safety analyses included enough information to demonstrate that irradiation of the proposed items will not compromise the integrity of the source, source shielding, or other components critical to the radiation safety of the device.</p>	<p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p>

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
7.0 Radiation Safety Officer (RSO)	<p>The applicant provided the following: Name of the applicant's proposed RSO:</p> <p>The applicant provided documentation demonstrating that the proposed RSO is qualified by training and experience (see training described in Appendix F of the guidance document)</p> <p align="center">OR</p> <p>Name of the applicant's proposed RSO:</p> <p>The applicant provided alternative information demonstrating that the proposed RSO is qualified by training and experience.</p>	<p>[]</p> <p>[]</p> <p>[]</p>	<p>[]</p> <p>[]</p>
7.2 Authorized Users	<p>The applicant provided the following: The applicant provided a commitment that before using licensed materials, authorized users will receive the training described in Appendix F of NUREG 1556, Volume 5, (Current Revision), "Consolidated Guidance About Materials License: Program-Specific Guidance About Self-Shielded Irradiator Licenses."</p> <p align="center">OR</p> <p>The applicant provided alternative information demonstrating that the proposed AUs are qualified by training and experience.</p>	<p>[]</p> <p>[]</p>	<p>[]</p> <p>[]</p>
8.0 Training for Individuals In Restricted Areas	<p>No response is necessary for the applicant's training program. The training program will be examined during DWMRC inspections and should not be submitted in the license application.</p>		<p>No Response is Necessary for the Application</p>
9.0 Facilities and Equipment	<p>The applicant committed to conduct electrical and mechanical safety interlock checks of each irradiator at least quarterly, in accordance with the irradiator's user's manual.</p> <p align="center">AND EITHER</p> <p>The applicant committed to ensure that each area where a self-shielded irradiator is located corresponds to the 'Conditions of Normal Use' and 'Limitations and/or Other Considerations of Use' on the applicable irradiator's Sealed Source and Device registration certificate; the floor beneath the self-shielded irradiator is adequate to support the weight of the irradiator; each self-shielded irradiator is secured to prevent unauthorized</p>	<p>[]</p> <p>[]</p>	<p>[]</p>

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
9.0 Facilities and Equipment)	<p>access or removal; and each area where a self-shielded irradiator is located is equipped with an automatically operated fire-detection and -control system (sprinkler, chemical, or gas) or the location of the area and other controls ensure a low level of radiation risk attributable to fires.</p> <p align="center">OR</p> <p>The applicant provided alternative information; including a justification for placing an irradiator in an area that does not correspond to the "Conditions of Normal Use" and the "Limitations and/or Other Considerations of Use."</p>	<p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p>
<p align="center">SSafety PProgram</p> <p align="center">10.1 Audit and Review of Program</p>	<p>The applicant's program for reviewing the content and implementation of its radiation protection program, access authorization program, and security program will be examined during inspections and should not be submitted with the license application.</p>	<p align="center">No Response is Necessary for the Application</p>	
10.2 Radiation Monitoring Instruments	<p>The applicant has submitted one of the following:</p> <p>The applicant has committed to use instruments that meet the radiation-monitoring instrument specifications published in Appendix I of NUREG-1556, Volume 5, (Current Revision), "Consolidated Guidance About Materials License:Program-Specific Guidance About Self-Shielded Irradiator Licenses." Additionally, the applicant committed that each radiation survey meter will be calibrated by the manufacturer or other person authorized by the DWMRC, the NRC or an Agreement State to perform radiation survey meter calibrations no more than 12 months before the date the meter is used.</p> <p align="center">OR</p> <p>The applicant committed to use instruments that meet the radiation-monitoring instrument specifications published in Appendix of NUREG-1556, Volume 5, (Current Revision), "Consolidated Guidance About Materials License Program-Specific Guidance About Self-Shielded Irradiator Licenses." Additionally, the applicant committed to implement the model radiation survey meter calibration program published in Appendix I of this guidance document, and to ensure that each radiation survey meter will be calibrated no more than 12 months before the date the meter is used.</p>	<p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p>

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
10.0 Radiation Monitoring Instruments (Continued)	<p align="center">OR</p> <p>The applicant provided a description of alternative equipment and procedures for (1) ensuring that interlocks function as required to return moving self-shielded irradiator sources to the shielded position, and (2) determining source shielding integrity after an incident involving the self-shielded irradiator</p>	[]	[]
10.3 Material Receipt and Accountability 10.3.1 Inventory 10.3.2 National Source Tracking System (NSTS)	<p>The applicant committed to develop, implement, and maintain procedures for ensuring accountability of licensed materials at all times.</p> <p align="center">AND</p> <p>The applicant committed that physical inventories will be conducted and documented at intervals not to exceed 6 months to account for all sealed sources and devices received and possessed under the license.</p> <p align="center">AND</p> <p>The applicant has committed to comply with the NSTS reporting requirement as described in R313-15-1206.</p>	[]	
10.4 Occupational Dose	<p>The applicant provided any one of the following:</p> <p>The applicant committed to maintain, for inspection by the DWMRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of the limits in R313-15-502(1).</p> <p align="center">OR</p> <p>The applicant committed to provide and require the use of individual monitoring devices (dosimetry). Additionally, the applicant committed that all personnel dosimeters that require processing to determine the radiation dose will be processed by an NVLAP-accredited processor.</p> <p align="center">OR</p> <p>The applicant provided a description of an alternative method for demonstrating compliance with the referenced regulations.</p>	[]	[]
10.5 Public Dose	No response is required from the applicant in a license application, but documentation demonstrating compliance will be examined during inspection.		No Response Necessary for Application

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
<p>10.6 Operating, Emergency, and Security Procedures</p> <p>10.6.1 Operating, and Emergency Procedures</p>	<p>The applicant submitted the following:</p> <p>A commitment that if the applicant changes their operating, emergency, or security procedures without amending their license, the applicant will ensure that (i) the changes are reviewed and approved by licensee management and the RSO; (ii) affected licensee staff are trained in the procedures before they are implemented; (iii) the changes are consistent with applicable license conditions and the procedures or commitments submitted in the license application; and (iv) the changes do not degrade the safety of the program.</p> <p align="center">AND EITHER</p> <p>The applicant has committed that operating, emergency, and security procedures will be developed, implemented, maintained, and distributed and will meet the criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures" in NUREG-1556, Volume 5, (Current Revision), "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Self-Shielded Irradiator Licenses."</p> <p align="center">OR</p> <p>The applicant has submitted alternative operating and emergency procedures.</p>	<p>[]</p> <p>[]</p> <p>[]</p>	<p>[]</p> <p>[]</p> <p>[]</p>
<p>10.6.2 Security Program for Category 1 and Category 2 Radioactive Material</p>	<p>No response is required from an applicant or licensee. Compliance with access authorization and security program requirements may be reviewed during DWMRC inspections.</p>	<p>No Response necessary for the application</p>	<p>[]</p>
<p>10.7 Leak Tests</p>	<p>The applicant has submitted the following:</p> <p>The applicant has committed that leak tests will be performed at intervals approved by the DWMRC or as specified in the Sealed Source and Device Registration Certificate. The applicant committed that leak tests will be performed by an organization authorized by the DWMRC, the NRC or an Agreement State to provide leak-testing services to other licensees; or by using a leak-test kit supplied by an organization authorized by the DWMRC, the NRC or an Agreement State to provide leak-test kits to other licensees and according to the self-shielded irradiator manufacturer's or distributor's instructions and kit supplier's instructions."</p>	<p>[]</p>	<p>[]</p>

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
<p align="center">10.7 Leak Tests (Continued)</p>	<p align="center">OR</p> <p>The applicant committed that leak testing and analysis will be done by the applicant. The applicant has provided the information in Appendix N of this NUREG supporting a request to perform leak testing and sample analysis and committed that they will either follow the model procedures in Appendix N of NUREG 1556, Volume 5, (Current Revision), "Consolidated Guidance about Materials Licenses: Program-Specific Guidance About Self-Shielded Irradiators" or the applicant has submitted alternative procedures.</p>	<p align="center">[]</p>	<p align="center">[]</p>
<p align="center">10.8 Maintenance</p>	<p>For all maintenance, the applicant has submitted:</p> <p>A commitment to maintain documentation of the use of all non-OEM replacement parts and components. If OEM replacement parts cannot be used for the shielding of any sealed sources, the driving unit of any sources, safety interlocks, or other electrical or mechanical component that could expose the source, reduce the shielding around the source(s), or compromise the radiation safety of the device or any sources, the applicant committed to obtain and document DWMRC or NRC approval before beginning the non-routine maintenance activity. In addition, if a service provider plans to remove any aspect of the Global Threat Reduction Initiative (GTRI) irradiator-hardening hardware, the applicant has committed that they will discuss this matter with the DWMRC before allowing this service to be initiated.</p> <p>For routine maintenance, the applicant submitted one of the following:</p> <p>The applicant committed to implement and maintain procedures for routine maintenance of their self-shielded irradiators according to each manufacturer's or distributor's written recommendations and instructions.</p> <p align="center">OR</p> <p>The applicant submitted alternative procedures for DWMRC's review.</p> <p>For non-routine maintenance, the applicant submitted one of the following:</p> <p>The applicant committed to have the self-shielded irradiator manufacturer, distributor, service provider, or another person authorized by the DWMRC, the NRC or an Agreement State perform non-routine maintenance.</p>	<p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p>	<p align="center">[]</p> <p align="center">[]</p> <p align="center">[]</p>

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Responses	Yes	Alternative Procedures Attached
10.8 Maintenance (Continued)	<p align="center">OR</p> <p>The applicant submitted alternative procedures for the NRC's review addressing the information listed in Appendix O of NUREG-1556, Volume 5, (Current Revision), "Consolidated Guidance about Materials Licenses: Program-Specific Guidance About Self-Shielded Irradiators" or the applicant submitted alternative procedures.</p>	[]	[]
10.9 Transfer and Transportation	<p>No response is needed from the applicant. However, before offering a Type B package for shipment, a licensee needs to have registered with NRC as a user of the package and obtained NRC's or DWMRC's approval of its quality assurance (QA) program. Transportation issues will be reviewed during inspection.</p> <p>If an exemption is needed, the applicant provided the information listed in the "Discussion" portion of Section 8.10.9 of the guidance document.</p>	No Response is Needed for Application	
11.0 Waste Management 11.1 Self-Shielded Irradiator Disposal & Transfer	<p>The applicant does not need to provide a response to this item. However, the licensee should develop, implement, and maintain self-shielded irradiator transfer and waste disposal procedures, including updates to the National Source Tracking system (NSTS), in its radiation safety program.</p>		No Response is Needed for Application