

Application and Review Checklist for SSD Case 13-07

SUMMARY DATA	
Name and Complete Mailing Address of the Applicant: <i>DEPARTMENT OF THE ARMY</i> Name: <i>U.S. ARMY TACOM LCMC</i> Address: <i>AMSTA-BSC-Z</i> <i>WHEELING, MT 48397.</i>	
Name, Title, and Telephone Number of the Individual to Be Contacted If Additional Information or Clarification Is Needed by the NRC: Name: <i>MR. THOMAS GIZICKI</i> Title: <i>SENIOR HEALTH PHYSICIST / RSO.</i> Phone: <i>586-282-0891</i>	
The Applicant is (check one): <input checked="" type="checkbox"/> Custom User <input type="checkbox"/> Manufacturer <input type="checkbox"/> Distributor <input type="checkbox"/> Manufacturer and Distributor	
If the Applicant Is Not the Manufacturer, Provide the Name and Complete Mailing Address of the Manufacturer: Manufacturer: <i>ELCAN OPTICAL TECHNOLOGIES (A Division of) RAYTRON SYSTEMS CANADA LTD.</i> Address: <i>450 LAITZ ROAD, MIDLAND, ONT. CANADA</i> <i>SEILER INSTRUMENTS & MANUFACTURING COMPANY, INC.</i> <i>3433 FOREST CREEK COURT INDUSTRIAL BLVD.</i> <i>ST. LOUIS, MO 63122</i>	
If the Applicant Is a Custom User, Provide the Name and Complete Mailing Address of the Distributor: Distributor: <i>U.S. 300 Principally</i> Address: <i>Department of the Army.</i>	
Provide the Name, Complete Mailing Address, and Function of Other Companies Involved: Name: Address: <i>N/A.</i>	
Model Number:	
Principal Use Code (see Appendix E):	
Name Used by the Industry to Identify the Product (e.g., Radiography Exposure Device, Teletherapy Source, Calibration Source, etc.): <i>MORTAR SIGHT UNIT</i>	
For Use by: <input checked="" type="checkbox"/> Specific Licensees Only <input type="checkbox"/> General Licensees Only <input type="checkbox"/> Both Specific and General Licensees <input type="checkbox"/> Persons Exempt from Licensing	
Leak-Test Frequency: <input type="checkbox"/> Periodic Leak-Testing is Not Required <input checked="" type="checkbox"/> <i>6 Months As specified in the License.</i> <input type="checkbox"/> Attached is justification for a leak test frequency of greater than 6 months	
Principal Section of the 10 CFR that Applies to the User (e.g., General Licensees under 10 CFR 31.5): <i>Specific License.</i>	
Radionuclides and Maximum Activities (including loading tolerance): <i>HYDROGEN-3 (5.79 Curie) MAX.</i>	
CERTIFICATION: THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30 AND 32 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR 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.	
Certifying Officer — Typed Name and Title	
Signature:	
Date:	

CHECKLIST		
Registration Certificate Holder: Model Number:		
DESCRIPTION	OK/DEF	COMMENTS

	1 st Reviewer	2 nd Reviewer	
DESCRIPTION/CONSTRUCTION			
If registration certificate holder is requesting to register more than one source/device on a certificate, are designs similar enough to do so?	N/A.	N/A	
Device/source design with complete engineering drawings (dimensions, tolerances, list of materials)	N/A	N/A	Previously provided by the applicant
Assembly methods (screw, welds, etc.); verify integrity	OK.	✓	Previously reviewed.
Source mounting (size and integrity) and security	OK.	✓	
Is source ANSI classification sufficient (from ANSI N43.6 and ISO 2919):			LT6G C1333443 > ANSI N540. Based on previous reviews.
Choose the ANSI/ISO Classification	OK.	✓	No changes made to the device. Added a new manufacturer and changed the address.
Definition of shutter operation (locked in Off position, not locked in On position), Fail safe, spacing and tolerances	OK.	✓	
On-Off indicators (description, qty., location)			
Safety interlocks, guards, etc. to prevent access to beam or high radiation levels	OK.	✓	Same
Corrosion between unlike materials (e.g., aluminum & steel, depleted uranium & steel, etc.)	OK.	✓	Based on previous reviews.
Shielding efficiency and integrity	OK.	✓	
For medical devices: Was a 510(k) provided? (provide written notification to FDA)	N/A	N/A	
Well logging sources must be nondispersible and non-soluble. (see Appendix B for a list of approved well logging sources as of November 1991)	N/A	N/A	
See "ANSI and Other Standards" list for references for particular source/device designs (e.g. radiography, Brachytherapy, etc.)	OK.	✓	ANSI N540.
LABELING			
Copy of label	OK.	✓	
Materials, dimensions, colors (note on registration certificate if labeling is exempt from the color requirements of 10 CFR Part 20)	N/A.	OK.	
Permanent attachment and location(s) - visible to users?	OK.	✓	
Contents: Model#, Serial#, Isotope, Activity, Manufacturer, Date of Assay, Trefoil, "CAUTION - RADIOACTIVE MATERIAL" (Depleted Uranium information must be included)	OK.	✓	Manufacturer / Entity in Code on the label.
CONDITIONS OF USE			
Expected working life of the source/device (years, operations)	OK.	✓	Not changed from the previous review
Actions to be taken when product reaches end of its working life.	.	✓	Not specified.
Maximum allowable temperature, vibration, shock, corrosion, etc. (during use, handling, storage, and transport)	OK.	✓	
How the device will be used	OK.	✓	Gun/Weapon Site
Meets dose limits of Part 32 for distribution general licensees or persons exempt from licensing	OK.	✓	

CHECKLIST			
Registration Certificate Holder: Model Number:			
DESCRIPTION	OK/DEF		COMMENTS
	1 st Reviewer	2 nd Reviewer	
PROTOTYPE TESTING/HISTORICAL USE			
Tests methods and conditions (for source and device)	OK.	✓	Based on previous test data and A FAT by Sailors INST.
Tests results	OK.	✓	
Years of use (incidents, failures, etc.)	OK.	✓	20 years.
Similarities to other sources/devices if they are used as basis.	N/A	✓	
RADIATION PROFILES			
Survey instrument used (type, window thickness, sensitivity, etc.)	OK.	}	Based on previous review. No
Conditions: including environments, scatter (product in beam), and use of guards and shields			Changes were made to the lenses.
Distance from source/surface (per ANSI 538-1979)			
Shutter Open and Closed/Source Shielded			
Verify radiation surveys for γ radiation meet inv ² law.			
Verify radiation surveys for non- γ radiation have not been calculated using inv ² law.			
QUALITY ASSURANCE			
Materials, subassemblies, services	O.K.	}	Sailor Instruments & Manufacturing
Assembly methods (screws, welding, etc.)			Company provides a QA plan
Dimensions and tolerances	O.K.		& Manual. Army Level FIND
Activity, radiation levels, leak tests	OK		IT ACCEPTABLE.
QA Manual and comparison of manual to Regulatory Guide 6.9	N/A		
INSTALLATION			
Fixed, portable, movable, fixed installation but portable source housing			Movable
Inherent shielding, inaccessibility	N/A	}	
Beam access: size of air gap/opening to beam and use of interlocks, locks, additional shielding or barriers	N/A		
Mounting integrity	O.K.		
SAFETY INSTRUCTIONS			
Operation, maintenance, calibration, damage/failure, specific warnings, leak test, and radiation surveys	O.K.	✓	
ACCOMPANYING DOCUMENTATION			
Leak tests results and radiation surveys		✓	Used for acceptance by the
Transportation documents		✓	previous owners.

CHECKLIST						
Registration Certificate Holder: Model Number:						
DESCRIPTION		OK/DEF		COMMENTS		
		1 st Reviewer	2 nd Reviewer			
Operation, maintenance, calibration, damage/failure, specific warnings, leak test, and radiation survey instructions if applicable		OK.	✓			
For Distribution to General Licensees: Verify NRC Regions and Agreement State listing is up-to-date and copies of all pertinent regulations		N/A	✓			
SERVICING						
The following activities may be performed by the persons indicated:		<div style="border-left: 2px solid black; border-right: 2px solid black; padding: 5px; display: inline-block;"> OK </div>		<i>As specified in the U.S. Army's License and in the SS&O.</i>		
Activity	by a General Licensee				Only by a Specific Licensee	Will be Offered by the Applicant
Installation	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Relocation	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Maintenance	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Repair	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Source Exchange	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Leak Testing	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Radiation Survey	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
FOREIGN VENDORS						
Drop ship						
Who and where is source installed		OK.	✓	<i>By Manufacturer</i>		
Leak test and radiation surveys		OK.	✓			
QA in the U.S.		yes	✓	<i>for the FOR EL CANO & Sider.</i>		

1st Reviewer Signature: U/Mhach

Date: March 01, 2013

2nd Reviewer Signature: [Signature]

Date: March 01, 2013