

## NRC FORM 313

(03-2014)  
10 CFR 30, 32, 33, 34  
35, 36, 37, 39, and 40

## U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR MATERIALS  
LICENSE

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 05/31/2015

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [InfoCollects.Resource@nrc.gov](mailto:InfoCollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. \*AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.

## APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

OFFICE OF FEDERAL & STATE MATERIALS AND  
ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA,  
KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY,  
NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH  
CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

## SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19408-2713

## IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN  
SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH  
DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS,  
UTAH, WASHINGTON, OR WYOMING,

## SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

## 1. THIS IS AN APPLICATION FOR (Check appropriate item)

☐

A. NEW LICENSE

☐

B. AMENDMENT TO LICENSE NUMBER

☒

C. RENEWAL OF LICENSE NUMBER

25-21249-01

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

GOLDEN SUNLIGHT MINES INC.

453 MT Hwy 2 EAST  
WHITEHALL, MT 59759

PUBLIC

☐ Immediate Release  
☒ Normal Release

NON-PUBLIC

## 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

453 MT Hwy 2 EAST  
WHITEHALL, MT 59759

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

JOSEPH M. DILLON

BUSINESS TELEPHONE NUMBER

(406) 287-2068

BUSINESS CELLULAR TELEPHONE NUMBER

BUSINESS EMAIL ADDRESS

jdillon@~~goldensunlight~~ barrick.com☒ Sensitive-Security Related  
☐ A.7 Sensitive Internal  
☐ OtherReviewer: LR Date: 4-27-15

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

## 5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

## 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

## 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

## 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

## 9. FACILITIES AND EQUIPMENT.

## 10. RADIATION SAFETY PROGRAM.

## 11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions\*)  
(See 10 CFR 170 and Section 170.31)

FEE CATEGORY

AMOUNT  
ENCLOSED \$

0

## 13. CERTIFICATION. (Must be completed by applicant) 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, 32, 33, 34, 35, 36, 37, 39, AND 40, 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/PRINTED NAME AND TITLE

DAN BAUGHART - MINE MANAGER

SIGNATURE

DATE

4-1-15

## FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

Items 5 & 6 Materials To Be Processed and Proposed Uses

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Other Uses Not Listed on SSD Certificate
X		Cesium-137  A2101	Sealed source manufacturer or distributor and model number: <u>OHMART SR-2</u> Device manufacturer or distributor and model number: <u>OHMART A2101</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [ X] Specific description of the gauge use: <u>Measure density of slurry flowing through a pipeline</u> _____ _____ _____	[X] Not Applicable
X		Cesium-137  A2102	Sealed source manufacturer or distributor and model number: <u>OHMART SR-1A</u> Device manufacturer or distributor and model number: <u>OHMART A2102</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [ X] Specific description of the gauge use: <u>Measure density of slurry flowing through a pipeline</u> _____ _____ _____	[X] Not Applicable
X		Cesium-137	Sealed source manufacturer or distributor and model number: <u>Ronan SA 8</u> Device manufacturer or distributor and model number: <u>Ronan X90</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [ X] Specific description of the gauge use: <u>Measure density of slurry flowing through a pipeline</u> _____ _____ _____	[X] Not Applicable
X		Cesium-137	Sealed source manufacturer or distributor and model number: <u>Ronan SA 1</u> Device manufacturer or distributor and model number: <u>Ronan X91</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [ X] Specific description of the gauge use: <u>Measure density of slurry flowing through a pipeline</u> _____ _____ _____	[X] Not Applicable

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

Item No. and Title	Response	Yes	Alternative Procedures Attached
<p>7. Individual(s) Responsible for Radiation Safety Program And Their Training And Experience</p> <p>7.1. Radiation Safety Officer</p> <p>Name: <u>Joseph M. Dillon</u></p>	<p>Before obtaining licensed materials, the proposed RSO will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998.</p> <p style="text-align: center;"><b>And</b></p> <p>Before being named as the RSO, future RSOs will have successfully completed the training described in the Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our license.</p>	[X]	[ ]
<p>7. Individual(s) Responsible for Radiation Safety Program And Their Training And Experience</p> <p>7.1. Authorized Users</p>	<p>PROPOSED AUTHORIZED USERS:</p> <p>Before using licensed materials, authorized users will have successfully completed the training described in Criteria section entitled "Authorized Users" in NUREG-1556, Vol. 4, dated October 1998.</p>	[X]	[ ]
9. Facilities and Equipment	We will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment" in NUREG-1556, Vol. 4, dated October 1998	[X]	[ ]
10. Radiation Safety Program – Survey Instruments	<p>We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program – Instruments," in NUREG-1556, Vol. 4, dated August 1998, and <i>one</i> of the following:</p> <p style="padding-left: 40px;">Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations.</p>	[X]	[ ]
10. Radiation Safety Program – Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under license.	[X]	[ ]
10. Radiation Safety Program – Occupational Dosimetry	We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled "Radiation Safety Program – Occupational Dosimetry," in NUREG-1556, Vol. 4, dated October 1998.	[X]	[ ]

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

Item No. and Title	Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program – Operating & Emergency Procedures	Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program o Operating and Emergency Procedures," in NUREG-1556, Vol. 4, dated August 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program – Leak Test	Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Devise Registration Certification. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program – Maintenance	Non-routine maintenance operations	<input type="checkbox"/>	<input checked="" type="checkbox"/> The information listed in Appendix N supporting a request to perform non-routine operations in-house is attached.
10. Radiation Safety Program – Fixed Gauges Used at Temporary Job Sites	This is not applicable to our program. We will not use fixed gauges at temporary jobs.	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/>



10. Radiation Safety Program - Maintenance

REQUEST TO PERFORM NON-ROUTINE OPERATIONS

The types of work, maintenance, cleaning and repair would involve:

Installation, relocation, or alignment of the gauge

Initial radiation survey

Removal of the gauge from service

Replacement and disposal of sealed sources

Occasionally, slurry piping on which density gauges is mounted need to be cleaned or replaced. Process piping may be modified or rerouted requiring gauges to be relocated, eliminated, or an additional one purchased. Also, some corrosive areas require source and detector housings replacement.

The Radiation Safety Officer, Joseph M. Dillon, or personnel with special training will perform the non-routine operations. He has successfully completed an Ohmart Training Course. It included: principles and practices of radiation protection, radioactivity measurement and monitoring, mathematics and calculations, biological effects of radiation, common U.S.N.R.C. regulations, waste disposal, and emergency procedures.

He also received training on use, repair and calibration of the following items:

Radioactive source Cs 137

Model D-3340 16", 10", and 8", Ohmart, Corp., Cincinnati, Ohio and various swab kits

He completed a Basic Training Course on radiation safety and use of CPN portable moisture-density gauges held by CPN Company. The course included: principles and practices of radiation protection, radioactivity measurement standardization and monitoring techniques and instruments, mathematics and calculations basic to the use and measurement of radioactivity, and biological effects of radiation.

While performing any non-routine maintenance, the following procedures will be ensured:

Sources will not be opened or removed from the source housing by the licensee

The source will be secured against unauthorized removal or access

Appropriate labels and signs will be used

An on site survey meter will be used to do a radiation survey of the gauge before non-routine maintenance is performed and after non-routine maintenance is completed. Survey meter meets the criteria in "Radiation Safety Program – Instruments in NUREG 1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about fixed Gauges Licenses,' dated October 1998."

Records of the survey as required by 10 CFR 20.2103 will be maintained for a minimum of three years

Individuals performing non-routine operations on gauges will wear whole body and extremity monitoring devices

No non-manufacturer supplied replacement components, parts, or materials other than those recommended by the manufacturer will be used

Before being returned to routine use, the gauge will be tested to verify that it functions as designed and source integrity is not compromised

The gauge will be mounted according to written instructions provided by the manufacturer. It will be mounted in a location compatible with the "Conditions of Normal Use" and "Limitations and/or Other Considerations of Use" in the certificate of registration issued by NRC. The on-off mechanism (shutter) will always be locked in the off position during non-routine operations. The gauge will not require any modifications to fit in the proposed location.

GOLDEN SUNLIGHT MINE  
453 MT Hwy 2 EAST  
WHITEHALL, MT 59759

RECEIVED

APR 07 2015

DNMS

NUCLEAR MATERIALS LICENSING- BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

4586585



DATE

04/21/2015

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Joseph M. Dillon  
Radiation Safety Officer  
Golden Sunlight Mines, Inc.  
453 Montana Highway 2 East  
Whitehall, Montana 59759

LICENSE NUMBER

25:-21249-01

MAIL CONTROL NUMBER

586585

LICENSING AND/OR TECHNICAL REVIEWER

CH

This is to acknowledge the receipt of your:

☐ LETTER and/or ☒ APPLICATION DATED: 04/01/2015

The initial processing, which included an administrative review, has been performed.

☐ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☒ RENEWAL

- ☐ There were no administrative omissions identified during our initial review.
- ☒ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- ☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV  
U. S. Nuclear Regulatory Commission  
DNMS/NMSB - B  
1600 E. Lamar Boulevard  
Arlington, TX 76011-4511  
(817) 200-1103 or (817) 200-1140

✓4/21



BETWEEN:

Accounts Receivable/Payable  
and  
Regional Licensing Branches

[ FOR ARPB USE ]  
INFORMATION FROM WBL

Program Code: 03120  
Status Code: Pending Renewal  
Fee Category: 3P  
Exp. Date:  
Fee Comments:  
Decom Fin Assur Req: N

## License Fee Worksheet - License Fee Transmittal

### A. REGION

#### 1. APPLICATION ATTACHED

Applicant/Licensee: GOLDEN SUNLIGHT MINES, INC.  
Received Date: 04/07/2015  
Docket Number: 3020096  
Mail Control Number: 586585  
License Number: 25-21249-01  
Action Type: Renewal

#### 2. FEE ATTACHED

Amount: \_\_\_\_\_

Check No.: \_\_\_\_\_

#### 3. COMMENTS

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

*Carl L. Hise*  
*4/21/15*

### B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / / )

1. Fee Category and Amount: \_\_\_\_\_

#### 2. Correct Fee Paid. Application may be processed for:

Amendment: \_\_\_\_\_

Renewal: \_\_\_\_\_

License: \_\_\_\_\_

3. OTHER \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_