

January 2, 2008

Materials Licensing Branch  
US NRC, Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

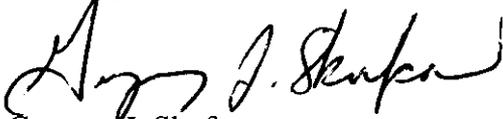
To Whom It May Concern:

Attached you will find an application for a new license. This packet includes the form 313, training and experience for individuals named on the license, additional information as needed and the appropriate fee.

Roberts Putnis is being named as our Radiation Safety Officer. I authorize him to act on the behalf of Hemlock Semiconductor Corporation in matters of radiation safety and to sign future amendments. All correspondence should be sent to his attention and all questions directed to him.

Thank you for your consideration in this matter.

Sincerely,



Gregory J. Skufca  
HSC Site Manager

RECEIVED JAN 08 2008

**AUTHORIZATION FOR PAYMENT  
BY CREDIT CARD**

Estimated burden per response to comply with this voluntary collection request: 5 minutes. Requested information will allow respondents to transfer funds electronically. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0190), 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.

**The NRC is currently accepting credit card payment of fees and other debts. If you wish to pay by credit card, complete the authorization below. If you have any questions, contact NRC's collection service provider, Department of Interior/National Business Center at 303-969-5880.**

NAME OF CARDHOLDER <b>Robert E Putnis</b>		ACCOUNT NUMBER <b>4275330001543033</b>	CARD EXPIRATION DATE <b>11/30/2009</b>
ADDRESS <b>12334 Geddes Rd. , P.O. BOX 80 Hemlock, MI 48626</b>		CARDS ACCEPTED (Check card you are using) <input checked="" type="checkbox"/> VISA <input type="checkbox"/> MASTERCARD <input type="checkbox"/> NOVUS (DISCOVER) <input type="checkbox"/> DINERS CLUB <input type="checkbox"/> AMERICAN EXPRESS <input type="checkbox"/> USA CARD	
TELEPHONE <b>642-5201</b>	LICENSE NUMBER <b>New License</b>	SIGNATURE OF CARDHOLDER <i>Robert Putnis</i>	
INVOICE NUMBER OR DESCRIPTION <b>New License</b>	TOTAL AMOUNT OF TRANSACTION <b>\$1,400.00</b>		

**If you are paying an application or registration fee (including new licenses, amendments, etc.), mail the completed form with your application to the appropriate regional office.**

**For all other payments, send completed form to:**

**U.S. Bank  
U.S. Nuclear Regulatory Commission  
Accounts Receivable Team  
P. O. Box 979051  
St. Louis, MO 63197-9000**

**PRIVACY ACT STATEMENT**

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by Section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the U.S. Nuclear Regulatory Commission (NRC) on NRC Form 629. This information is maintained in a system of records designated as NRC-32 and described at 71 Federal Register 59636 (October 10, 2006), or the most recent Federal Register publication of the NRC's "Republication of Systems of Records Notices" that is located in the NRC's Agencywide Documents Access and Management System.

- AUTHORITY:** 5 U.S.C. 552a(b)(12); 5 U.S.C. 5514; 15 U.S.C. 1681; 26 U.S.C. 6103(m)(2); 31 U.S.C. 37, subchapters I and II; 31 U.S.C. 3701(a)(3); 31 U.S.C. 3711; 31 U.S.C. 3716; 31 U.S.C. 3717; 31 U.S.C. 3718; 31 U.S.C. 3720; 42 U.S.C. 2201; 42 U.S.C. 5841; Cash Management Improvement Act Amendments of 1992 (Pub. L. 102-589); Debt Collection Improvement Act of 1996 (Pub. L. 104-134); 31 CFR Chapter IX, Parts 900-904; 10 CFR Parts 15, 16, 170, 171; Executive Order (E.O.) 9397; E.O. 11222, as amended by E.O.s 11590, 12107, 12565.
- PRINCIPAL PURPOSE(S):** To collect credit card account information and provide authorization for its use to collect a payment or debt.
- ROUTINE USE(S):** Information contained in this system may be disclosed to debt collection contractors or to other Federal agencies for the purpose of collecting and reporting on delinquent debts and to banks enrolled in the Treasury Credit Card Network to collect a payment or debt when the individual has given his or her credit card number for this purpose. Information may be disclosed in accordance with any of the routine uses listed in the Prefatory Statement of General Routine Uses which includes to an appropriate agency in the event the information indicates a violation or potential violation of law; in the course of an administrative or judicial proceeding; to an appropriate agency to the extent relevant and necessary for an NRC decision about you or to the extent relevant and necessary for that agency's decision about you; in the course of discovery under a protective order issued by a court of competent jurisdiction, and in presenting evidence; to a Congressional office to respond to their inquiry made at your request; to NRC-paid experts, consultants, and others under contract with the NRC, on a need-to-know basis; and to appropriate persons and entities for purposes of response and remedial efforts in the event of a suspected or confirmed breach of data from this system of records.
- WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Providing this information is voluntary. However, not providing the requested information will not provide the NRC the information and authorization required to use your credit card to collect a payment or debt.
- SYSTEM MANAGER(S) AND ADDRESS:** Director, Division of Financial Management, Office of the Chief Financial Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

# *Certificate of Completion*

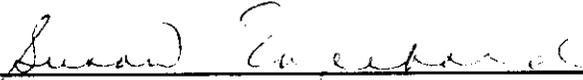
*awarded to*  
***Robert Putnis***

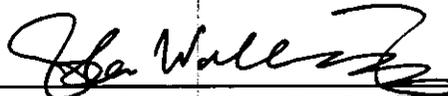
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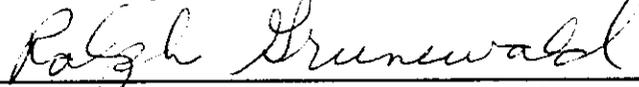
*for participation in*  
Radiation Safety Officer Course – Madison, WI  
October 22-26, 2007

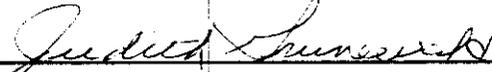


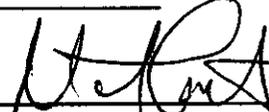
ENGELHARDT & ASSOCIATES, INC.  
RADIATION CONSULTANTS  
6400 Gisholt Dr., Suite, 111 Madison, WI 53713  
Phone: 800.525.3078 Fax: 608.224.0821  
E-mail: engel@chorus.net  
www.radexperts.com

  
Susan J. Engelhardt, M.S.

  
Joshua Walkowicz, M.S., CHP

  
Ralph Grunewald, Ph.D.

  
Judith Grunewald, R.N., M.S.

  
Michael Smith, Health Physics Associate

NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

(4-2004)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

Estimated burden per response to comply with this mandatory collection request: 7 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 Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.

**APPLICATION FOR MATERIAL LICENSE**

**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.**

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

IF YOU ARE LOCATED IN:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

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

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

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

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, 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:

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

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

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 \_\_\_\_\_

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

Roberts Putnis  
Hemlock Semiconductor Corporation  
P.O. Box 80  
Hemlock, MI. 48626

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Hemlock Semiconductor Corporation  
12334 Geddes Rd.  
Hemlock, MI. 48626

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Roberts Putnis

TELEPHONE NUMBER

(989) 642-5201

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.

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

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT ENCLOSED \$ 1,400.00

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, 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

SIGNATURE

Roberts Putnis, Reliability Engineer

*Roberts Putnis*

DATE

01/02/2005

**FOR NRC USE ONLY**

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

**Items 5 and 6: Materials to be Possessed and Proposed Uses**

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	X	Cobalt-60	N/A	N/A	N/A	N/A
	X	Krypton-85	N/A	N/A	N/A	N/A
	X	Strontium-90	N/A	N/A	N/A	N/A
X		Cesium-137	Sealed Sources which have been registered with the NRC or an agreement state.  Ohmart Models SHF1A, SHF1B and SHF2B.	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source Device Registration Certificate	Yes Specific description of the gauge use:  Sealed source fixed gauges are used to measure process control variables such as levels of materials in vessels and tanks	Not applicable
	X	Americium-241	N/A	N/A	N/A	N/A
	X	Other Isotopes	N/A	N/A	N/A	N/A

**Financial Assurance:** Financial Assurance is not required for this facility as inventory quantities are and will be maintained below levels requiring Financial Assurance.

**Quantities of Concern:** We shall assure that we remain below the levels specified in EA 05-090, and if we do exceed those levels we shall notify the NRC and implement the requirements specified by that directive.

**Items 7 through 11: Training and Experience, Facilities and Equipment,  
Radiation Safety Program, and Waste Management**

Item Number and Title	Suggested Response	Applicant's Response
<p>7. Individual(s) Responsible for Radiation Safety Program and their Training and Experience</p> <p>7.1 Radiation Safety Officer (RSO)</p> <p>Name: <u>Roberts Putnis</u></p> <p>7.2 Assistant RSO: <u>Greg Harms</u></p>	<p><b>Training and experience for the RSO is attached.</b></p> <p><b>Before being named as the RSO, future RSOs 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. Within 30 days of naming a new RSO, we will submit the new RSOs name to NRC to include in our license.</b></p> <p>The assistant Radiation Safety Officer shall act only during the physical absence of the Radiation Safety Officer.</p>	<p>Other: Yes</p> <p>See Attachments</p>
<p>7. Individual(s) Responsible for Radiation Safety Program and their Training and Experience</p>	<p><b>Proposed Authorized Users</b></p> <p><b>Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled "Authorized Users" in NUREG-1556, Vol. 4, dated August 1998.</b></p>	<p>Yes</p>
<p>8. Training for Individuals Who in the Course of Employment are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a Year (Occupationally Exposed Workers) and Ancillary Personnel</p>		<p>Need Not Be Submitted with Application</p>
<p>9. Facilities and Equipment</p>	<p><b>We will ensure that the location of each fixed gauge meets the Criteria in section entitled "Facilities and Equipment," in NUREG-1556, Vol. 4, dated October 1998</b></p>	<p>Yes</p>

Item Number and Title	Suggested Response	Applicant's Response
10. Radiation Safety Program - Instruments	<p>We will use instruments that meet the Criteria in section entitled "Facilities and Equipment," in NUREG-1556, Vol. 4, dated August 1998, and:</p> <ul style="list-style-type: none"> <li>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.</li> </ul>	Yes
10. Radiation Safety Program – Material Receipt and Accountability	Physical inventories will be conducted at least every 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license	Yes
10. Radiation Safety Program – Occupational Dosimetry	<p>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, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses", dated October 1998.</p>	Yes
10. Radiation Safety Program – Public Dose	<p>The applicant is not required to submit a response to public dose section during the licensing phase. Documentation demonstrating compliance will be examined during inspection.</p>	Need Not Be Submitted with Application
10. Radiation Safety Program – Operating and Emergency Procedures	<p>Operating and emergency 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, Vol.4, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses", dated October 1998.</p>	Yes

Item Number and Title	Suggested Response	Applicant's Response
10. Radiation Safety Program – Leak Tests	Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed using a kit supplied by an organization authorized by the NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions. Records of leak test results will be maintained.	Yes
10. Radiation Safety Program – Maintenance	<p><b>Routine Maintenance:</b></p> <p>We will implement procedures for routine maintenance of our gauges according to each manufacturer's or distributor's written recommendations and instructions.</p>	Yes
10. Radiation Safety Program – Maintenance	<p><b>Non-Routine Operations:</b></p> <p>Nonroutine operations shall be conducted by the manufacturer or someone else who is specifically licensed to perform those activities.</p>	Not applicable
10. Radiation Safety Program – Transportation		Need Not Be Submitted with Application.
10. Radiation Safety Program – Fixed Gauges at Temporary Job Sites	This is not applicable to our program. We will not use fixed gauges at temporary job sites.	Not Applicable

Item Number and Title	Suggested Response	Applicant's Response
10. Radiation Safety Program – Minimization of Contamination		Need Not Be Submitted with Application.
11. Waste Management – Gauge Disposal & Transfer		Need Not Be Submitted with Application.

**HSC** HEMLOCK  
SEMICONDUCTOR  
CORPORATION

12334 Goddes Rd. • P.O. Box 80 • Hemlock, MI 48626-0080

An ISO 9002 Registered Corporation

PRESORTED FIRST-CLASS

604 605 60532

Pc ID # 4022080104-111836



60532 066

AUTO



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PERMIT # 887

Materials Licensing Branch  
U.S. Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL. 60532-4352

