

## ACCEPTANCE REVIEW MEMO (ARM)

Licensee: SWG dba Earth Systems  
Northwest

License No.: 11-29235-01

Docket No.: 030-037300

Mail Control No.: 471016

Type of Action: New License/New Licensee

Date of Requested Action: 06-15-06

Reviewer  
Assigned:

ARM reviewer(s): Torres

Response	Deficiencies Noted During Acceptance Review
	1. <input checked="" type="checkbox"/> Open ended possession limits. Submit inventory. <u>Limit possession.</u> <input type="checkbox"/> Inform licensee that we are limiting possession limits. <input type="checkbox"/> Ask the licensee if they have any type-amount of EPAct Material.
	2.

Reviewer's Initials: \_\_\_\_\_

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

- ☐ Yes ☐ No Request for unrestricted use for Group 2 or higher category should be transferred by memo to FCDB within 10 days of receipt.
- ☐ Yes ☐ No Decommissioning notification should be completed within 30 days.
- ☐ Yes ☐ No Termination request < 90 days from date of expiration
- ☐ Yes ☐ No Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)
- ☐ Yes ☐ No TAR needed to complete action.

Branch Chief's and/or Sr. HP's Initials: \_\_\_\_\_

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

### SUNSI Screening according to RIS 2005-31

☐ Yes ☒ No **Non-Publicly Available, Sensitive** if any item below is checked

General guidance:

- ☒ RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule
- ☒ Exact location of RAM (whether = or > than Category 3 or not)
- ☒ Design of structure and/or equipment (site specific)
- ☒ Information on nearby facilities
- ☒ Detailed design drawings and/or performance information
- ☒ Emergency planning and/or fire protection systems

Specific guidance for medical, industrial and academic (above Category 3):

- ☒ RAM quantities and inventory
- ☒ Manufacturer's name and model number of sealed sources & devices
- ☒ Site drawings with exact location of RAM, description of facility
- ☒ RAM security program information (locks, alarms, etc.)
- ☒ Emergency Plan specifics (routes to/from RAM, response to security events)
- ☒ Vulnerability/security assessment/accident-safety analysis/risk assess
- ☒ Mailing lists related to security response

Branch Chief's and/or Sr. HP's Initials: \_\_\_\_\_

Date: 7/3/06



**Earth Systems**

Northwest

10623 N. Government Way  
Hayden, ID 83835  
(208) 772-2422  
(877) 608-9400  
FAX (208) 772-7112

*RTN*

June 15, 2006

**RECEIVED**

**JUN 20 2006**

**DNMS**

Nuclear Materials Licensing Section  
US Nuclear Regulatory Commission, Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Subject: New License Application

Enclosed is the completed Application Form NRC 313 as well as the supplemental sheets, providing the required information for SWG, Inc. doing business as "Earth Systems Northwest".

If you have any questions concerning the letter, or if there is additional information you may need, please contact me.

Respectfully submitted,  
**EARTH SYSTEMS NORTHWEST**

A handwritten signature in black ink, reading "Karl A. Harmon".

Karl A. Harmon, PG, PE  
Regional Manager and  
Radiation Safety Officer

KAH/nrm

cc: 2/NRC with Supplemental Sheets  
1/RSO File

471012

## NRC FORM 313

(10-2005)  
10 CFR 30.32, 33,  
34, 35, 36, 39, and 40

## U.S. NUCLEAR REGULATORY COMMISSION

## APPLICATION FOR MATERIAL LICENSE

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2008

Estimated burden per response to comply with this mandatory collection request: 4.4 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 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects@nrc.gov](mailto: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.

**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:

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

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## 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:

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

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:

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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)

SWG, Inc. dba  
Earth Systems Northwest  
10623 N. Government Way  
Hayden, ID 83835

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

Earth Systems Northwest  
10623 N. Government Way  
Hayden, ID 83835

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

Karl A. Harmon

TELEPHONE NUMBER

(208) 772-2422

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

\$ 1,300.00

## 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

Karl A. Harmon, Regional Manager &amp; RSO

SIGNATURE



DATE

06/15/2006

## FOR NRC USE ONLY

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

APPROVED BY

DATE

## SUPPLEMENTAL INFORMATION SHEET FOR NRC FORM 313

This is an information sheet that is supplemental to NRC Form 313 for our application for a new NRC materials license.

5. Radioactive Material

a. Radioisotope	b. Chemical and/or Physical Form	c. Possession Limit
1. Cesium 137/ Americium 241: Be	Sealed Sources (CPN Portable Gauge Model # MC-1 DR-P-82)	1 source pair not to exceed 10mCi Cs-137 and 50mCi Am-241

6. Purpose For Which Licensed Materials Will Be Used

The licensed materials will be used as components of gauges that measure the physical properties of engineering/construction materials, including soils and asphalt. Gauge consists of a CPN Model MC-1, DR-P-82 portable density/moisture surface gauge.

7. Radiation Safety Officer and Individual Users

The Radiation Safety Officer (RSO) will be Karl A. Harmon, who is stationed at the Hayden, Idaho storage location. Mr. Harmon completed the Troxler Electronic Laboratories, Inc. Nuclear manufacturer's training course in 1990. In addition, Mr. Harmon attended a "Radiation Safety Officer Program Seminar" in 1995.

8. Training for Individuals Working In Or Frequenting Restricted Areas

Before using licensed materials, authorized users will have successfully completed the gauge manufacturer's training course described in Criteria in the section entitled "Training for Individuals Working In or Frequently Restricted Areas" in NUREG-1556, Volume 1, Rev. 1, dated November 2001

9. Facilities and Equipment

It is our understanding that no information needs to be submitted in response to this item; key issues are addressed within the "Radiation Safety Program-Public Dose" and "Radiation Safety Program-Operating and Emergency Procedures."

10. Radiation Safety Program

a. Audit Program

It is our understanding the applicant is not required to, and should not; submit its audit program to NRC for review during the licensing phase.

b. Survey Instruments

We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program – Instruments" in NUREG 1556, Volume 1, Rev. 1, dated November 2001.

c. Material Receipt and Accountability

Physical inventories will be conducted at intervals not to exceed 6 months to account for all sealed sources and devices received and possessed under the license.

d. Occupational Dosimetry

Either we will maintain, for inspection by NRC, documentation that unmonitored individuals are not likely to receive a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20, or we will provide dosimetry processed and evaluated by the NVLAP-approved processor that is exchanged at a frequency recommended by the processor.

e. Operating and Emergency Procedures

Operating and emergency procedures will be developed, implemented and maintained, and will meet the criteria in the section entitled "Radiation Safety Program – Operating and Emergency Procedures" in NUREG 1556, Volume 1, Rev. 1, dated November 2001.

f. Leak Tests

Leak tests will be performed at intervals approved by the NRC, and specified in the Sealed Source and Device Registration Sheet. CPN gauges will be leak tested every 6 months. Leak tests will be performed using a leak test kit supplied by an organization authorized by NRC to provide leak test kits to other licensees, and according to the kit supplier's instructions. The leak test analyses will be performed by the kit supplier.

g. Maintenance of Gauges

We will implement and maintain procedures for routine maintenance of our gauges according to manufacturer's recommendations and instructions. We will send the gauge to the manufacturer or other entity authorized by NRC to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.

h. Transportation

Gauges will be transported in accordance with DOT regulations.

11. Waste Management

If waste disposal becomes necessary, the gauges will be returned to the manufacturer, or will be transferred to another specific licensee of the USNRC or an Agreement State.



**Earth Systems**

Northwest

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(208) 772-2422  
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FAX (208) 772-7112

June 15, 2006

Nuclear Materials Licensing Section  
US Nuclear Regulatory Commission, Region IV  
611 Ryan Plaza Drive, Suite 400  
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Karl A. Harmon, PG, PE  
Regional Manager and  
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1/RSO File

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U.S. NUCLEAR REGULATORY COMMISSION

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A NEW LICENSE



B AMENDMENT TO LICENSE NUMBER



C RENEWAL OF LICENSE NUMBER

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10 RADIATION SAFETY PROGRAM

11 WASTE MANAGEMENT

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

FEE CATEGORY 3P

AMOUNT ENCLOSED \$ 1,300.00

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CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Karl A. Harmon, Regional Manager & RSO

SIGNATURE

*Karl A. Harmon*

DATE

06/15/2006

FOR NRC USE ONLY

TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHECK NUMBER COMMENTS

\$

APPROVED BY

DATE

## SUPPLEMENTAL INFORMATION SHEET FOR NRC FORM 313

This is an information sheet that is supplemental to NRC Form 313 for our application for a new NRC materials license.

5. Radioactive Material

**a. Radioisotope**

**b. Chemical and/or  
Physical Form**

**c. Possession Limit**

1. Cesium 137/  
Americium 241: Be

Sealed Sources  
(CPN Portable  
Gauge Model  
# MC-1 DR-P-82)

1 source pair not to exceed  
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h. **Transportation**

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II. **Waste Management**

If waste disposal becomes necessary, the gauges will be returned to the manufacturer, or will be transferred to another specific licensee of the USNRC or an Agreement State.

This is to acknowledge the receipt of your letter/application dated  
6-15-06, and to inform you that the initial processing,  
which includes an administrative review, has been performed.

7-05-06  
DATE

☒ There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card:

---

The action you requested is normally processed within 90 days.

☒ A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 471016.  
When calling to inquire about this action, please refer to this mail control number.  
You may call me at 817-860-8103.

Sincerely,

*Colleen Murahan*  
Licensing Assistant

