

## Roldan, Lizette

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**From:** David Lockwood [davidlockwood@stusserelectricak.com]  
**Sent:** Wednesday, August 08, 2012 12:38 PM  
**To:** Roldan, Lizette  
**Cc:** Hill, Carol  
**Subject:** RE: REQUEST FOR ADDITIONAL INFORMATION REGARDING RENEWAL CONTROL 577051  
**Attachments:** NRC License renewal.pdf; NRC question response.pdf; NRC License & MSDS.pdf

Lizette Roldan,  
Carol Hill,

I have attached NRC form 313 and question attachment for questions 5-11. I have also attached a copy of the MSD sheets and current License. Please let me know if the information I supplied meets your expectations. I am happy to send hard copies if you require. Would you help me with one additional item? I send my quarterly reports via hard copy. Can that be done via e-mail and if so to whom do I send it? I look forward to hearing from you. Thank you for your help.

David Lockwood at Stusser Electric Co.  
907 561-1061

-----Original Message-----

**From:** Roldan, Lizette [mailto:Lizette.Roldan@nrc.gov]  
**Sent:** Monday, July 23, 2012 9:24 AM  
**To:** davidlockwood@stusserelectricak.com  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION REGARDING RENEWAL CONTROL 577051

License No: 50-23255-02  
Docket No.: 030-32753  
Control No.: 577051

Dear Mr. Lockwood:

You have requested to renew NRC License 50-23255-02. In order to continue with our review we need the following information:

1. Please resubmit your renewal using the most recent guidance - NUREG-1556 Volume 16, Program Specific Guidance for Licenses Authorizing Distribution to General Licensees. Chapter 8 explains in detail what information you need to provide to renew your NRC license. You can obtain a copy of the guidance document using the following url:

[http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v16/#\\_1\\_31](http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v16/#_1_31)

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You may submit this information via e-mail as long as you attach all the documents as a PDF. You must submit this information by Wednesday, August 15, 2012.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Lizette Roldan-Otero, Ph.D.  
Health Physicist  
817-200-1596

**STUSSER ELECTRIC CO. 411 E. 54<sup>TH</sup> AVE. ANCHORAGE, AK.99518**

Ph. (907) 561-1061

Fax. (907) 563-8525

E-MAIL [davidlockwood@stusserelectricak.com](mailto:davidlockwood@stusserelectricak.com)

David Lockwood

P.C. 0183

August 7, 2012

To: Lizette Roldan-Otero, Ph. D.

Carol L. Hill

US Nuclear Regulatory Commission

1600 E. Lamar Blvd.

Arlington, TX 76011-4511

Re: License No: 50-23255-02

Docket No. 030-32753

Control No. 577051

Response to questions 5 through 11 on NRC Form 313 Application for Material License.

5. a. Device type is a Self Luminous Exit Sign containing Tritium Gas or Hydrogen 3 contained in a hermetically sealed borosilicate glass tube internally coated with phosphor. The tubes are enclosed in a protective housing.

b. These devices are manufactured by Isolite Corporation, 3563 Sueldo, Suite M. San Luis Obispo, CA. 93401 800-799-5343.

c. The model that we stock is the SLX 60 which comes in 10, 12, 15 and 20 year life.

d. Each device does not exceed 25 curies. The maximum number of signs we carry is 100 new and or 100 for return for disposal for a maximum of 5,000 curies total.

6. Exit signs used for life and safety applications.
7. David Lockwood and Patrick Belanger. Training on the material has been from the Manufacturer and their representative in Alaska. Documentation from the manufacturer and documentation from the NRC as it pertains to these devices.
8. Training for employees who handle these devices is performed annually and for new employees.
9. Our facility is located at 411 E. 54<sup>TH</sup> Ave, Anchorage, AK 99518. 907-561-1061. Special equipment is not required. We do have a storage room that is locked and has all appropriate placards and markings per NRC requirements for the devices.
10. Our radiation safety program meets NRC guidelines for the specific devices in question. The necessary placards and postings are located on the front of our storage room. Directions for what to do in case of a spill are located on the front of the storage room also.
11. All old and returned signs are stored in the designated storage room. The old devices are returned to the Isolite Corporation for disposal and a report on the returned signs is sent to the NRC.



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Carol Hill,

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David Lockwood at Stusser Electric Co.  
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License No: 50-23255-02  
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If you have any questions, please do not hesitate to contact me.

Sincerely,

Lizette Roldan-Otero, Ph.D.  
Health Physicist  
817-200-1596

**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<b>Licensee</b>  1. Consolidated Electric Distributors, Inc. dba Stusser Electric Company  2. 411 East 54th Ave. Anchorage, AK 99518	In accordance with letters dated October 31 and November 06, 2003  3. License number 50-23255-02 is amended in its entirety to read as follows:  4. Expiration date June 30, 2012  5. Docket No. 030-32753 Reference No.	
6. Byproduct, source, and/or special nuclear material  A. Hydrogen 3	7. Chemical and/or physical form  A. Sealed sources installed in (Saunders-Roe Developments, Inc. model Betalux-ETM exit signs or Safety Light Corporation, model SLX-60 exit signs)	8. Maximum amount that licensee may possess at any one time under this license  A. Not to exceed 25 curies per device or 5,000 curies total

## 9. Authorized use

- A. Pursuant to 10 CFR Section 32.51, the licensee is authorized to receive, store, and redistribute exits signs to general licensees as defined by 10 CFR Section 31.5, or equivalent provisions of an Agreement State.

**CONDITIONS**

10. Licensed material shall be used only at the licensee's facilities located at 411 East 54th Avenue, Anchorage, Alaska.
11. Licensed material shall be used by, or under the supervision of David J. Lockwood or Patrick Belanger.
12. The licensee shall assure that each device distributed contains instructions and labels as required by 10 CFR Sections 32.51 and 32.51a. Labels and instructions provided by the manufacturers with the sealed sources and devices shall not be removed or altered by the licensee.
13. The licensee shall maintain transfer records and submit quarterly transfer reports to NRC and Agreement States in accordance with 10 CFR Section 32.52.



**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
50-23255-02Docket or Reference Number  
030-32753

Amendment No. 03

14. The licensee shall conduct a physical inventory every six (6) months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of the inventories shall be maintained for five (5) years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
15. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated March 15, 2002

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date November 06, 2003

By



Anthony D. Gaines, Health Physicist  
Nuclear Materials Licensing Branch  
Region IV  
Arlington, Texas 76011

IDENTITY: Self-Luminous Safety Device containing Tritium light sources

NOTE: blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

### Section I

Manufacturer's Name <b>Safety Light Corporation</b>	Emergency Telephone Number <b>570.784.4344</b>
Address (Number, Street, City, State, and ZIP Code) <b>4150-A Old Berwick Road</b>	Telephone Number for Information <b>570-784-4344 OR 800-888-5483</b>
<b>Bloomsburg, PA 17815</b>	Date Prepared <b>09011999</b>
	Signature of Preparer (optional)

### Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIT TLV	Other Limits Recommended	% (optional)
Radioactive gas (Tritium or ${}^3\text{H}$ ) contained in hermetically sealed borosilicate glass tubes enclosed in protective housing.				
USNRC MPC in air for all forms of ${}^3\text{H}$ in unrestricted areas = $1 \times 10^{-7}$ microCuries $\text{H}^3$ / ml air				

### Section III - Physical/Chemical Characteristics

Boiling Point	-414°F -248°C	Specific Gravity ( $\text{H}_2\text{O} = 1$ )	n/a
Vapor Pressure (mm Hg.)	260mm Hg @ -253°C	Melting Point	n/a
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)	n/a
Solubility in Water	Slightly Soluble		
Appearance and Odor	Sealed (glass) tube in protective housing; Odorless		

### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	n/a n/a	Flammable Limits n/a	LEL n/a	UEL n/a
Extinguishing Media	CO2 or Dry Chemical - Avoid use of water to minimize contamination			
Special Fire Fighting Procedures	Consult in advance: 1) Your Safety Officer, or 2) Your regional USNRC office, or 3) Your State's Radiological Health Dept			
Unusual Fire and Explosion Hazards	Avoid inhalation of air in immediate vicinity of fire			



Stability	Unstable <input type="checkbox"/>	Conditions to Avoid n/a
	Stable <input checked="" type="checkbox"/>	

Incompatibility (Materials to Avoid) n/a
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Hazardous Decomposition or Byproducts ${}^3\text{H}$
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Hazardous Polymerization	May Occur <input type="checkbox"/>	Conditions to Avoid n/a
	Will Not Occur <input checked="" type="checkbox"/>	

#### Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? yes	Skin? yes	Ingestion? yes
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Health Hazards (Acute and Chronic) Over exposure to ionizing radiation can cause cancer
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Carcinogenicity:	NTP? Not Listed	IARC Monographs? Not Listed	OSHA Regulated? No
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Signs and Symptoms of Exposure	n/a
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Medical Conditions Generally Aggravated by Exposure	n/a
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Emergency and First Aid Procedures	Consult: 1) Your Safety Officer, 2) Your Regional USNRC Office, 3) Your State Radiological Health Department
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#### Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled 1-Ventilate area and remove sign to well ventilated area. 2-Wear gloves when handling damaged sign. 3-Remove all personnel from location during 60 minute ventilation period
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Waste Disposal Method Transfer and disposition outlined in 10 CFR 31.5; Call 570-784-4344 or 800-888-5483 for instruction
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Precautions to Be Taken in Handling and Storing Handle and store carefully as with any similar product
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Other Precautions n/a
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#### Section VIII - Control Measures

Respiratory Protection (Specify Type) n/a
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Ventilation	Local Exhaust	normal	Special	n/a
	Mechanical (General)	n/a	Other	n/a

Protective Gloves n/a	Eye Protection n/a
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Other Protective Clothing or Equipment n/a
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Work/Hygienic Practices	Do not disassemble or discard
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## Roldan, Lizette

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**From:** Roldan, Lizette  
**Sent:** Thursday, August 16, 2012 2:25 PM  
**To:** 'David Lockwood'  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION REGARDING RENEWAL CONTROL 577051

Docket: 030-32753  
License: 50-23255-02  
Control: 577051

Dear Mr. Lockwood:

This is in reference to your application dated March 1, 2012 requesting a renewal to Nuclear Regulatory Commission License No. 50-23255-02. In order to continue our review, we need the following additional information:

1. Please provide a statement that: "We will provide quarterly transfer reports in accordance with 10 CFR 32.52(a) and (b)."
2. Please provide a statement that: "We will maintain records in accordance with 10 CFR 32.52(c)."
3. Please provide a statement that: "We will provide information to customers prior to purchase in accordance with 10 CFR 32.51(a) and (b)."

Please note, Appendix L to NUREG 1556, Program Specific Guidance About Licenses Authorizing Distributions to General Licensees, Volume 16, contains guidance specific to Self-Luminous Exit Signs (tritium exit signs) in the form of questions and answers.

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Regulations, Guidance, and Communications**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 6:30 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention and refer to Mail Control No. 577051. You may attach your response as a PDF document via e-mail, or fax it to (817) 200-1188. If you have any technical questions regarding this deficiency letter, please call me at (817) 200-1596.

If we do not receive a reply from you by **August 22, 2012** we will assume that you do not wish to pursue your renewal.

Sincerely,

***Lizette Roldán-Otero, Ph.D.***

Health Physicist  
U.S. Nuclear Regulatory Commission  
1600 E. Lamar Blvd.  
Arlington, TX 76011-4511  
Office: 817-200-1596  
Fax: 817-200-1188



# Hill, Carol

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**From:** David Lockwood  
[davidlockwood@stusserelectricak.com]  
**Sent:** Monday, August 20, 2012 2:38 PM  
**To:** Roldan, Lizette  
**Cc:** Hill, Carol  
**Subject:** Emailing: NRC Response.pdf  
**Attachments:** NRC Response.pdf

Lizette Roldan,

I have attached the required PDF response you requested.  
I am sorry to be so close to your August 22 requested deadline but we had a family emergency and I just returned to my office. I would like to confirm one item.  
It appears that in the information we are to supply to customers a copy of my NRC Materials License is part of the required documentation. Is that correct?  
Please confirm you received our response timely and let me know the answer to my question.  
Thank you for your help.

David Lockwood  
August 20, 2012.

The message is ready to be sent with the following file or link attachments:

NRC Response.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

**STUSSER ELECTRIC CO. 411 E. 54<sup>TH</sup> AVE. ANCHORAGE, AK.99518**

**Ph. (907) 561-1061**

**Fax. (907) 563-8525**

**E-MAIL [davidlockwood@stusserelectricak.com](mailto:davidlockwood@stusserelectricak.com)**

**David Lockwood**

**P.C. 0183**

**August 20, 2012**

**To: Lizette Roldan**

**Subject: Request for additional information regarding renewal control 577051**

**Docket: 030-32753**

**License: 50-23255-02**

**Control: 577051**

**Lizette Roldan please consider this as our timely response to your email of Thursday, August 16, 2012. Below you will see our requested responses for additional information.**

- 1. Stusser Electric will provide quarterly transfer reports in accordance with 10 CFR 32.52(a) and (b)**
- 2. Stusser Electric will maintain records in accordance with 10 CFR 32.52(c).**
- 3. Stusser will provide information to customers prior to purchase in accordance with 10 CFR 32.51(a) and (b).**

**If you have need of any further information please let me know.  
Thank you.**

**David Lockwood.**