

***Advanced Lighting Technologies, Inc.***  
32000 Aurora Road, Solon, Ohio 44139 Phone: (440) 519-0500 Fax: (440) 349-7171

January 18, 2013

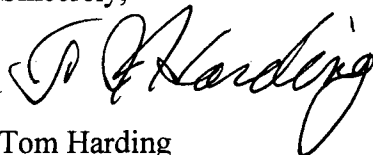
ATTN: Document Control Desk, Director,  
Office of Federal and State Materials and  
Environmental Management Programs,  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

REF: Distribution License Number: 34-26659-02E  
Docket Number: 030-33910

Pursuant to Section 32.16 of 10 CFR 32, enclosed is a copy our material transfer report (Attachment 1). The products reported are transferred for use under 10 CFR 30.15 (a)(8)(iv). The data submitted for this report encompasses the one (1) year since the preceding report on 11 January 2012. The time period covered is from 1 January 2012 through 31 December 2012. Also enclosed (Attachment 2) is a copy of our Materials License for Krypton-85 from the State of Ohio

If you have any questions related to this matter, please contact me at (440) 836-7250.

Sincerely,



Tom Harding  
Radiation Safety Officer

cc. Dennis Miller

US Nuclear Regulatory Commission

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Distribution License Number: 34-26659-02E  
January 18, 2013

**ATTACHMENT 1**

**REPORT OF TRANSFER OF MATERIAL**

- 1. Type and product descriptor of each product or material onto which byproduct material has been introduced during the reporting period**

Metal halide lamps (50 watts-2000 watts)

- 2. The total quantity of each radionuclide introduced into each product type.**

- o Radionuclide:** Krypton-85 gas (mixed with argon gas).
- o Product model:** Metal halide lamps (50 watts-2000 watts)
- o Total Quantity of Radionuclide:** 0.51 Curies

- 3. Number of units of each product transferred during reporting period**

**Product:** Metal halide lamps (50 watts-2000 watts)

**Units transferred:** 2,059,169

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**ATTACHMENT 2**

**MATERIALS LICENSE FOR KRYPTON-85 FROM THE STATE OF OHIO**

# OHIO DEPARTMENT OF HEALTH

## LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as 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 applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. Advanced Lighting Technologies, Inc.	3. 03214180000
2. 32000 Aurora Road Solon, OH 44139	EXPIRATION DATE
	4. August 1, 2015
	5. FILE NUMBER / ID NUMBER 500950 -3875

6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. Krypton-85	A. Gas	A. 925 GBq (25 Ci)
B. Thorium (natural)	B. Thorium iodide (not to exceed 4% by weight) mixed with non-radioactive iodide	B. 0.5 kilograms
C. Thorium (natural)	C. Thorium oxide (not to exceed 4% by weight) alloyed with tungsten oxide	C. 2.0 kilograms

### 9. Authorized Use

- A. To be dispensed into arc tubes which are installed into metal halide lamps incident to exempt distribution.
- B. and C. To be used in the production and commercial distribution of arc tubes for metal halide lamps.

### CONDITIONS

10. Licensed material may only be used at the licensee's facilities located at:
- A. Venture Lighting International, 32000 Aurora Road, Solon OH 44139 or
- B. Advanced Lighting Technologies, Inc., 10295 Phillip Parkway, Streetsboro OH 44241-4040
11. The Radiation Safety Officer for this license is: Tom Harding.
12. The Assistant Radiation Safety Officer for this license is: Dennis Miller.
13. Licensed material shall be used by, or under the supervision of Tom Harding, Dennis Miller or individuals who have completed the training described in the licensee correspondence dated May 19, 2010 that is incorporated with the renewal application dated March 30, 2010. The licensee shall maintain training records of individuals designated as authorized users for five years.
14. The licensee shall conduct a physical inventory every 6 months. Records of inventories shall be maintained for 3 years from the date of each inventory, and shall include the quantities and kinds of licensed material, location of the material, and the date of the inventory.
15. This license does not authorize commercial distribution of licensed material.
16. The licensee is authorized to transport licensed material only in accordance with the provisions of Chapter 3701: 1-50 of the Ohio Administrative Code.
17. The licensee shall not dispose of any item as non-radioactive, including filtration media and fluids having the potential to come into contact with licensed materials, until each item has been surveyed or sampled to assure it does not contain radioactive material.

OHIO DEPARTMENT OF HEALTH  <b>LICENSE FOR RADIOACTIVE MATERIALS</b>  SUPPLEMENTARY SHEET	Page 2 of 2
	License Number: 03214180000
	File Number / ID Number: 500950-3675
	Amendment No. 8

18. 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 Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. *License renewal application dated March 30, 2010, letter dated May 4, 2010 and e-mail correspondence dated May 19, 2010. Amendment 8 renews this license in its entirety.*

For the Ohio Department of Health

DATE:

*6/17/10*

BY:



Robert E. Owen, Chief  
Bureau of Radiation Protection  
on behalf of Director of Health