

Dear Mr. White,

This letter is in response to requests for all material transfer reports for Luxim Corporation for 2014.

Please see below the required information requested.

**1. NRC License Number 04-23924-01E**

**Licensee:**

Luxim Corporation

3542 Bassett St.

Santa Clara, 95054

Contact: Tom O'Halloran (408) 391-0548

2. Luxim currently manufactures quartz light bulbs for high intensity light sources using byproduct material Krypton-85 under the following authorization from the NRC.

*Pursuant to Section 32.14, 10 CFR Part 32, "Specific Domestic licenses to Manufacture or Transfer Certain items containing byproduct material"; the licensee is authorized to distribute electron tubes, containing not more than 30 microcuries of Krypton-85; to persons exempt from licensing pursuant to Section 30.15, 10 CFR Part 30, or equivalent provisions of the regulations of any Agreement State.*

1. Luxim manufactures high intensity light sources bringing clean lighting solutions to general and specialty lighting.

At the heart of the light source is the bulb sub-assembly where a sealed bulb is

embedded in a dielectric material. The dielectric material serves two purposes; first as a waveguide for the RF energy transmitted by the power amplifier circuit and second as an electric field concentrator that focuses energy in the bulb. The energy from the electric field rapidly heats the material in the bulb to a plasma state that emits light of high intensity and full spectrum.

The model numbers are as follows with application:

- A. LIFI INT 30-02, 30-03, 30-04 – all used in instrumentation applications such as medical instruments, inspection systems.
  - B. LIFI STA 40-01, 40-02, STA 40-02B- used in general lighting applications such as parking lights, high bay fixtures and used in architectural lighting applications, and entertainment lighting applications.
  - C. STA 41-01, 02- used in general lighting applications such as parking lights, high bay fixtures and used in architectural lighting
  - D. STA 25-02, - used in general lighting applications such as parking lights, high bay fixtures and used in architectural lighting
2. Krypton-85 in gas form is used in each bulb with an activity level ranging from 113nCi to 1110nCi per bulb. The attached table breaks down the activity for each part number.
3. **A total of 5,253 light sources were shipped to customers during 2014.**

This corresponds to a total activity of approximate **0.0053 Curie** of Krypton-85.

**2014 Luxim Lamp Shipments**

Part Number	Qty Lamps	Activity (nCi) per Lamp	Total Activity / Part Number	
INT 30-02, 30-03, 30-04	471	113	53223	
STA 40-01, STA-40-02	176	900	158400	
STA-41-01, 41-02	4581	1110	5084910	
STA 25-02	25	494	12350	
Total Qty. Lamps	5253	Total Activity	5308883	nCi
			0.005308883	Curie

If you require any other information, please do not hesitate to contact me at (408) 391-0548.

Sincerely yours,

Tom O'Halloran, RSO

*Tom O'Halloran* 3/18/15.

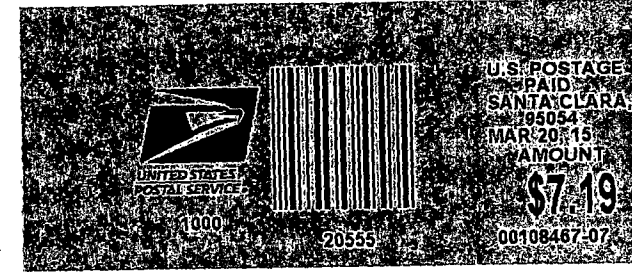
Luxim Corporation

Luxim Corporation  
 3542 Bassett Street  
 Santa Clara, CA 95054

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
 OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL™**



7014 0150 0000 6582 4876



NRC FORM 253 (9-96)		U.S. NUCLEAR REGULATORY COMMISSION		DATE OF REQUEST 3-26-15	CONTROL NUMBER .
<b>MESSENGER/COURIER RECEIPT</b>					
TO: Duncan White		OFFICE NMSS	BUILDING TWFN	ROOM NUMBER 8E18	
FROM: Luxim Corp.		OFFICE ADM	BUILDING OWFN	ROOM NUMBER PI-C10	
DESCRIPTION USPS Certified envelope 7014.0150.0000.6582.4876		<b>MESSENGER/COURIER SIGNATURE</b>			
		MESSENGER/COURIER MEC		DATE RECEIVED 3-26	
				TIME RECEIVED 14:5 pm	
		MESSENGER/COURIER		DATE RECEIVED	
				TIME RECEIVED	
		<b>RECIPIENT'S SIGNATURE</b>			
		RECIPIENT 		DATE RECEIVED 3/26/15	
				TIME RECEIVED 2:20	
SENDER: 1. Complete "DATE OF REQUEST," "TO:," "FROM:," and unclassified "DESCRIPTION" blocks. 2. Obtain MESSENGER/COURIER signature, date received, and time received in first blocks provided. 3. Retain "SENDER'S SUSPENSE COPY."		MESSENGER/COURIER: 1. Deliver package to recipient or next messenger/courier enroute to addressee. 2. Obtain MESSENGER/COURIER or RECIPIENT signature, date received, and time received in the appropriate blocks provided.		RECIPIENT: 1. Provide signature, date received, and time received in the appropriate blocks. 2. Retain RECIPIENT'S COPY. 3. Return original to messenger/courier immediately, who will return it to the sender.	

**RECEIPT  
 STED**

NRC FORM 253 (9-96)

**RECIPIENT'S COPY**