

Re: License Number 04-23924-01E

030-37036

Dear Mr. White,

This letter is in response to requests for all material transfer reports for Luxim Corporation for 2012.

Please see below the required information requested.

1. NRC License Number 04-23924-01E

Licensee:

Luxim Corporation

1171 Borregas Ave,

Sunnyvale, CA. 94089

Contact RSO: Thoa Nguyen (408) 329-5346

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 ENT 30-01, 30-02R – used in entertainment applications such as moving head fixtures.
 - C. 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.
 - D. STA 41-01, 02- used in general lighting applications such as parking lights, high bay fixtures and used in architectural lighting
 - E. PRJ 20-02 - used in instrumentation applications such as medical instruments, inspection systems.
 - F. 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.

Part Number	Activity (nCi) per Lamp
INT 30-02,30-03, 30-04	113
ENT 31-02, 31-02R	113
STA 40-01, STA-40-02	900
STA-41-01, 41-02	1110
PRJ 20-02	113
STA 25-02	494

3. A total of 18,597 light sources were shipped to customers during 2012.

This corresponds to a total activity of approximate 0.010445731 Curie of Krypton-85.

2012 Luxim Lamp Shipments

Part Number	Qty Lamps	Activity (nCi) per Lamp	Total Activity / Part Number	
INT 30-02,30-03, 30-04	634	113	71642	
ENT 31-02, 31-02R	51	113	5763	
STA 40-01, STA-40-02	407	900	366300	
STA-41-01, 41-02	7481	1110	8303910	
PRJ 20-02	8,540	113	965020	
STA 25-02	1484	494	733096	
Total Qty. Lamps	18597	Total Activity	10445731	nCi
			0.010445731	Curie

If you require any other information, please do not hesitate to contact me at (408) 329-5346.

Sincerely yours,

Thoa Nguyen, RSO



Luxim Corporation