

# SAFETY LIGHT CORPORATION

4150-A OLD BERWICK ROAD, BLOOMSBURG, PA 17815  
717-784-4344 FAX 717-784-1402

14 March 1991

U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTN: Mr. Tom Rich

Dear Tom:

In response to your questions in our telephone conversation of 12 March 1991, regarding our amendment of our -09G license, please be advised as follows:

1. Enclosed are the two (2) labels that we discussed. The 2 1/2" X 3 1/2" label is used on the 880-12-6 and is also used on the 2040 and 200 series module. The 1 1/4" X 7" label is used on the outside of SLC's 2040-50 series sign. The label for the SLX-60 will be 7/8" wide by a length that will allow the wording to be the size it is on the 1 1/4" X 7" label.
2. The tube length and the maximum Curies for each particular tube is called out on the assembly drawing. The glass used for the tube is borosilicate. The tube has a proprietary binder introduced to the inside surfaces to which a powdered phosphor is uniformly adhered. To reinforce the adhesion of the phosphor, the tube is then baked. After the tube is necked and hermetically sealed on one end, the tube is then filled with tritium and sealed at the fill end.
3. The assembly instructions for the SLX-60 are as follows: (Ref. Dwg. #2200)
  - a. Pot Tubes (Items 10, 11, 12 & 13) in Tube Tray (Item 9) using RTV.
  - b. Insert the Foam (Items 8 & 9) in Back (Item 2).
  - c. Apply Diffuser (Item 6) to back of Lens (Item 5).
  - d. Apply Legend (Item 4) to front of Lens (Item 5).
  - e. Place Tube Tray (Item 9) in Foam (Item 8).
  - f. Apply tape to Tube Tray (Item 9) and adhesive to lip in Back (Item 2) - when used\* - and insert the Legend, Lens and Diffuser Assembly outlined in Steps 3 & 4 above.
  - g. Assemble Frame to Back sub-assembly.

\*When adhesive is not used, the Legend, Lens & Diffuser Assembly will be ultrasonically staked.

/ . . . . CONTINUED

9603040153 950711  
PDR RC \* PDR  
SSD

A/B

## SAFETY LIGHT CORPORATION

U.S. Nuclear Regulatory Commission  
Mr. Tom Rich  
14 March 1991  
Page 2

4. In accordance with the quality control procedures specified in our 37-00030-08 manufacturing license, Safety Light Corp. personnel are required to conduct the following inspections on 100% of the gaseous tritium light sources manufactured and 100% of the generally licensed devices shipped.
  - a. All sealed gaseous tritium light sources are first subjected to an overnight leak test to determine containment of tritium through the end seals.
  - b. All light sources are then visually inspected to insure minimum acceptable light output.
  - c. Thorough cleaning to remove surface contamination.
  - d. Wipe tests are performed to insure all surface contamination has been removed.
  - e. A percentage of the light sources are measured photometrically to determine brightness range.
  - f. After light sources are assembled into finished generally licensed devices, each device is placed into a leak test chamber to determine containment of tritium.
  - g. Prior to shipment, all generally licensed devices are subjected to final wipe tests in accordance with 49 CFR Part 173.443.
5. The licensing contact at Region I is Betty Ullrich.
6. As discussed with you on 14 March 1991, the SLX-60 series sign shown on Dwg. #2200 for Emergi-Lite, Safety Light Corp. would also like listed as DXT for Light Alarms. The SLX-60 and the DXT will both be distributed at Safety Light Corp. under our -09G license and will be manufactured under the same quality control and manufacturing procedures in our 37-00030-08 license, the only change other than the model number, would be Emergi-Lite being replaced by Light Alarms on the USNRC label as submitted.

*see SLX-60  
+  
folder*

If you have any further questions, please do not hesitate to contact the undersigned.

Regards,  
SAFETY LIGHT CORPORATION

*Larry Harmon*  
Larry Harmon  
Plant Manager

LH:cwl  
enclosures

**ISOLITE®**  
SAFETY LIGHT CORP. BLOOMSBURG, PA.

**CAUTION-RADIOACTIVE MATERIAL**  
CONTAINS CURIES TRITIUM

SERIAL NO. \_\_\_\_\_ MODEL NO. 2040 DATE \_\_\_\_\_

**REMOVAL OF THIS LABEL IS PROHIBITED**

THE RECEIPT, POSSESSION, USE, AND TRANSFER OF THIS DEVICE ARE SUBJECT TO A GENERAL LICENSE OR THE EQUIVALENT AND THE REGULATIONS OF THE U.S. NUCLEAR REGULATORY COMMISSION OR A STATE WITH WHICH THE NRC HAS ENTERED INTO AN AGREEMENT FOR THE EXERCISE OF REGULATORY AUTHORITY.

DO NOT DISMANTLE OR OPEN THIS DEVICE UNLESS SPECIFICALLY LICENSED BY NRC OR AN AGREEMENT STATE.

DO NOT SELL, TRANSFER, ABANDON OR DISPOSE OF THIS DEVICE EXCEPT BY TRANSFER TO PERSONS SPECIFICALLY LICENSED BY NRC OR AN AGREEMENT STATE.

USE OF THIS DEVICE IS PROHIBITED IF THERE IS ANY INDICATION OF FAILURE OF OR DAMAGE TO, CONTAINMENT OF RADIOACTIVE MATERIAL.

LOSS, THEFT, OR TRANSFER OF THIS DEVICE TO ANOTHER LICENSEE, AND FAILURE OR DAMAGE TO SHIELDING OR SOURCE CONTAINMENT MUST BE REPORTED TO NRC OR AGREEMENT STATE.

PENNSYLVANIA CERTIFICATE OF APPROVAL NO. 3998

**ISOLITE®**  
SAFETY LIGHT CORP. BLOOMSBURG, PA.

**CAUTION - RADIOACTIVE MATERIAL**  
CONTAINS CURIES TRITIUM

SERIAL NO. \_\_\_\_\_ MODEL NO. \_\_\_\_\_ DATE \_\_\_\_\_

**REMOVAL OF THIS LABEL IS PROHIBITED**

THE RECEIPT, POSSESSION, USE, AND TRANSFER OF THIS DEVICE ARE SUBJECT TO A GENERAL LICENSE OR THE EQUIVALENT AND THE REGULATIONS OF THE U.S. NUCLEAR REGULATORY COMMISSION OR A STATE WITH WHICH THE NRC HAS ENTERED INTO AN AGREEMENT FOR THE EXERCISE OF REGULATORY AUTHORITY.

DO NOT DISMANTLE OR OPEN THIS DEVICE UNLESS SPECIFICALLY LICENSED BY NRC OR AN AGREEMENT STATE.

DO NOT SELL, TRANSFER, ABANDON OR DISPOSE OF THIS DEVICE EXCEPT BY TRANSFER TO PERSONS SPECIFICALLY LICENSED BY NRC OR AN AGREEMENT STATE.

USE OF THIS DEVICE IS PROHIBITED IF THERE IS ANY INDICATION OF FAILURE OF OR DAMAGE TO, CONTAINMENT OF RADIOACTIVE MATERIAL.

LOSS, THEFT, OR TRANSFER OF THIS DEVICE TO ANOTHER LICENSEE, AND FAILURE OR DAMAGE TO SHIELDING OR SOURCE CONTAINMENT MUST BE REPORTED TO NRC OR AGREEMENT STATE.

PENNSYLVANIA CERTIFICATE OF APPROVAL NO. 3998