

From: "Larry Harmon" <lharmon@safetylight.com>
To: "John Jankovich" <JPJ2@nrc.gov>
Date: 3/10/03 4:29PM
Subject: RE: Request for Additional Information

The attached is in response to your questions below. If you have any further questions, please contact me at lharmon@safetylight.com .

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

From: John Jankovich [mailto:JPJ2@nrc.gov]
Sent: Wednesday, February 12, 2003 4:53 PM
To: lharmon@safetylight.com
Cc: Marissa Bailey; Nima Ashkeboussi; Ujagar Bhachu
Subject: Request for Additional Information

Mr. Harmon:

We have received your application dated January 20, 2003, which requested an amendment to registration certificate NR-0579-D-112-G. You have indicated that you wish to manufacture and distribute the devices that previously had been registered by Self Powered Lighting, Ltd., Elmsford, NY . We have performed a review of the application. We need the following additional information and clarifications to continue with our review:

1. Proprietary designation

Most of the drawings are marked as proprietary. Please note that the documents in the NRC files are available for public disclosure unless withholding from public disclosure is processed in accordance with the provisions of 10 CFR 2.790. Therefore, I ask you to provide either (1) a waiver for the proprietary designation of the documents in your application, dated January 20, 2003; or (2) a notarized affidavit which addresses the issues in 10 CFR 2.790(b)(4)(i-v). Please note that the affidavit must list, by identifiable designation, each document and drawing that are to be withheld from public disclosure.

2. Drawings for device series

The application requested the registration of a total of 27 devices and you have provided drawings for the individual models. Many of the models are similar in design and part of a series. Therefore, I ask you to provide us with summary drawings for each of the series which display the technical information for the specific models.

3. Quality Assurance

3.1 Current Quality Assurance Program

The NRC records indicate that your registration certificate, No. NR-0579-D-112-G, was issued on Sept. 30, 1996, and that the quality assurance measures that are on records are dated even earlier. Therefore, please provide updated information on the quality assurance measures that you currently use for the manufacture and the distribution of your products.

3.2 Receipt Inspections

Please provide information on the receipt inspections that you perform on the sources that are provided by your foreign vendors, i.e. Surelite and MbMicrotech.

4. Source Technical Data

Please provide technical specifications and drawings for the sources supplied by your foreign vendors, i.e. Surelite and MbMicrotech.

Please submit the requested information within thirty days of the date of this letter. If we have not received complete information within thirty days of the date of this letter, we will consider your application as having been abandoned by you. This is without prejudice to the submission of a complete application.

If you have any questions, please contact me by e-mail or call at (301) 415-7904 or Mr. Nima Ashkeboussi at (301) 415-7637.
John Jankovich

Mail Envelope Properties (3E6D03A3.075 : 16 : 117)

Subject: RE: Request for Additional Information
Creation Date: 3/10/03 3:27PM
From: "Larry Harmon" <lharmon@safetylight.com>

Created By: lharmon@safetylight.com

Recipients

nrc.gov
twf4_po.TWFN_DO
JPJ2 (John Jankovich)

Post Office

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Route

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Files	Size	Date & Time
MESSAGE	3072	03/10/03 03:27PM
Response to questions March 6, 2003.doc		23552
Line Drawings for NRC application.zip		1244371
SPL Source Charts.xls	20992	
Mime.822	1768894	

Options

Expiration Date: None
Priority: Standard
Reply Requested: No
Return Notification: None

Concealed Subject: No
Security: Standard

March 6, 2003

United States Nuclear Regulatory Authority
11555 Rockville Pike
Rockville, Md. 20852
Mailstop T-8F5
Attention: John Jankovich

Dear Mr. Jankovich,

In answer to your e-mail dated February 12, I submit the following.

Safety Light Corporation waives the proprietary rights for the documents sent to you with our application dated January 20, 2003.

Enclosed with this letter are drawings that depict the sign series with the minimum and maximum dimensions for these parts per your request. Drawings and parts that are not part of the series can be pulled from the original submission to you. They are the following: DB-26, Drawing CAN/DB/26-BGA ; DB-27, Drawing B01-10447 ; DB-28, Drawing CAN/DB/28-AGA ; DB-29, Drawing CAN/DB/29-AGA ; DB-30, Drawing B01-10454 ; DB-45, Drawing CAN/DB/45-S ; DB-50, Drawing B01-11531 ; P/N 618-5791-001, -002 and -003, Drawing B01-12442 ; HM-99, Drawing B01-12797 and an additional part number which I had not included in the original list is AC/24 and AC/26 shown on Drawing C01-11076 which is enclosed.

Although our quality control program predates 1996, its one that the people here are familiar with and one that has assured high quality parts are delivered to the various aircraft manufacturers and users. I don't see a need to change that at the present time.

The receipt inspections for tubes are as follows: the outside shipping containers are swabbed and a tritium monitor is used to sniff the inside of the container. If these values are under the dot shipping regulations, the boxes are then taken to the tritium process building. The inner container in the box is then swabbed for any contamination. If contamination is found on this surface, the can is taken into the active room and placed inside a vented hood. In any case, the next step is to remove the lid of the inner container and sniff the inside for gas leakage. The contents of the inner container are then swabbed for surface contamination. If surface contamination is found, the tubes will then be cleaned to background levels of radiation. The tubes are then laid out on trays and examined for brightness. After this they are stored in vented cabinets until final installation into the signs.

We do not have source drawings for the tubes that we purchase from Surelite

and MBMicrotech. All the tubes use Borosilicate glass. There is a chart that I am enclosing that lists each lamp by part number , size and curie amount. I hope this suffices for your needs.

The life of all the above signs is 7 to 10 years.

If you require any additional information, please do not hesitate to contact me.

Very Truly Yours,

Larry Harmon
Plant Manager

T-Light	P/N	Shape of tube	Diameter/Width X Height	Length	Thickness	Tritium (Curies)	Phosphor Color
XPA-35	260003	radial	0.2 DIA.	77 deg. @ 2.36 R	0.03	3.9	GREEN
XPA-37	270003	radial	0.2 DIA.	90 deg. @ 2.5 R	0.03	4.7	GREEN
XPA-83	240005F-Q	radial	0.08 DIA.	220 deg. @ 0.275 R	0.01	0.12	GREEN
XPC 41HP	250003F-Q	ROUND	0.28 DIA.	6.26	0.04	5.34	GREEN
XPC-109	700166	ROUND	0.28 DIA.	3.35	0.04	2.6	GREEN
XPC-123	600005FQ	ROUND	0.12 DIA.	2.625	0.03	0.93	GREEN
XPC-203	230003FQ	ROUND	0.25 DIA.	1.65	0.04	1	GREEN
XPC-391	120004FQ	ROUND	0.35 DIA.	5.75	0.04	6	GREEN
XPC-39HB	990018F-Q	ROUND	0.28 DIA.	3.7	0.04	3.7	GREEN
XPC-39SB	640004	ROUND	0.28 DIA.	3.7	0.04	4.5	GREEN
XPC-47	150003FQ	ROUND	0.28 DIA.	7.05	0.04	6	GREEN
XPC-51	110015	ROUND	0.28 DIA.	5.75	0.04	4.53	GREEN
XPE-10	140004C-V	FLAT	0.135 X 0.085	2.75	0.02	0.73	GREEN
XPE-12	140003FQ	FLAT	0.135 X 0.085	2.59	0.02	0.73	GREEN
XPE-14	140007	FLAT	0.135 X 0.085	3.375	0.02	0.92	GREEN
XPM-31	240006F-Q	ROUND	0.035 DIA.	0.25	0.01	0.02	GREEN
XPM-33	990038	ROUND	0.05 DIA	0.375	0.01	0.029	GREEN
XPM-55	280004F-Q	ROUND	0.05 DIA.	0.177	0.01	0.05	GREEN
XPR-142-1	4510003	FLAT	0.25 X 0.135	1.31	0.03	0.1	GREEN
XPR-142-2	451013-C	FLAT	0.25 X 0.135	1.31	0.03	0.18	YELLOW
XPR-142-3	451012	FLAT	0.25 X 0.135	1.31	0.03	0.37	GREEN
XPR-142-4	451011	FLAT	0.25 X 0.135	1.31	0.03	0.63	YELLOW
XPR-142-7	451016	FLAT	0.25 X 0.135	1.31	0.03	0.19	GREEN
XPR-144	300003F-Q	FLAT	0.12 X 0.06	0.61	0.01	0.1	GREEN
XPR-152	500007FQ	FLAT	0.41 X 0.16	2.38	0.06	2	GREEN
XPR-154	450003FQ	FLAT	0.41 X 0.16	1.81	0.06	1.7	GREEN
XPR-24	410003	FLAT	0.36 X 0.16	1.89	0.03	0.8	GREEN
XPR-26	450003F-Q	FLAT	0.36 X 0.16	2.47	0.03	1.4	GREEN
XPR-28	500003	FLAT	0.36 X 0.16	1.39	0.03	0.7	GREEN
XPR-36	110007	FLAT	0.4 X 0.16	2.3	0.03	1.6	GREEN
XPR-38	110008	FLAT	0.4 X 0.16	1.51	0.03	0.8	GREEN
XPR-40	110009FQ	FLAT	0.4 X 0.16	1.1	0.03	0.7	GREEN
XPR-42	110010FQ	FLAT	0.4 X 0.16	2.77	0.03	1.8	GREEN
XPR-44	110011FQ	FLAT	0.4 X 0.16	1.3	0.03	0.8	GREEN
XPR-46	110012FQ	FLAT	0.4 X 0.16	2.2	0.03	1.6	GREEN
XPR-48	110013FQ	FLAT	0.4 X 0.16	2.5	0.03	1.3	GREEN
XPR-50	110014	FLAT	0.4 X 0.16	1.9	0.03	1.5	GREEN
XPR-58	800003	FLAT	0.39 X 0.20	3.98	0.04	3	GREEN

Document - TLITINFO.XLS, Rev. B

NOTE: All dimensions given are in inches.

T-Light Description

Glass-Borosilicate(7740) or equiv., Phosphor-type 1260, ZnS:Cu:Al JEDEC # P-22 or equiv.

T-Light	P/N	Shape of tube	Diameter/Width X Height	Length	Thickness	Tritium (Curies)	Phosphor Color
XPA-35	260003	radial	0.2 DIA.	77 deg. @ 2.36 R	0.03	3.9	GREEN
XPA-37	270003	radial	0.2 DIA.	90 deg. @ 2.5 R	0.03	4.7	GREEN
XPA-83	240005F-Q	radial	0.08 DIA.	220 deg. @ 0.275 R	0.01	0.12	GREEN
XPC 41HP	250003F-Q	ROUND	0.28 DIA.	6.26	0.04	5.34	GREEN
XPC-109	700166	ROUND	0.28 DIA.	3.35	0.04	2.6	GREEN
XPC-123	600005FQ	ROUND	0.12 DIA.	2.625	0.03	0.93	GREEN
XPC-203	230003FQ	ROUND	0.25 DIA.	1.65	0.04	1	GREEN
XPC-391	120004FQ	ROUND	0.35 DIA.	5.75	0.04	6	GREEN
XPC-39HB	990018F-Q	ROUND	0.28 DIA.	3.7	0.04	3.7	GREEN
XPC-39SB	640004	ROUND	0.28 DIA.	3.7	0.04	4.5	GREEN
XPC-47	150003FQ	ROUND	0.28 DIA.	7.05	0.04	6	GREEN
XPC-51	110015	ROUND	0.28 DIA.	5.75	0.04	4.53	GREEN
XPE-10	140004C-V	FLAT	0.135 X 0.085	2.75	0.02	0.73	GREEN
XPE-12	140003FQ	FLAT	0.135 X 0.085	2.59	0.02	0.73	GREEN
XPE-14	140007	FLAT	0.135 X 0.085	3.375	0.02	0.92	GREEN
XPM-31	240006F-Q	ROUND	0.035 DIA.	0.25	0.01	0.02	GREEN
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XPR-142-1	4510003	FLAT	0.25 X 0.135	1.31	0.03	0.1	GREEN
XPR-142-2	451013-C	FLAT	0.25 X 0.135	1.31	0.03	0.18	YELLOW
XPR-142-3	451012	FLAT	0.25 X 0.135	1.31	0.03	0.37	GREEN
XPR-142-4	451011	FLAT	0.25 X 0.135	1.31	0.03	0.63	YELLOW
XPR-142-7	451016	FLAT	0.25 X 0.135	1.31	0.03	0.19	GREEN
XPR-144	300003F-Q	FLAT	0.12 X 0.06	0.61	0.01	0.1	GREEN
XPR-152	500007FQ	FLAT	0.41 X 0.16	2.38	0.06	2	GREEN
XPR-154	450003FQ	FLAT	0.41 X 0.16	1.81	0.06	1.7	GREEN
XPR-24	410003	FLAT	0.36 X 0.16	1.89	0.03	0.8	GREEN
XPR-26	450003F-Q	FLAT	0.36 X 0.16	2.47	0.03	1.4	GREEN
XPR-28	500003	FLAT	0.36 X 0.16	1.39	0.03	0.7	GREEN
XPR-36	110007	FLAT	0.4 X 0.16	2.3	0.03	1.6	GREEN
XPR-38	110008	FLAT	0.4 X 0.16	1.51	0.03	0.8	GREEN
XPR-40	110009FQ	FLAT	0.4 X 0.16	1.1	0.03	0.7	GREEN
XPR-42	110010FQ	FLAT	0.4 X 0.16	2.77	0.03	1.8	GREEN
XPR-44	110011FQ	FLAT	0.4 X 0.16	1.3	0.03	0.8	GREEN
XPR-46	110012FQ	FLAT	0.4 X 0.16	2.2	0.03	1.6	GREEN
XPR-48	110013FQ	FLAT	0.4 X 0.16	2.5	0.03	1.3	GREEN
XPR-50	110014	FLAT	0.4 X 0.16	1.9	0.03	1.5	GREEN
XPR-58	800003	FLAT	0.39 X 0.20	3.98	0.04	3	GREEN

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NOTE: All dimensions given are in inches.