



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

October 12, 2000

Docket No. 030-05982

License No. 37-00030-08

Larry Harmon  
Plant Manager  
Safety Light Corporation  
4150-A Old Berwick Road  
Bloomsburg, PA 17815

**SUBJECT: INSPECTION 030-05982/2000-002, SAFETY LIGHT CORPORATION,  
BLOOMSBURG, PENNSYLVANIA SITE**

Dear Mr. Harmon:

On August 8, 2000, Sheri Minnick, of this office conducted a safety inspection at the above address of activities authorized by the above listed NRC license. Duncan White, NRC Region I State Agreements Officer, and I accompanied Ms. Minnick during the inspection. The inspection is documented in NRC Inspection Report No. 030-05982/2000-002 (enclosed). The inspection was an examination of your licensed activities as they relate to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspector, interviews with personnel, and a selected examination of representative records. The findings of the inspection were discussed with you at the conclusion of the inspection.

Within the scope of this inspection, no violations were identified.

In accordance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html>. No reply to this letter is required.

Your cooperation with us is appreciated.

Sincerely,

*Original signed by: J.D. Kinneman*

DOCUMENT NAME: C:\L37-00030-08.2000002.wpd

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/enc; "E" = Copy w/attach/enc; "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI	Nuclear Materials Safety Branch 2
NAME	Sminnick SAA1		Jkinneman EX	Division of Nuclear Materials Safety
enclosure:	9/5/00		10/3/00	
DATE				

NRC Inspection Report No. 030-05982/2000-002

OFFICIAL RECORD COPY

cc:  
Commonwealth of Pennsylvania

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

INSPECTION REPORT

Inspection No. 030-05982/2000-002  
Docket No. 030-05982  
License No. 37-00030-08  
Licensee: Safety Light Corporation  
Location: 4150-A Old Berwick Road  
Bloomsburg, PA 17815  
Inspection Dates: August 8, 2000

**Original signed by:**  
**Sheri Minnick**

**9/5/00**

Inspectors:

\_\_\_\_\_  
Sheri Minnick  
Health Physicist

\_\_\_\_\_  
date

**Original signed by:**  
**Betsy Ullrich**

**10/3/00**

Approved By:

\_\_\_\_\_  
John D. Kinneman, Chief  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety

\_\_\_\_\_  
date

## **EXECUTIVE SUMMARY**

Safety Light Corporation  
NRC Inspection Report No. 030-05982/2000-002

On August 8, 2000, Sheri Minnick, Health Physicist, accompanied by Duncan White, NRC Region I State Agreements Officer, and John D. Kinneman, Chief, Nuclear Materials Safety Branch 2, performed an announced inspection of Safety Light Corporation's Bloomsburg, Pennsylvania facility. The inspection was an examination of licensed activities as they relate to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspector, interviews with personnel, and a selected examination of representative records. The inspection focused on the scope of activities involved with tritium operations, material inventory and waste management.

No violations were identified during the inspection.

## **REPORT DETAILS**

### **I. Scope of Tritium Operations**

a. Inspection Scope

The inspector toured the licensee's facilities involved with tritium operations and observed work activities.

b. Observations and Findings

The licensee assembles tritium exit signs and luminous products for distribution to general licensees. Glass tubes filled with tritium are made at Shield Source in Canada and sent to Safety Light. Safety Light assembles the products at their plant in Bloomsburg, PA. As part of this manufacturing process, the licensee receives filled tubes, assembles and ships signs, receives and disassembles returned signs, and returns "salvaged" tubes to Canada. Also, the licensee receives in tritium to make targets/foils for gas chromatographs for distribution to specific licensees.

c. Conclusions

No violations or safety concerns were identified.

### **II. Material Inventory**

a. Inspection Scope

The inspector observed the locations of tritium storage and reviewed applicable records.

b. Observations and Findings

The inspector's review of records indicate that the licensee's current inventory of tritium is approximately 70,000 curies. This figure does not take into account the decay of tritium, i.e., the quantity has not been decay corrected. The majority of this inventory, about 39,000 curies, is tritium that is either in the manufacturing process or consists of completed luminous products. The remainder of the inventory consists of approximately 15,000 curies in returned luminous products and approximately 16,000 curies in waste.

c. Conclusions

No violations or safety concerns were identified. The inspector noted that the licensee is below their allowable tritium license possession limit of 350,000 curies.

### **III. Radioactive Waste Management**

a. Inspection Scope

The inspector toured the licensee's facilities, including the solid waste building, discussed with the licensee their efforts to reduce the generation of tritium waste, and reviewed relevant records.

b. Observations and Findings

The licensee holds approximately 15,000 curies in returned luminous products and approximately 16,000 curies in waste. The waste is stored either in the solid waste building, or in fume hoods in the manufacturing area. Waste that was generated after January 2000, is being segregated within the waste facility.

The licensee's efforts to reduce the generation of tritium waste include moving the tritium tube filling operation to Canada, training of employees to only place contaminated materials in radioactive waste, and returning "salvaged" tubes to Canada. These efforts have reduced the generation of waste from an average of 13 curies per year to an estimated one curie for the year 2000.

c. Conclusions

No violations or safety concerns were identified. The inspector noted that the licensee is below their allowable license possession limit of 35,000 curies for tritium waste.

### **IV. Exit Meeting**

At the end of the inspection, the inspector informed the Plant Manager that there were no violations or safety concerns identified during the inspection.

**PARTIAL LIST OF PERSONS CONTACTED**

Licensee

Larry Harmon, Plant Manager

Norman Fritz, Radiation Safety Officer