

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Safety Light Corporation</p> <p>2. 4150-A Old Berwick Road Bloomsburg, Pennsylvania 17815</p>	<p>In accordance with the letter dated December 8, 1999,</p> <p>3. License number 37-00030-02 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date December 31, 1999</p> <hr/> <p>5. Docket No. 030-05980 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material</p> <p>B. Any byproduct material</p>	<p>7. Chemical and/or physical form</p> <p>A. Contaminated facilities, land and equipment</p> <p>B. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. See Condition 12</p> <p>B. 1 millicurie</p>
<p>9. Authorized use:</p> <p>A. Characterization and decommissioning of contaminated facility, equipment and land.</p> <p>B. Instrument calibration.</p>		

CONDITIONS

- 10. Licensed material may be used only at the licensee's facilities located at 4150-A Old Berwick Road, Bloomsburg, Pennsylvania.
- 11. A. Licensed material shall be used by, or under the supervision of, Norman G. Fritz, Larry Harmon, or Charles Berlin.
- B. The Radiation Safety Officer for this license is Norman G. Fritz.
- 12. The amount of material is limited to that amount existing in contaminated facilities, land, and equipment, as of January 3, 1995.

PDR ADOCK 03005980

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
37-00030-02Docket or Reference Number
030-05980

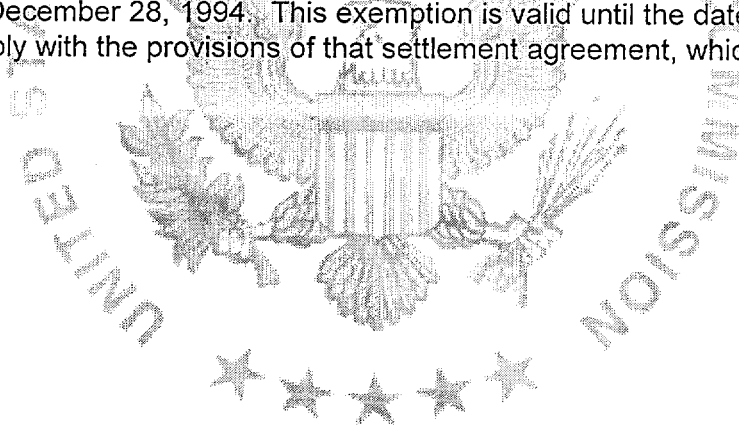
Amendment No. 50

13. Remediation and decommissioning activities of the radiological contamination of the underground silos at the Safety Light Corporation facility shall be performed in accordance with the statements, representations and procedures described in the licensee's Decommissioning Plan, and Health & Safety Plan, dated October 13, 1998, August 4, 1999, November 17, 1999 and December 8, 1999 respectively.
14. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
37-00030-02Docket or Reference Number
030-05980

Amendment No. 50

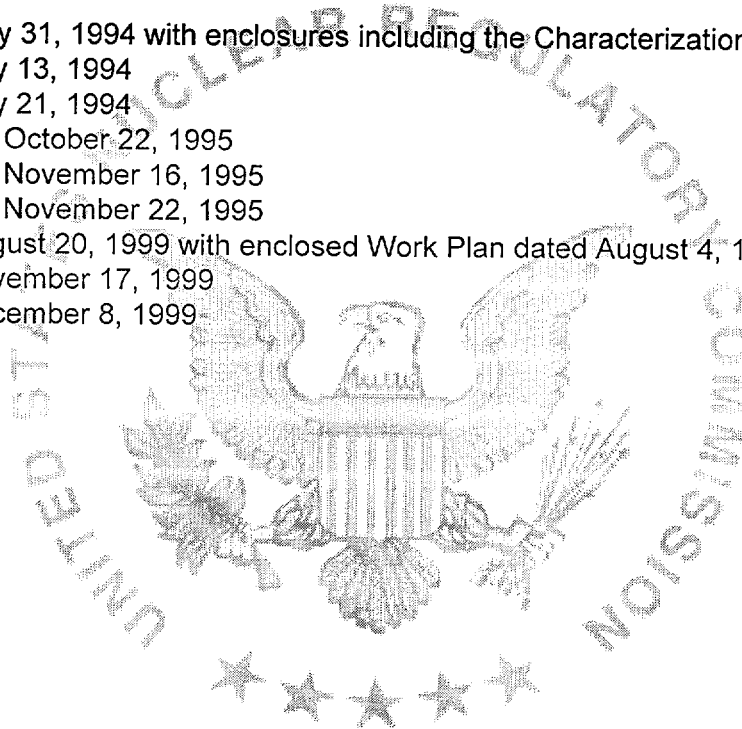
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."
16. Radioactive waste generated by the activities authorized by this license shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's letter dated March 8, 1994. The licensee is not authorized to export waste generated under this license.
17. Pursuant to 10 CFR 30.11 and notwithstanding the provisions of 10 CFR 30.32(h) and 30.35, the licensee is not required to have a decommissioning funding plan, provided that the licensee complies with all provisions of the settlement agreement, executed by the parties, as approved by the Atomic Safety and Licensing Board on December 28, 1994. This exemption is valid until the date shown in Item 4 or the date of any failure to comply with the provisions of that settlement agreement, whichever comes first.



**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
37-00030-02Docket or Reference Number
030-05980

Amendment No. 50

18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Letter dated May 31, 1994 with enclosures including the Characterization Plan dated March 1994
 - B. Letter dated July 13, 1994
 - C. Letter dated July 21, 1994
 - D. Facsimile dated October 22, 1995
 - E. Facsimile dated November 16, 1995
 - F. Facsimile dated November 22, 1995
 - G. Letter dated August 20, 1999 with enclosed Work Plan dated August 4, 1999.
 - H. Letter dated November 17, 1999
 - I. Letter dated December 8, 1999



For the U.S. Nuclear Regulatory Commission

Original signed by Ronald R. BellamyDate December 10, 1999

By _____

Ronald R. Bellamy, Chief
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

December 9, 1999

Docket No. 030-05980
Control No. 127565

License No. 37-00030-02

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

Dear Mr. Harmon:

This refers to your license amendment request dated December 8, 1999. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original signed by Ronald R. Bellamy

Ronald R. Bellamy, Chief
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety



Enclosure:
Amendment No. 50

ML10

DOCUMENT NAME: B:\DNMS Documents\Lic Cover Letter\L37-00030-02.127565.wpd

9667154

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

OFFICE	DNMS/RI	E	DNMS/RI				
NAME	JKottan 		RBellamy 				
DATE	12/09/99		12/10/99		12/ /99		12/ /99

OFFICIAL RECORD COPY

This is to acknowledge the receipt of your letter/application dated

12-8-99, and to inform you that the initial processing which includes an administrative review has been performed.

Amend 37-00030-02 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 127565.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R)
(6-96)

Sincerely,
Licensing Assistance Team Leader

Safety Light Corporation
 4150A Old Berwick Road
 Bloomsburg, Pa. 17815
 Phone: 570-784-4344
 Fax: 570-784-1402
 E-Mail: lharmon@safetylight.com

Post-It™ brand fax transmittal memo 7671 # of pages ▶

To	JIM KOTTAN	From	LARRY HARMON
Co.		Co.	
Dept.		Phone #	
Fax #		Fax #	

030-05980

December 8, 1999

Re: Amendment to license 37-00030-02

United States Nuclear Regulatory Authority
 475 Allendale Road
 King of Prussia, Pa. 19406
 Attention: Jim Kottan

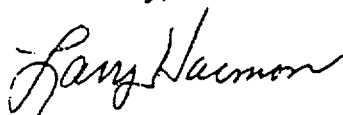
Dear Mr. Kottan:

An amendment is requested adding Level B protection. Section 5.0, paragraph 5.1.2 on page 5-1 and Table 6-2 in Section 6.0 in the work plan is revised to reflect this change. Since type carry over affected pages 5-1 through 5-5, they are included.

A fee is not required for this amendment.

If you have any questions, please do not hesitate to call me.

Sincerely,



Larry Harmon,
 Plant Manager

1 2 7 5 6 5

5.0 Personal Protective Equipment

5.1 Levels of Protection

The level of protection used in the RCA is based on site-specific information. Specific levels of protection will be changed whenever site conditions change. Levels of protection can either be increased to the next higher level or decreased to the next lower level. If the SSHO or Rad Con technician requests a change in levels of protection, he must contact the IT H&S manager. If the need arises to protect safety and health, the SSHO or Rad Con technician can upgrade protection levels without input from the IT H&S manager. The RWP will be used to document the level of protection. The level of protection will not be downgraded without prior approval from the IT H&S manager and the HP manager.

5.1.1 Level A Protection

Level A protection is not anticipated.

5.1.2 Level B Protection

Level B protection will not be used unless air monitoring data indicate the need for upgrade. The following equipment will be used for Level B protection:

- NIOSH- approved air supplied respirator
- Hooded, Tyvek, Kleenguard or equivalent, taped at gloves and boots
- Nitrile or leather palm gloves (outer)
- Light weight nitrile gloves (inner)
- Chemical resistant steel-toed boots or chemical resistant boot covers over steel-toed safety boots
- Hard hat

5.1.3 Level C Protection

Level C protection will not be used unless air monitoring data indicates the need for upgrade. The following equipment will be used for Level C protection:

- NIOSH-approved full face, air purifying respirators (APR) equipped with organic vapor/acid gas cartridge in combination with a HEPA filter (P-100 or equivalent) (if required) or just a HEPA cartridge
- Hooded, Tyvek, Kleenguard or equivalent, taped at gloves, boots, and respirator
- Nitrile or leather palm gloves (outer)
- Light weight nitrile gloves (inner)
- Chemical resistant steel-toed boots or chemical resistant boot covers over steel-toed safety boots
- Hard hat
- Hearing protection (when working near/adjacent to operating heavy equipment).

5.1.4 Level D-Modified Protection

The following equipment will be used for Level D-Modified protection:

- Tyvek, Kleenguard coveralls or its equivalent
- Chemical resistant boot covers over steel-toed safety boots
- Nitrile, heavy work, or latex gloves, or leather palm
- Inner latex glove
- Safety glasses (goggles while mixing grout)
- Hard hat
- Hearing protection (when working near/adjacent to operating heavy equipment).

5.1.5 Level D Protection

The minimal level of protection that will be required of IT personnel at the site will be Level D.

The following equipment will be used for Level D protection:

- Coveralls or work clothing
- Steel-toed safety boots
- Safety glasses (goggles while mixing grout)
- Hard hat
- Hearing protection (when working near/adjacent to operating heavy equipment)
- Leather palm gloves when moving/lifting equipment.

5.1.6 Selection of PPE

The selection of the PPE has been done after a thorough evaluation of the hazards involved during removal action operations. The initial levels of PPE are indicated on task breakdown Table S-1.

5.2 Using PPE

All persons entering the RCA will don the required PPE according to established procedures in this plan to minimize exposure potential. When leaving the RCA, PPE will be removed according to the established procedures to minimize the spread of contamination.

5.2.1 Donning Procedures

- Put on boots and boot covers and tape the coveralls
- Put on gloves.
- Tape the coveralls over the gloves at the wrist.
- Don respirator and check for secure fit (Level C PPE)
- Put hood or head covering over the respirator (Level C PPE)
- Put on remaining protective equipment, i.e., hard hat, safety glasses, etc

One person will remain outside the work area to check that each person entering has the proper protective equipment. No persons will be allowed to enter an RCA improperly attired.

5.2.2 Doffing Procedures

Whenever a person leaves the work site, the following proper decontamination sequence will be followed. See Section 8.1 for specific decontamination procedures.

5.3 Respiratory Program

A comprehensive respiratory protection program has been established by IT and is required in all locations where use of such equipment is intended to lessen the potential for adverse health affects to any employee.

As part of the respiratory training program, each employee is instructed in the following elements.

- Nature of the respiratory hazard on the work site and the appraisal of potential consequences if the respiratory protection is not utilized
- Use and proper fitting of the respirator

- Cleaning, disinfecting, inspection, maintenance, and storage of the respirator
- Proper selection, capabilities, and limitations.

Routinely used respiratory equipment will be inspected, cleaned, and disinfected daily to help assure proper hygienic practices. An inspection of these breathing devices will include the following:

- Examine the head straps for breaks, loss of elasticity, broken or malfunctioning buckles, and other attachments.
- Examine the face piece for excessive dirt, cracks, tears, distortion, holes, or inflexibility.
- Examine the exhalation and inhalation valves for any foreign material, cracks, tears, or distortion in the valve. Additional checks will be made to inspect for proper insertion, defective valve covers, or improper installation.
- Examine the air purifying elements for incorrect cartridge, expired shelf life of the cartridge, cracks or dents in the cartridge or cartridge-holder.
- Examine for proper insertion of the cartridges into the face-piece and a check of the gaskets inside the cartridge holder.
- Examine air cylinders for adequate air volume. Only Grade D air will be utilized for breathing air.

When Level C protection is required, respirator cartridges will be changed daily or if increased breathing resistance is detected. All respirators will be inspected prior to each day's use. If broken or malfunctioning parts are found during the cleaning process, these parts will be replaced or new respiratory equipment will be issued to the user.

The respiratory protective equipment will be stored in an area protected from any mechanical damage. These devices will also be stored in a location that provides protection against dust, heat, excessive moisture, or damage by chemical contact. The storage area for the respirators should be in a readily accessible location.

- Only employees who have been trained to wear and maintain respirators properly will be allowed to use respiratory protection.
- Selection of respirators, as well as any decisions regarding upgrading or downgrading of respiratory protection, will be made by the H&S manager or designee.

- Positive and negative pressure checks will be performed each time the respirator is donned.
- Only employees who have been fit tested within the last 12 months will be allowed to work in atmospheres where respirators are required.
- Respirator users will be instructed in the proper use and limitations of respirators.
- If an employee has difficulty in breathing during the fit test or during use, he will be evaluated medically to determine if he can wear a respirator safely while performing assigned tasks.
- No employee will be assigned to tasks requiring the use of respirators if, based upon the most recent examination, a physician determines that the health or safety of the employee will be impaired by respirator use.
- Contact lenses will not be worn while using any type of respiratory protection.
- Air-supplied respirators will be assembled according to manufacturer's specifications. Hose length, couplings, valves, regulators, manifolds, and all accessories will meet American National Standards Institute and the manufacturer's requirements.
- Respirators will be cleaned and sanitized daily after use.
- Respirators will be stored in a convenient, clean, and sanitary location on site.
- Respirators will be inspected during cleaning. Worn or deteriorated parts will be replaced.
- Facial hair that might interfere with a good face-piece seal or proper operation of the respirator is prohibited.
- The IT PM will review the respiratory protection program daily to ensure employees are properly wearing and maintaining their respirators and that the respiratory protection is adequately protecting the employees.
- The H&S manager and the PM will evaluate the respiratory protection program monthly to ensure the continuing effectiveness.
- Respirators used for emergency response will be inspected weekly by the SSO.

Table 6-2

**Action Levels, Silo Contents Removal
Safety Light Corporation, Bloomsburg, Pennsylvania**

When in Level B PPE

Analyte	Action Level	Required Action
Flammable Vapors	> 10% LEL in work area	Stop work ^a
Oxygen	< 20% or > 23.5%	Stop work
Particulates	> 20 mg/m ³	Stop work ^b
Unknown VOCs	> 500 ppm above background in breathing zone (BZ)	Stop work ^b
Radionuclides	≥ 100 DAC above background in BZ	Stop work

When in Level C PPE

Analyte	Action Level	Required Action
Flammable Vapors	> 10% LEL in work area	Stop work ^a
Oxygen	< 20% or > 23.5%	Stop work
Particulates	> 5 mg/m ³	Level B PPE
Unknown VOCs	> 50 ppm above background in breathing zone (BZ)	Level D PPE
Radionuclides	≥ 25% DAC above background in BZ	Level B PPE

When in Level D Modified/D PPE

Analyte	Action Level	Required Action
Flammable Vapors	≥ 0% LEL in work area	Level C PPE ^a
Oxygen	< 20% or > 23.5%	Stop work
Particulates	≥ 1 mg/m ³	Level C PPE ^b
Unknown VOCs	> 1 ppm above background in BZ	Level C PPE ^b
Radionuclides	≥ 10% of a DAC above background in BZ	Level C PPE

When in Support Zone

Analyte	Action Level	Required Action
Flammable Vapors	≥ 0% LEL in work area	Evacuate support zone and re-establish perimeter of RCA
Oxygen	< 20% or > 23.5%	Stop work ^a
Particulates	≥ 0.5 mg/m ³	Evacuate support zone and re-establish perimeter of RCA

Table 6-2

**Action Levels, Site Contents Removal
Safety Light Corporation, Bloomsburg, Pennsylvania**

Unknown VOCs	≥ 1 ppm above background in BZ	Evacuate support zone and re-establish perimeter of RCA.
Radionuclides	$> 10\%$ of a DAC above background in BZ. values in 10 CFR 835 document, Table 2-2 2 mR/hr	Evacuate support zone and re-establish perimeter of RCA.

^aContact with the HSM must be made prior to continuance of work. The HSM may then initiate perimeter/integrated air sampling along with additional engineering controls.
^bFour instantaneous peaks in any 15-minute period or a sustained reading for 5 minutes in excess of the action level will trigger a response.
No one is permitted to downgrade levels of PPE without authorization from the HSM and HPM.

1 2 7 5 6 5

KN-4416/4516-6-5(13-07-99) (4013)

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: Program Code: 03900
: Status Code: 2
: Fee Category: 14
: Exp. Date: 19991231
: Fee Comments: 14 EFF 1/25/79
: Decom Fin Assur Req: Y

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: SAFETY LIGHT CORP.
Received Date: 19991208
Docket No: 3005980
Control No.: 127565
License No.: 37-00030-02
Action Type: Amendment

2. FEE ATTACHED

Amount: -----
Check No.: -----

3. COMMENTS

Signed R. J. Brown
Date 12/99/99

B. LICENSE FEE MANAGEMENT BRANCH (C) ~~mi~~ entered / /

1. Fee Category and Amount: 14

*Subject to Full Cost
Billing*

2. Correct Fee Paid. Application may be processed
Amendment -----
Renewal -----
License -----

3. OTHER -----

Signed -----
Date -----

RECEIVED BY LFDCB
Date -----
Log Dec 8 1999
By BB
Date Completed -----