

License Nos.: 37-00030-02
37-00030-08

Docket Nos.: 03005980
03005982

Safety Light Corporation

Title: Exhibit 2 Document Collection

Documents: United States Radium Corporation Initial License No. 37-00030-02, dated June 20, 1956 (also at ML022660537, p78);
License No. 37-00030-02, Amendment 36, dated August 5, 1969 (also at ML022660537, pp 10 & 11);
License No. 37-00030-02, Amendment 40, dated January 25, 1979 (also at ML02266537, pp 5 & 6);
Letter dated October 23, 1978 (also at ML033140405 and ML033160124);
Letter dated October 6, 1978;
Letter dated June 22, 1978;
Letter dated June 9, 1978 asking for information about contamination (also at ML033160130);
Letter dated June 7, 1977 with renewal application (also at ML033160131);
Amendment 42 to License No. 37-00030-01 (also at ML ML022660537, pp 1, 2 & 3)

These documents are Exhibit No. 2 to NRC Staff's Motion for Summary Disposition As To NRC Jurisdiction Over USR Industries, Inc., USR Lighting, Inc., USR Chemical Products, Inc., USR Metals, Inc., and USR Natural Resources, Inc., dated June 30, 1992 (ML040230156) and NRC Staff's Statement of Undisputed Material Facts As to Which No Genuine Issue Remains (ML040230151)

An additional submission of documents concerning Exhibit 2 is at ML040230192.

List of all Exhibits at ML040220785.

Tab. 2
Staff Exh. 2

Form AEC-374
(9-55)U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

(Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below, and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee 1 Name United States Radium Corporation P. O. Box 350 2 Address Hollsburg, Pennsylvania Attn: Mr. C. C. Carroll, Chairman Radioisotope Committee		3 License number 17-30-2 4 Expiration date June 30, 1958 5 Reference No.
6 Byproduct material (element and mass number) Any byproduct material between Atomic No. 3 and 83, inclusive.	7. Chemical and/or physical form Any	8. Maximum amount of radioactivity which licensee may possess at any one time - unspecified. "as required", except no single discrete source present under this license shall exceed 25 curies per source.
9. Authorized use RESEARCH AND DEVELOPMENT as defined in Section 11(q) Atomic Energy Act of 1954. PROCESSING FOR REDISTRIBUTION to AEC licensed users.		

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above, and the materials are to be used by, or under the supervision of, individuals approved by the radioisotope committee.
11. Except as hereinafter provided the licensee shall comply with provisions of the Atomic Energy Commission's proposed standards for protection against radiation as published in the Federal Register, July 16, 1955 (10-CFR-20), until such time as said proposed regulations or revisions thereof become effective regulations of the Commission. Notwithstanding, Section 20.24(f) of said standards, labeling shall not be required for laboratory containers such as beakers, flasks and test tubes, used transiently in laboratory procedures during presence of the user.
12. Byproduct material not to be used in:
- (a) or on human beings.
 - (b) field or other uses where long term control of the radioactivity may be lost.

For the U. S. Atomic Energy Commission

ORIGINAL SIGNED BY
JULY 2, 1956Date June 20, 1956

by

for

Director, Isotopes Extension
Division of Civilian Application
Oak Ridge, Tennessee

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

License No. 37-00030-
Page 1 of 2 Page

Amendment No. 36

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act, 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. United States Radium Corporation</p> <p>2. 4150 Old Berwick Road Bloomsburg, Pennsylvania 17015</p>		<p>In accordance with letter dated March 14, 1969,</p> <p>3. License number 37-00030-02 is amended in its entirety to read as follows:</p> <p>4. Expiration date July 31, 1970</p> <p>5. Reference No.</p>
<p>6. Byproduct material (element and mass number)</p> <p>A. Any byproduct material</p>	<p>7. Chemical and/or physical form</p> <p>A. Contaminated facilities and equipment</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. See item 9.A. below</p>
<p>9. Authorized use</p> <p>A. Decontamination, clean-up and disposal of equipment and facilities previously used for research, development, and processing under this license.</p>		

CONDITIONS

10. Byproduct material may only be used at the licensee's address stated in Item 2 above.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation."
12. Byproduct material shall be used by, or under the supervision of D. B. Cowan, C. E. Widger, I. W. Allan, or J. D. McGraw.

CONDITIONS

Amendment No. 36

(Continued)

13. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated April 25, 1969 and letter dated July 23, 1969, signed by O. L. Olson.

AUG 5 1969

For the U. S. Atomic Energy Comm
Original Signed by
Robert E. Brinkman

by Isotopes Branch

Division of Materials Licet
Washington, D. C. 20545

8-8
R-47

U. S. NUCLEAR REGULATORY COMMISSION MATERIALS LICENSE

Page 1 of 2 Pages

Amendment No. 00

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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to import such byproduct and source material. 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.

Licensee		In accordance with application dated June 7, 1977	
1. United States Radium Corporation		3. License number 37-00030-02 is amended in its entirety to read as follows:	
2. 4150 Old Berwick Road Bloomsburg, Pennsylvania 17815		4. Expiration date February 29, 1984	
		5. Reference No. Docket or	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Any byproduct material	A. Contaminated facilities and equipment	A. See Item 9, A. below	

9. Authorized use

- A. Decontamination, cleanup, and disposal of equipment and facilities previously used for research and development under this license.

CONDITIONS

10. Licensed material shall be used only at the licensee's address stated in Item 2 above.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Operations shall be conducted by, or under the supervision of, R. E. Bickert or J. D. McGraw.
13. A report of status and schedule of work for the 12 months period commencing July 1 shall be submitted no later than July 1.

MATERIALS LICENSE

Supplementary Sheet

License Number 37-00030-02

Docket or

Reference No. _____

Amendment No. 40

(continued)

14. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated April 25, 1969; letter dated July 23, 1969, and application dated June 7, 1977 as amended October 23, 1978.

Date JAN 25 1979

NB 1/25/79
For the U. S. Nuclear Regulatory Commission
Original Signed By
NATHAN BASSIN
License Management Branch
by _____

Division of Fuel Cycle and
Material Safety
Washington, D.C. 20555 *3M*

1127.11



UNITED STATES RADIUM CORPORATION

4150 OLD BERWICK ROAD / BLOOMSBURG, PENNSYLVANIA 17815 / (717) 784-3510

3581

October 23, 1978

Radioisotopes Licensing Branch
Division of Fuel Cycle and Material Safety
U. S. Nuclear Regulatory Commission
396SS Washington, D. C. 20555

Attention: Mr. Frederick Combs
Reference: USNRC License 37-00030-02
Docket No. 87910

Dear Mr. Combs:

Enclosed is the information you requested in your letter of June 9, 1978. Specific operations are scheduled only through June of 1979. At this time, a complete evaluation of survey results collected will be carried out to determine further operations.

Very truly yours,

UNITED STATES RADIUM CORPORATION

Terry D. Brown
Nuclear Operations Manager

TDB
jrn

Enc.

CERT. MAIL -rrr
CC: USNRC

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PART I

PRESENT STATUS

PREFACE

With the conclusion of the decontamination of the primary facilities utilized in activities licensed under USAEC License 37-00030-02, a survey of the entire plant was begun. This survey, carried out over a period of three years, included every building on the site regardless of whether radioactive materials had been processed in them or not. The purpose of the plant survey was to identify, to the best of our ability, the status of the entire plant site. The survey was not designed to determine the full extent of any contamination found in a specific area, but rather to determine what areas or buildings did have any significant levels of contamination, and a rough estimate of the work and equipment needed to carry out such decontamination. This type of survey was sorely needed because records of the early history of radioactives operations on the site (1948 - 1956) were incomplete. The following pages show the results of that survey and represent the present status of our site. DPM values are per a nominal 50-100 cm².

AREA #1 - MAIN BUILDING

The former Hand Painting department occupied the second floor front of this building. The area itself has been completely decontaminated. However, the attic above this area still contains the contaminated exhaust ducts for the old radium painting operations. In addition, there is widespread alpha contamination on rafters, ceiling joists, and underside of the roof. Levels of contamination range up to 20,000 DPM. Between the floor of the former Hand Painting department and the ceiling below there is lower level alpha contamination, on the order of 200-600 DPM.

The only other known contamination remaining in this building is a drain line from a Strontium-90 production operation which was removed in the early 1950's. There is no measurable radiation coming up through the floor. However, there is no way to determine the extent of the contamination (if any) within the drain line. The drain is not in use, and hasn't been used for some twenty years.

AREA #2 - ETCHING BUILDING

The former shipping room in this building once housed radium screening machines. There is low level fixed alpha contamination on the floor (200-600 DPM). There are higher levels in certain cracks around the cement pads on which the radium screening machines once stood (200-2000 DPM). The entire floor has been covered with plywood and is used only for storage of little used materials. Removable alpha contamination has not been found in the area since the plywood was laid down. It is suspected that the soil beneath the wooden floor may also have low level contamination in it; however, radiation levels show no gamma radiation above background in this area.

The former Watch Dial screen rooms and drain line in this building were used for applying Tritium to watch dials in large sheets. Although the operation was moved to the Nuclear Building in 1969, the area has only been partially decontaminated. Levels of Tritium removable contamination range from 5000-50000 DPM. The exhaust ducts, absolute filter bank, blower and discharge stack for the former Watch Dial screen rooms are still intact. Contamination levels in these areas are unknown.

The attic of the building has scattered spots of low level alpha contamination (200-1000 DPM).

The maintenance wire enclosure has a 12" thick concrete floor poured over an old radium drain. Radiation levels in the enclosure are background.

AREA #3 - TRITIUM BUILDING

The Tritium building originally housed the equipment used for making Tritium foil. This equipment was moved to the Nuclear building in 1969. Surveys of this building over the past nine years have shown a steady decrease in removable Tritium contamination from 50,000 - 80,000 DPM in 1969, to its present 8,000-10,000 DPM.

AREA #4 - PIPE SHOP

Radon samples taken in 1973 showed excessive levels of radon (in excess of 3 X mpc). Surveys showed 200-400 DPM removable alpha uniformly distributed over every interior surface of the building. Although no radioactive operations have ever been performed in this building, it extends over an area that was used as a plant dump in the late forties.

AREA #5 - RADIUM VAULT

This building was formerly used for storage and handling of radium bromide, radium foil and radium radiation sources. When closed off in 1970, contamination levels were 1,000-50,000 DPM fixed alpha and 50-200 DPM removable alpha. Radiation levels at some places in the building were 0.1-0.3 mR/hr beta-gamma.

AREA #6 - SOLUTIONS VAULT

This building was used for handling certain radioactive solutions and for storage of certain high-level radiation sources. Recent surveys have shown that there is no detectable removable alpha or beta-gamma. The building is presently being used for storage.

AREA #7 - SEALED SOURCES VAULT

This small building was used only for the storage of certain sealed sources; however, some contamination has been found in and around the floor and door of the building. The last surveys showed less than 0.25 mR/hr beta-gamma.

AREA #8 - OLD GARAGE

Originally used as the waste disposal building, this structure has been vacant since the late 1950's. The dirt is contaminated (200-2,000 DPM alpha and 0-0.4 mR/hr beta-gamma).

AREA #9 - SILO

The silo was used solely for the remote storage of certain types of high-level sources. Contamination is basically background; however, a thorough survey has not been conducted.

AREA #10 - OLD HOUSE

This structure has been used for the storage of many low-level contaminated items over the years. Low-level alpha contamination (200-1,000 DPM) is widespread in certain areas of the building.

AREA #11 - PERSONNEL OFFICE

In the basement of the former personnel office is an old well of some sort that was apparently used for waste disposal purposes. No records are available as to what was disposed of in this well - by whom, why or when. It apparently has a concrete cap. Radiation levels over the cap are 0-0.25 mR/hr beta-gamma.

AREA #12 - BURIAL PITS

Originally licensed for the disposal of low-level wastes in 1956, there are no records in existence of how these burial sites are constructed, nor of what is buried in them. Radiation levels at soil level range from background to 0.6 mR/hr beta-gamma. These pits were under water during the flood of 1972; however, there has been no significant change in radiation levels during or after the flood.

AREA #13 - PLANT DUMP at Southwest Corner of Property

Originally found in 1970, some decontamination has been carried out in this area. Present radiation levels are less than 0.6 mR/hr beta-gamma.

AREA #14 - PLANT DUMP between Lagoons

This area was found during the installation of a new storm sewer in 1972. Radiation levels are approximately several thousand CPM beta only. There appears to be little or no associated gamma.

AREA #15 - CEMENT TROUGH, SEWER AND GRATE

Source of contamination of these items is unknown. Contamination levels are 200-2,000 DPM alpha.

AREA #16 - EAST LAGOON

The full extent of contamination in this pond is difficult to ascertain due to the water and mud in the pond. Underwater surveys with a waterproof probe show radiation levels range from background to 4 mR/hr gamma.

AREA #17 - CONTAMINATED SOIL UNDER OLD LOADING DOCK

This area was formerly the main access to the alpha laboratory for the removal of radioactive waste and other large items. The soil beneath it is relatively inaccessible; however, the limited surveys possible indicate contamination levels ranging from background to 2 mR/hr beta-gamma.

AREA #18 - CONTAMINATED SOIL BY SILO FENCE

This contaminated area adjoins the old garage formerly used for waste disposal. Radiation levels range from background to 0.6 mR/hr beta-gamma.

AREA #19 - CONTAMINATED SOIL BY TRITIUM BUILDING

A small area of soil near the front of Area #3 has a radiation level of approximately 0.6 mR/hr beta-gamma.

AREA #20 - CONTAMINATED SOIL EAST OF LAGOONS

This is a large area of soil completely covered with heavy undergrowth. Radiation levels range from background to 0.6 mR/hr beta-gamma.

AREA #21 - CARPENTER SHOP

This building was used for storage of radium in the late forties and early fifties. One wall is known to be contaminated with 10,000 to 50,000 DPM alpha and 1-2 mR/hr beta-gamma.

AREA #22 - SIDEWALKS

At various times in the past, contamination has been found at isolated points on the exterior walkways on the site. This has generally been 200-2,000 DPM alpha with no detectable beta-gamma.

AREA #23 - FORMER CANAL BANK

At one time, there were additional lagoons on the site. These were decontaminated in the early sixties. However, no records of residual levels of contamination exist.

AREA #24 - CONTAMINATED DRAINS

A number of contaminated drains left from old radioactive operations remain on the site. The extent of contamination in these lines is unknown.

AREA #25 - FORMER EXIT SIGN ASSEMBLY AREA

This area in the Etching building was used for the assembly and storage of exit signs containing Tritium. Brief surveys showed no detectable contamination; however, a thorough survey remains to be done.

AREA #26 - FORMER CESIUM ION-EXCHANGE HUT

This building formerly housed the ion-exchange columns used to treat waste water from the Cesium laboratory. While gross contamination has been removed, survey records are incomplete.

PART II

PROPOSED SCHEDULE FOR

FURTHER SURVEY AND DECONTAMINATION

OPERATIONS

PREFACE

Based upon the site contamination status contained in Part I of this program, a tentative schedule for the decontamination program has been developed covering the next nine months. It will be modified by considerations such as weather conditions and survey results.

In June of 1979, a schedule for the next twelve months will be developed, based upon new survey results and any other new information available.

OCTOBER THROUGH DECEMBER, 1978

- Area 9 - Survey silo to determine nature of decontamination efforts necessary.
- Area 12 - Take three core samples in vicinity of old burial pits and establish permanent wells for continuing samples of ground water and sub-surface radiation levels.
- Area 14 - Excavate contaminated soil between lagoons.
- Area 15 - Decontaminate cement trough and storm sewer. Replace if necessary.
- Area 18 - Survey to determine extent of area involved. Take core samples by hand.
- Area 19 - Remove contaminated soil by Tritium building.
- Area 21 - Remove contaminated wall in carpenter shop.
- Area 22 - Survey all external plant walkways.

JANUARY THROUGH JUNE, 1979

- Area 2 -
 - (a) Decontaminate former shipping room.
 - (b) Survey former Watch Dial screen rooms, exhaust ducts, filter bank and plenum chamber.
 - (c) Survey attic to determine exact location of contaminated areas.
- Area 5 - Reopen and survey old radium vault.
- Area 7 - Decontaminate sealed sources vault.
- Area 8 - Decontaminate old garage.
- Area 23 - Survey canal bank.

--- REVIEW PROGRAM ---

OCT 6 1978

United States Radium Corporation
Attn: Mr. J. David McGraw
415. Blk Bernick Road
Sloatsburg, N.Y. 17015

Gentlemen:

This refers to your request for renewal of License No. 37-00030-02 and our request for additional information dated June 9, 1978, a copy of which is enclosed. A check of our files indicates that we have not received a response from you to date. If we do not receive a reply within 30 days, it may be necessary to deny your application and terminate your license. Such action would require that you divest yourself of all licensed material.

Sincerely,

Frederick Combs
Radioisotopes Licensing Branch
Division of Fuel Cycle and
Material Safety

Enclosure:
As stated

QA 10/6/78



UNITED STATES RADIUM CORPORATION

4150 OLD BERWICK ROAD / BLOOMSBURG, PENNSYLVANIA 17815 / (717) 784-3510

June 22, 1978

Radioisotopes Licensing Branch
Division of Fuel Cycle and Material
Safety
U.S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Attn: Mr. Frederick Combs

Ref.: FCRC-FC (87910)

Dear Mr. Combs:

We have received your letter of June 9, 1978.

The information you have requested is being prepared.

Preparation and submission of a detailed report, and our present and future programs should be completed by October 31, 1978.

Very truly yours,

UNITED STATES RADIUM CORPORATION

E. B. Fisher
Chairman and Chief Executive Officer

EBF:dc

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JUN 9 1978

FCRL:FC
(87910)

United States Radium Corporation
ATTN: Mr. J. David McGraw
4150 Old Berwick Road
Bloomsburg, PA 17815

Gentlemen:

This refers to your application dated June 7, 1977, for renewal of License No. 37-00030-02, authorizing decontamination of your former research development and processing facilities. We request that you supplement your application with a detailed report concerning the status of your decontamination efforts. This report should identify those areas which are still contaminated and the types and quantities of contamination in those areas, provide a description of your current program for surveying these areas and surrounding environs, and outline your plan for completing decontamination of this facility.

We shall continue review of your application upon receipt of the above information, in duplicate.

Sincerely,

Frederick Combs
Radioisotopes Licensing Branch
Division of Fuel Cycle and
Material Safety

CRESS:WILL	OFFICE	FCRL				
MC#137426	SURNAME	FCOMBS:cb				
6/12/78		6/12/78				



UNITED STATES RADIUM CORPORATION
4150 OLD BERWICK ROAD / BLOOMSBURG. PENNSYLVANIA 17815 / (717) 784-3510

June 7, 1977



Radioisotope Licensing Branch
Division of Fuel Cycle and
Material Safety
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Ref.: License No. 37-00030-02

Gentlemen:

Enclosed are the required duplicate copies of Form
AEC-313 requesting renewal of the above-referenced license.

If further information is required, please contact the
undersigned.

Respectfully yours,

UNITED STATES RADIUM CORPORATION

J. David McGraw
Radiation Safety Officer

JDMcG
jrn

Encs.

CERT. MAIL ret.rec.req.

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87910

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS—Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Materials Branch, Directorate of Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20, and the license fee provisions of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in Item 16 and the appropriate fee enclosed. (See Note in Instruction Sheet.)

1 (a) NAME AND STREET ADDRESS OF APPLICANT (Institution, firm, hospital, person, etc. Include ZIP Code and telephone number.) U. S. Radium Corporation 4150 Old Berwick Road Bloomsburg, Pa. 17815		(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from 1(a), include ZIP Code.)	
2 DEPARTMENT TO USE BYPRODUCT MATERIAL Health Physics		3. PREVIOUS LICENSE NUMBER(S) (If this is an application for renewal of a license, please indicate and give number.) 37-00030-02 (renewal)	
4 INDIVIDUAL USER(S) (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.) R. E. Bickert J. D. McGraw		5 RADIATION PROTECTION OFFICER (Name of person designated as radiation safety officer if other than individual user. Attach resume of his training and experience in Items 8 and 9.) J. D. McGraw	
6 (a) BYPRODUCT MATERIAL (Element and mass number of each.) Any byproduct material		(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number of source and maximum activity per source.) Contaminated facilities and equipment	

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

Decontamination, cleanup and disposal of equipment and facilities previously used for research, development, and processing under this license.

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87910

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)				
8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL SOURCE (Circle answer)
a. Principles and practices of radiation protection	Items 8 thru 15		Yes No	Yes No
b. Radioactivity measurement standardization and monitoring techniques and instruments	see application dated Oct. 18, 1974, signed by		Yes No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity	J. David McGraw supporting renewal of license 37-00030-08.		Yes No	Yes No
d. Biological effects of radiation			Yes No	Yes No

9. EXPERIENCE WITH RADIATION (Actual use of radioisotopes or equivalent experience)				
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE

10. RADIATION DETECTION INSTRUMENTS (Use supplemental sheets if necessary)					
TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	USE (Monitoring, surveying, measuring)

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier)

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the sources.

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

LO E 15 51 170 11

License Fee Category \$ _____

Fee Enclosed \$ _____

Date June 7, 1977

UNITED STATES RADIUM CORPORATION

Applicant named in Item 1

By: J. David McGraw

Radiation Safety Officer

Title of certifying official

WARNING.—18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

CORRECTED COPY

Docket or Reference Number

Amendment No. 42

Safety Light Corporation
4150-A Old Berwick Road
Bloomsburg, Pennsylvania 17815

In accordance with letter dated January 21, 1961, License Number 37-00030-02
is amended as follows:

The name and address of the licensee are changed from United States Radiun Corporation,
4150 Old Berwick Road, Bloomsburg, Pennsylvania 17815 to Safety Light Corporation,
4150-A Old Berwick Road, Bloomsburg, Pennsylvania 17815.



FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Original Signed By
John W. N. Hickey

By *JH*

Material Licensing Branch
Division of Fuel Cycle and Materials
Safety
Washington, D. C. 20555

APR 17 1963

Date _____

3/7/83

MATERIALS LICENSE
SUPPLEMENTARY SHEET

Docket or Reference number

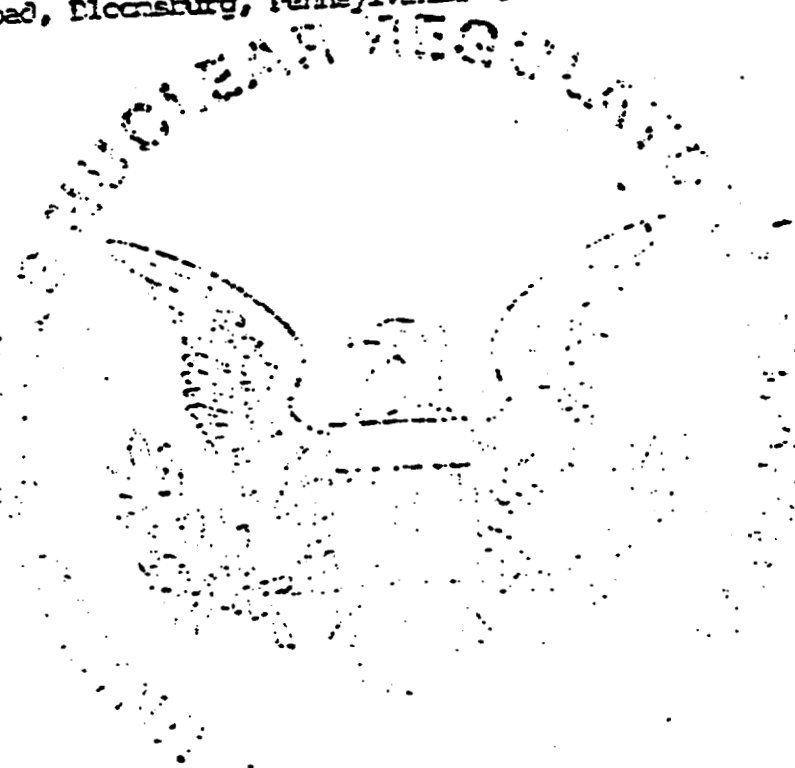
Interchange No. 42

Corrected Copy

Safety Light Corporation
2150-A Old Derwick Road
Bloomsburg, Pennsylvania 17815

In accordance with letter dated January 21, 1951, License Number 37-00000-02
is amended as follows:

The name and address of the licensee are changed from United States Radium Corporation,
2150 Old Derwick Road, Bloomsburg, Pennsylvania 17815 to Safety Light Corporation,
2150-A Old Derwick Road, Bloomsburg, Pennsylvania 17815.



*True & Correct
Mr. Jack Miller
President*

1951

Date

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Original Signed
John W. H. H. H.

By *J. H.* Material Licensing Branch
Division of Fuel Cycle and Radi-
Safety
Washington, D. C. 20555

1953

J. H. W.