

JUN. 28 1989

Docket Nos. 030-05980
030-05981
030-05982
030-08335
030-08444

License Nos. 37-00030-02 ✓
37-00030-07E
37-00030-08
37-00030-09G
37-00030-10G

Safety Light Corporation
ATTN: Mr. Jack Miller
President
4150-A Old Berwick Road
Bloomsburg, Pennsylvania 17815

Gentlemen:

Subject: Special Inspection No. 89-002

On June 16, 1989, Francis M. Costello of this office conducted a special safety inspection at the above address of activities authorized by the above listed NRC license. 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 selective examination of representative records. The findings of the inspection were discussed with you and other members of your staff at the conclusion of the inspection. A copy of the NRC inspection report is enclosed.

The results of this inspection will be discussed with you at an Enforcement Conference at the NRC Region I office in King of Prussia, Pennsylvania on July 6, 1989. As noted in my letter to you dated June 16, 1989, correspondence regarding NRC enforcement actions will be sent after the Enforcement Conference.

In accordance with Section 2.790 of the NRC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosure will be placed in the Public Document Room.

Your cooperation with us is appreciated.

Sincerely,

Original Signed By:
Malcolm R. Knapp

Malcolm R. Knapp, Director
Division of Radiation Safety
and Safeguards

8907200209 890628
REG1 LIC30 PNU
37-00030-02

Enclosure:

Combined Inspection Nos. 030-05980/89-02, 030-05981/89-002, 030-05982/89-002,
030-08335/89-002 and 030-8444/89-002

OFFICIAL RECORD COPY

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JUN. 28 1989

Safety Light Corporation

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cc:

Public Document Room (PDR)
Nuclear Safety Information Center (NSIC)
Commonwealth of Pennsylvania
Norman Fritz, Radiation Safety Officer

USR Industries, Inc.
ATTN: Mr. Ralph T. McElvenny
Chairman and Chief Executive Officer
550 Post Oak Boulevard
Suite 550
Houston, Texas 777027

bcc:

Region I Docket Room (w/concurrences)
Management Assistant, DRMA
F. Costello, RI
M. Weber, NMSS
G. Sjoblom, NMSS
M. Knapp, RI
J. Joyner, RI
J. Gutierrez, RI
D. Holody, RI
J. Kinneman, RI
M. Bell, NMSS
J. Lieberman, OE


RI:DRSS
Costello/ca

6/26/89


RI:DRSS
Kinneman

6/27/89


RI:DRSS
Joyner

6/27/89


RI:DRSS
Knapp

6/26/89

OFFICIAL RECORD COPY

IR SAFETY LIGHT - 0002.0.0
06/26/89

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report Nos. 030-05980/89-002
030-05981/89-002
030-05982/89-002
030-08335/89-002
030-08444/89-002

Docket Nos. 030-05982
030-05981
030-05980
030-08335
030-08444

License No.	<u>37-0030-08</u>	Priority	<u>1</u>	Category	<u>B</u>
	<u>37-00030-02</u>		<u>3</u>		<u>E</u>
	<u>37-00030-07E</u>		<u>5</u>		<u>E</u>
	<u>37-00030-09G</u>		<u>4</u>		<u>E</u>
	<u>37-00030-10G</u>		<u>4</u>		<u>E</u>

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

Facility Name: Safety Light Corporation

Inspection At: Bloomsburg, Pennsylvania

Inspection Conducted: June 16, 1989

Inspectors:

Francis M. Costello
Senior Health Physicist

June 26, 1989
date

Approved by:

John D. Kinnehan
John D. Kinnehan, Chief
Nuclear Materials Safety Section B

6/27/89
date

Inspection Summary: Inspection conducted June 16, 1989 (Combined Report
Nos. 030-05980/89-02, 030-05982/89-002, 030-05981/89-002, 030-08335/89-002,
and 030-8444/89-002)

Areas Inspected: Routine, unannounced inspection, including review of status
of licensed activities, bioassay, radioactive waste inventory and
environmental sampling.

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REG1 LIC30
37-00030-02 PNU

Results: No violations were identified with respect to License Nos. 37-00030-08, 37-00030-07E, 37-00030-08G, 37-00030-10G. One apparent violation identified with respect to License No. 37-00030-02: failure to control access to facility by June 15, 1989, as required by Section VII.A of NRC Order dated March 16, 1989. In addition, with respect to License No. 37-00030-02, the apparent violations identified in Inspection No. 030-05980/86-001 apparently had not been corrected.

DETAILS

1. Persons Contacted

*Jack Miller, President
Larry Harmon, Plant Manager
Normal Fritz, Radiation Safety Officer
Charles Berlin, Radiation Safety Technician
Imogene Parker, Assembly Technician

* Present at exit interview

2. Status of Licensed Activities

Safety Light Corporation is authorized by NRC License No. 37-00030-02 to possess any byproduct material as contaminated equipment and facilities for the decontamination, cleanup, and disposal of such material. No current decontamination activities are being conducted under this license. The failure to perform decontamination activities was cited as an apparent violation in NRC Inspection Report No. 030-5980/86-001. This apparent violation has not been corrected.

On March 16, 1989, the NRC issued an Order which, in part, required Safety Light Corporation to control access to all contaminated areas at the Bloomsburg facility by a fence or other suitable means so as to create a restricted area as defined in 10 CFR 20. About May 15, 1989, the licensee sought bids on this project. Safety Light accepted a proposal, on May 23, 1989, to construct the fence "within seven working days, weather permitting."

The inspector toured the site on June 16 and noted that construction of the fence was underway (as shown in Attachment 1), but was incomplete and that access was not controlled to all contaminated areas. For example, gates planned to be installed across access roads at each end of the administration building had not been installed, and fence fabric had not been installed on posts on the side of the site facing the Susquehanna River. In addition, radiation safety training had not been initiated for employees of Multimetals and USR Metals, individuals who have access to contaminated areas of the licensee's site.

The licensee president noted that rainy weather since May 23 had prevented completion of the restricted area barrier by June 15, and that the licensee's contractor, IT Corporation, would soon submit a proposal to train the employees of tenants at the facility.

The failure to control access to all contaminated areas at the Bloomsburg facility by June 15, 1989 is an apparent violation of Section VII.A of the NRC's March 16, 1989 Order.

The licensee is continuing to monitor water from bore holes on site and at the perimeter of the licensee's property to evaluate the status of radioactive material that was buried on the property during the 1950's and 1960's. Analysis is performed for the licensee by a contractor.

Safety Light Corporation is also authorized by NRC License Nos. 37-00030-08, 37-00030-07E, 37-00030-09G and 37-00030-10G to possess and use any form of hydrogen-3 for research and development, manufacturing, and general and exempt distribution of various products and any byproduct material as sealed sources for use as reference standards. The licensee's current operations include the manufacturing and distribution of luminescent signs, gas chromatograph foils and accelerator targets. The licensee also distributes watch dials which have previously been labelled with tritium.

No violations of the licenses that authorized these activities were noted during the inspection.

3. Bioassays

A licensee representative stated that weekly urinalyses are performed on all individuals working with tritium. The inspector reviewed the licensee's bioassay records for April, May and June, 1989 and determined that the maximum individual urine sample contained 2.2 microcuries of tritium per liter.

No violations were identified.

4. Radioactive Waste Inventory

Licensee records indicated that the current inventory of radioactive waste on site is approximately 22,622 curies, which is within the license limit of 35,000 curies. The licensee's inventory, excluding waste, is approximately 62,611 curies.

No violations were identified.

5. Environmental Sampling

The inspector reviewed bore hole and well water sampling results. It was noted that analyses of on-site subsurface water continue to indicate concentrations of radioactive material in excess of limits for unrestricted areas. The principal isotopes in the subsurface water are strontium-90, radium-226, and tritium.

The licensee also continues to sample drinking water from wells on the properties of nearby residences. The tritium concentration in these samples has varied over the past year from less than detectable to 8,500 picocuries per liter. The licensee's minimum detectable concentration for these analysis is approximately 1,000 picocuries per liter. These samples are taken from the nearby residences on a monthly basis. The EPA standard for tritium in drinking water is 20,000 picocuries per liter.

No violations were identified.

6. Exit Interview

The inspector met with the license president at the conclusion of the inspection. The scope and findings of the inspection were summarized. The inspector emphasized the importance of the licensee complying with all terms of the NRC's March 16, 1989 Order in a timely manner.

ATTACHMENT 1

Combined Inspection Report Nos. 030-05980/89-002, 030-05981/89-002

030-05982/89-002, 030-05335/89-002, and 030-08444/89-002

Bloomsburg Facility Depicted Status of Fence Completion

on June 16, 1989

SUBSUEHANNA RIVER
 DISCH 001

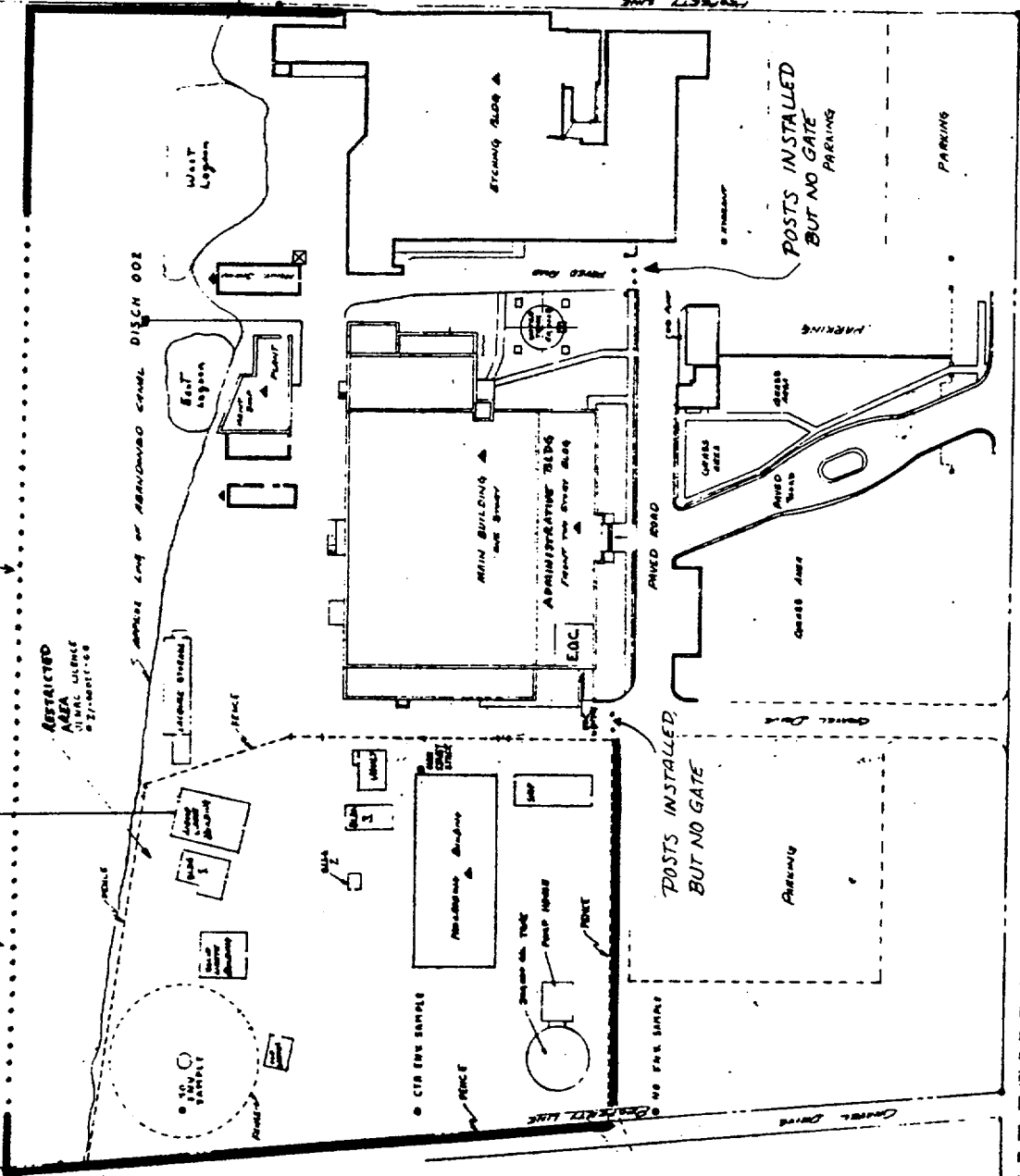
EDGE OF WATER

POSTS INSTALLED,
 BUT NO FENCE

RESTRICTED
 AREA
 (1) NO USE
 (2) NO ACCESS

NEW
 FENCE

NEW
 FENCE



POSTS INSTALLED
 BUT NO GATE
 PARKING

POSTS INSTALLED,
 BUT NO GATE

ACCESS CONTROL
 BARRIERS AS
 OF JUNE 16, 1989

Scale 1"=40'