

## MATERIALS LICENSE

Amendment No. 02

ORC

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.

Licensee		In accordance with letter dated June 24, 1996,	
1. Studsvik, Inc.		3. License Number 12-23768-01E is amended in its entirety to read as follows:	
2. 2209 B Lakeside Drive Bannockburn, Illinois 60015		4. Expiration Date April 30, 2001	
		5. Docket or Reference No. 030-31513	
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 with atomic numbers between 1 - 94	A. Irradiated processed (cut and polished) topaz greater than 30 mg.	A. Not applicable	

## 9. Authorized Use

Pursuant to Section 32.11, 10 CFR Part 32, the licensee is authorized to distribute processed topaz containing byproduct material to persons exempt from the requirements for a license pursuant to Section 30.14, 10 CFR Part 30, or equivalent provisions of the regulations of any Agreement State.

## CONDITIONS

10. Licensed material shall be distributed only from the licensee's facility located at 2209 B Lakeside Drive, Bannockburn, IL.
11. Licensed material shall be distributed by, or under the supervision of, Ken Scottberg, Dr. Roger Dejus, or Dr. Kurt Sköld.
12. This license does not authorize possession or use of licensed material.
13. a. The licensee shall file periodic reports as specified in Section 32.12, 10 CFR Part 32.  
b. The licensee shall file a report at intervals not to exceed 14 months, listing the names and license numbers of recipients of all gems transferred pursuant to Section 30.41 of 10 CFR Part 30.

060043

9611060161 960808  
PDR ADOCK 03031513  
C PDR

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

12-23768-01E

Docket or Reference Number

030-31513

Amendment No. 02

CONDITIONS

(Continued)

14. Notwithstanding the requirements of Section 32.11(c) of 10 CFR Part 32, the licensee may distribute processed topaz for the purpose of being worn by human beings.
15. Except as specifically provided otherwise by 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 U.S. 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. Application dated February 27, 1995;
  - B. Letter dated February 28, 1995;
  - C. Letter dated July 13, 1995;
  - D. Letter dated August 30, 1995; and
  - E. Letter dated June 24, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

*8/8/96*

*CB 8/7/96*

Original signed by:

DATE: August 8, 1996

BY:

Susan L. Greene  
Medical, Academic, and Commercial  
Use Safety Branch  
Division of Industrial and  
Medical Nuclear Safety  
Office of Nuclear Material Safety  
and Safeguards  
Washington, DC 20555

S. Grover

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5. Submit a complete renewal application (with proper fee) or termination request (no fee required) at least 30 days before the expiration date on your license. You should receive a reminder notice approximately 90 days before the expiration date. Continued distribution of products containing radioactive material after your license expires is a violation of NRC regulations.
6. In accordance with 10 CFR 30.36, request termination of your license if you plan to permanently discontinue activities involving distribution of products containing radioactive material.

You will be periodically inspected by NRC. Failure to conduct your program in compliance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC may result in enforcement action(s) against you. This could include issuance of a notice of violation; proposed imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedures for NRC Enforcement Actions," (NUREG-1600).

If you have any questions, please feel free to contact me at (301) 415-7843.

Sincerely,

Original signed by:

DISTRIBUTION:

License File 12-2368-01E  
NMSS r/f  
IMNS c/f  
IMAB r/f  
TWRich  
LWCamper  
Region III

Susan L. Greene  
Medical, Academic, and Commercial  
Use Safety Branch  
Division of Industrial and  
Medical Nuclear Safety  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 030-31513

Enclosure: Amendment No. 02

cc: Thomas W. Ortziger, Director  
Department of Nuclear Safety  
1035 Outer Park Drive  
Springfield, IL 62704

DOCUMENT NAME: G:\STUDSVIK.CJB

To receive a copy of this document, indicate in the box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

OFFICE	IMAB:NMSS								
NAME	SLGreene:cjb								
DATE	08/08/96								

OFFICIAL RECORD COPY

August 8, 1996

Studsvik, Inc.  
ATTN: Stephen F. Grover  
President  
2209 B Lakeside Drive  
Bannockburn, Illinois 60015

Dear Mr. Grover:

Enclosed is Amendment No. 02 amending NRC License No. 12-23768-01E in its entirety.

Please review the enclosed document carefully and be sure that you understand all the conditions. If there are any errors or questions, please contact me so that appropriate corrections and answers can be provided.

Please be advised that you must conduct your program involving radioactive materials in accordance with the conditions specified in your NRC license, representations made in your license application, and other rules, regulations, and orders of the U.S. Nuclear Regulatory Commission, now or hereafter in effect, to include the following:

1. Comply with applicable NRC regulations in 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material"; 10 CFR Part 32, "Specific Domestic Licenses to Manufacture or Transfer Certain Items Containing Byproduct Material"; and other applicable regulations.

NOTE: Licensees authorized to distribute or initially transfer products containing byproduct material must also possess a valid possession license issued either by NRC or an Agreement State(s) which authorizes possession and use of byproduct material.

2. Distribute only those products containing radioactive material which are specifically authorized in your license.
3. Notify NRC in writing within 30 days of any change in mailing address (no fee is required if the location of radioactive material remains the same).
4. Request and obtain appropriate amendments if you plan to change control or ownership of your organization, change locations of distribution of products containing radioactive material, or make any other changes in your program which are contrary to the license conditions or representations made in your license application and any supplemental correspondence with NRC. A license fee may be charged for the amendments if you are not in a fee-exempt category.

# Studsvik

## MEMO

TO: Sandra Kimberley  
License Fee & Debt Collection Branch  
U. S. Nuclear Regulatory Commission

FROM: Stephen F. Grover  
Studsvik Inc.

DATE: July 29, 1996

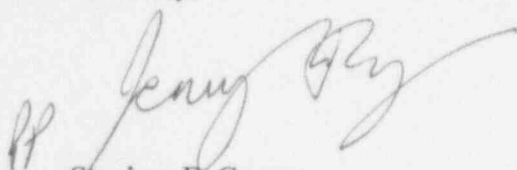
SUBJECT: Material Handling License 12-23768-01E

Please find enclosed, per your request, a check in the amount of \$860 for the amendment to the above referenced license.

Due to the urgency of this matter, I have enclosed a Federal Express envelope and shipping label (paid by Studsvik) in order for you to send the approved amendments back to this office.

If you should need any further information, please do not hesitate to contact me.

Sincerely,



Stephen F. Grover  
President

CC: Susan Greene



## LICENSE FEE REQUIREMENTS

ATTN: Sandra Kimberly, T-9E10  
LICENSE FEE AND DEBT COLLECTION BRANCH  
DIVISION OF ACCOUNTING AND FINANCE  
OFFICE OF THE CONTROLLER  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

301-415-6096

Studs vik, Inc.  
ATTN: Stephen F. Grover  
President  
2209 B. Lakeside Dr.  
Bannockburn, IL 60015

## TYPE OF ACTION

- ☐ NEW LICENSE  
☐ RENEWAL OF LICENSE  
☒ AMENDMENT TO LICENSE

REQUESTED DATE

6/24/96

LICENSE NUMBER

12-23768-01E

CONTROL NUMBER

021857

## I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
31	\$	\$	\$ 860
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE \$

PAYMENT RECEIVED \$

AMOUNT DUE \$

☒ Your request was received without the prescribed application fee.☐ We received your Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. Payment of the additional fee noted above is required.☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE -- LICENSE FEE ANALYST

LFDCB

LFDCB

Distribution:

DATE

OC/OAF/LFARB (LF-3.27) S/F

7/24/96

R/F CC: S. G. HOS

STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY  
1035 OUTER PARK DRIVE  
SPRINGFIELD, ILLINOIS 62704

Jim Edgar  
Governor

217-785-9900  
217-782-6133 (TDD)

Thomas W. Ortziger  
Director

June 27, 1996

Steven Grover  
President  
Studsvik USA, Inc.  
2209 B Lakeside Drive  
Bannockburn, IL 60015

Dear Mr. Grover:

Enclosed is amendment number 1 to your License Number IL-01954-01. For your convenience, the changes are boldfaced on this license amendment.

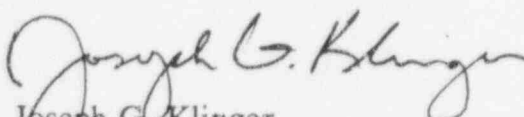
Please review the enclosed document carefully and be sure that you understand all conditions. You must conduct your program involving radioactive material in accordance with the conditions of your Illinois license, representations made in your license application, and Illinois regulations.

You must request and obtain an appropriate amendment if you plan to make any changes in your facility or program. Any amendment request should be accompanied by the appropriate fee specified in 32 Ill. Adm. Code Part 331.

You will be periodically inspected by this agency. Failure to conduct your program in accordance with IDNS regulations and your license will result in enforcement action.

Thank you for your cooperation in this matter. When corresponding with this office, please refer to your License Number and ensure that all items are submitted in duplicate. If you have any questions, please contact the Division of Radioactive Materials, Licensing Section at (217) 785-9947.

Sincerely,



Joseph G. Klinger  
Head of Licensing  
Division of Radioactive Materials

JGK:SMK:ren

Enclosure



recyclable

STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY

# RADIOACTIVE MATERIAL LICENSE

DIVISION OF RADIOACTIVE MATERIALS  
1035 OUTER PARK DRIVE  
SPRINGFIELD, ILLINOIS 62704

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, 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 and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Illinois Department of Nuclear Safety now or hereafter in effect and to any conditions specified in the license. This document confirms that the licensee has registered the sources of radiation listed below in accordance with Section 2 of the Radiation Installations Act.

LICENSEE

Studsvik USA, Inc.  
2209 B Lakeside Drive  
Bannockburn, IL 60015

LICENSE NUMBER

IL-01954-01

EXPIRATION DATE

April 30, 2001

AMENDMENT NUMBER

1

Attention: Steven Grover  
President

In accordance with letter dated June 3, 1996, License Number IL-01954-01 is amended in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Any byproduct material with atomic numbers 1-94 inclusive	Irradiated, processed (cut and polished) topaz greater than 30 milligrams		Total 300 $\mu$ Ci for all byproduct nuclides with Atomic Numbers 1 thru 94 inclusive

AUTHORIZED USE:

A. For storage only incident to transfer to persons exempt from licensing.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY

DATE

PAGE of PAGES

Joseph G. Klinger, Head of Licensing Section

June 27, 1996

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STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Studsvik USA, Inc.	IL-01954-01	1	April 30, 2001

CONDITIONS

1. Radioactive material shall be stored only at the licensee's facilities located at **2209 B Lakeside Drive, Bannockburn**, Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
2. Radioactive material shall be used by, under the supervision of, and in the physical presence of Steve Grover, Kurt Skold or Ken Scottburg.
3. The Radiation Safety Officer for this license is Ken Scottburg.
4. This license does not authorize commercial distribution of radioactive material to persons exempt from licensing requirements pursuant to 32 Ill. Adm. Code 330.40(b) or the equivalent regulations of an Agreement State, Licensing State, or the U.S. Nuclear Regulatory Commission.
5. Only finished topaz, which does not require cutting, grinding, or other processing after irradiation, is authorized for possession and storage under this license.
6. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.
  - A. Application dated December 27, 1995.
  - B. Letters, with attachments, dated February 23, 1996 and June 3, 1996.
  - C. Letter dated March 27, 1996.

JOK:SMK:ren

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Joseph G. Klinger, Head of Licensing Section

June 27, 1996

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IL 473-0059

# Studsvik

030-3/513

June 24, 1996

Ms. Susan Greene  
Office of Nuclear Material Safety & Safeguards  
United States Nuclear Regulatory Commission  
Mail Control No. 021723  
Washington DC 20555-0001

RE: Material Handling License 12-23768-01E

Dear Ms. Greene:

Studsvik would like to have its present license amended so that operations can now take place at our office in Bannockburn. We would like the license amended so that the site of the license and the ability to handle the materials is now at:

Studsvik, Inc.  
2209 B Lakeside Drive  
Bannockburn IL 60015

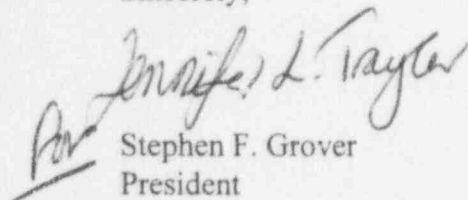
Attached for your reference is a diagram of the office showing that we have now built a separate secured area which will be the only area this material will be stored and/or handled. This area has a full security system and will maintain all proper notices, labeling, etc. to comply with regulations.

No other change is requested. We will have the exact same procedures manual, radiation protection manual, the same authorized users and radiation safety officer.

We have also applied for the same amendment from the State of Illinois for our IDNS license and of course, we will self enjoin any further activities and will not have any shipments come in until these amendments are approved.

Your prompt consideration of this amendment will be greatly appreciated. Once again, thank you for your continued cooperation with Studsvik and our licensing efforts.

Sincerely,

  
Stephen F. Grover  
President

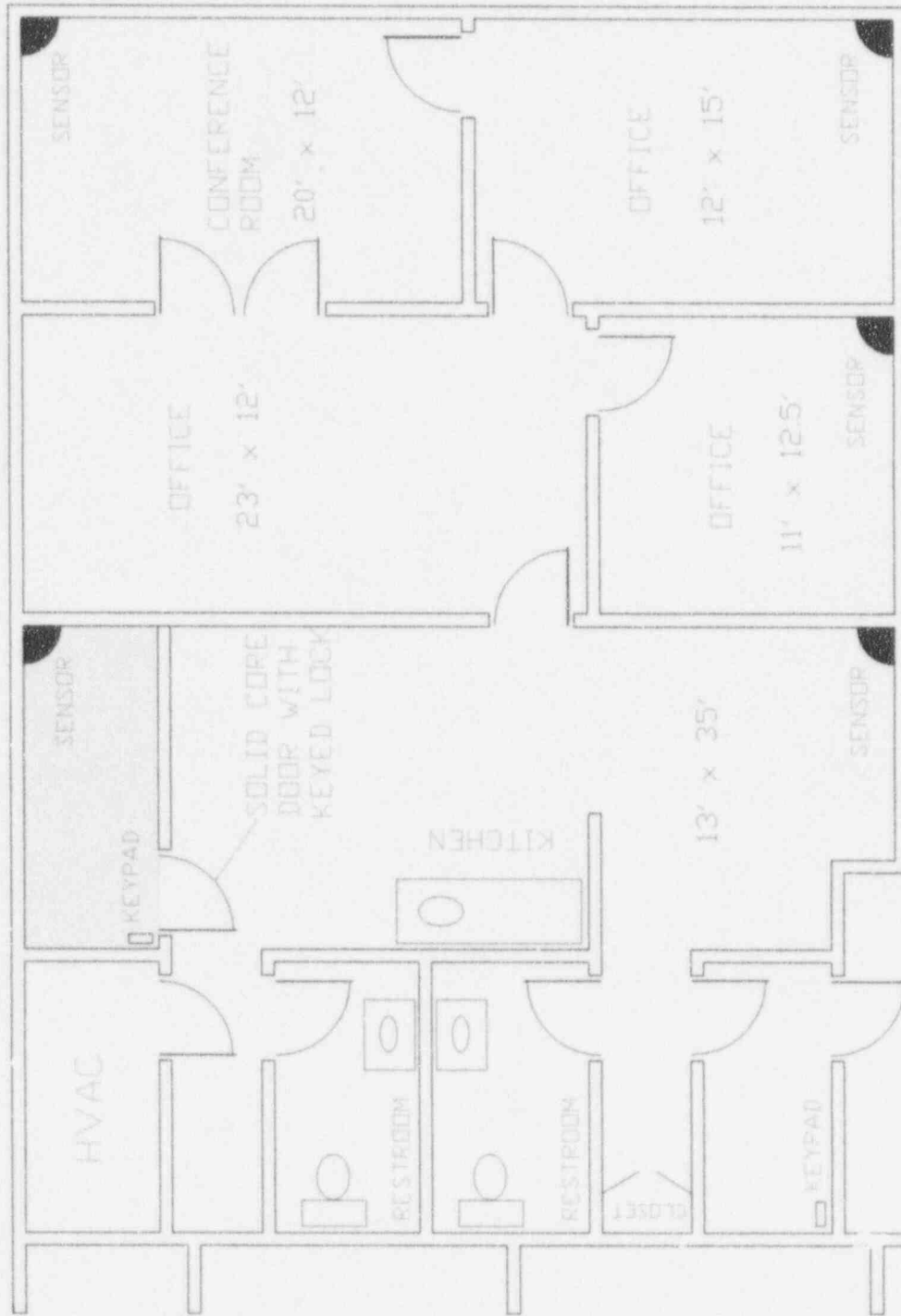
Enc.

STUDSVIK, INC.  
2209 B Lakeside Drive  
Bannockburn, IL 60015

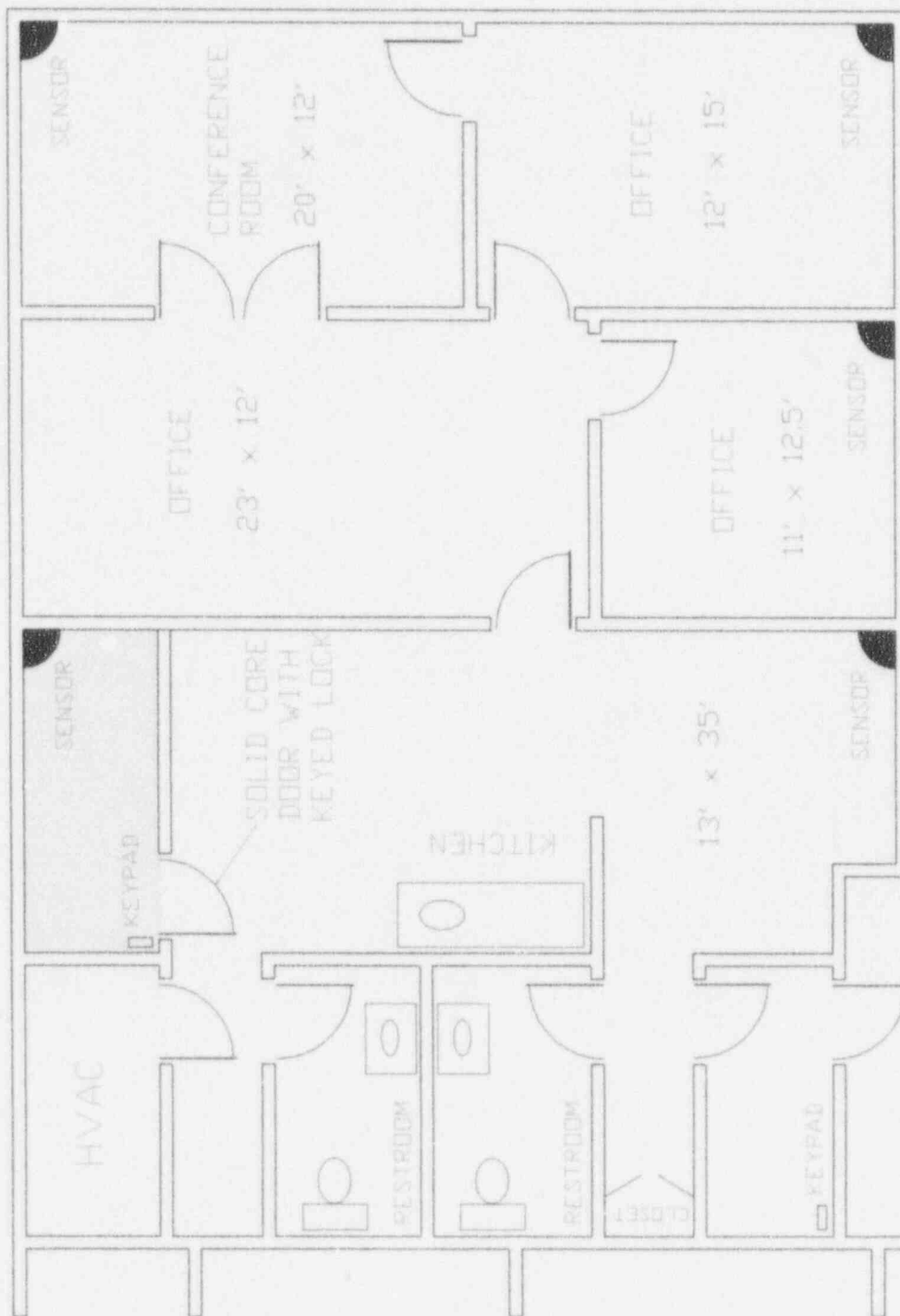
Telephone (847) 604-8018  
Telefax (847) 604-8146

021857

SUITE 2209B  
1,684 SQUARE FEET



SUITE 2209B  
1,684 SQUARE FEET



BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS

Program Code: 03250  
Status Code: 0  
Fee Category: 3I  
Exp. Date: 20010430  
Fee Comments:  
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION HQ/RS

1. APPLICATION ATTACHED

Applicant/Licensee: STUDSVIK, INC.  
Received Date: 960626  
Docket No: 3031513  
Control No.: 021857  
License No.: 12-23768-01E  
Action Type: Amendment

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: /

3. COMMENTS

Signed \_\_\_\_\_  
Date 7/2/96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)

1. Fee Category and Amount: 3I \$ 860

2. Correct Fee Paid. Application may be processed for:

Amendment ☒  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_

Signed \_\_\_\_\_  
Date 7/30/96

Log	<u>Jul. 1 HQS</u>
Remitter	
Check No.	<u>64435</u>
Amount	<u>\$ 860</u>
Fee Category	<u>3I</u>
Type of Fee	<u>AMD</u>
Date Check Rec'd.	<u>7/30/96</u>
Date Completed	<u>7/30/96</u>
By:	<u>SK</u>

1004 JUL - 3 AM 10:55

Licensing Tracking System

PAGE: 1

pls assign  
5LG

DEPT/BUREAU: \_\_\_\_\_ CONT PLAN REQD: N APPRV: \_\_\_\_\_

STREET : 2209 B LAKESIDE DRIVE

CONTACT PERSON: STEPHEN CLOVER      PHONE: 708-604-8018

INSPECTION REGION: 3 PRIORITY CODE: 5 INSPECTION CATEGORY: E2

RADIATION SAFETY OFFICER:

STATES WHERE USE IS AUTHORIZED: 1      0 - ALL LISTED STATES  
  1 - SAME AS STATE IN ADDRESS  
  2 - ALL STATES  
  3 - NON-AGREEMENT STATES

AUTHORIZED STATES:                         (USE ONLY IF ABOVE IS ZERO)

REPORTING IDENTIFICATION SYMBOL:

APPROVAL FOR: REDISTRIBUTION: N STORAGE ONLY: N  
TEMPORARY JOB SITES: N INCINERATION: N  
BURIAL: N

EXEMPTIONS: (1) (2)