

MATERIALS LICENSE

Amendment No. 02

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.

OFFICIAL RECORD COPY

Licensee

1 Centre Analytical Laboratories, Inc.

23048 Research Drive
State College, Pennsylvania 16801In accordance with the letter dated
September 10, 19963. License Number 37-30095-01 is amended in
its entirety to read as follows:

4. Expiration Date February 28, 2004

5. Docket or
Reference No. 030-333596. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This LicenseA. Carbon 14
B. Phosphorus 32
C. Sulfur 35A. Any
B. Any
C. AnyA. 95 millicuries
B. 6 millicuries
C. 10 millicuries

9. Authorized use

A. through C. Research and development as defined in 10 CFR 30.4.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 3048 Research Drive, State College, Pennsylvania and 3058 Research Drive, State College, Pennsylvania.
11. A. Licensed material shall be used by, or under the supervision of, M. Michael Arjmand, Ph.D., Ralph O. Mumma, Ph.D., or Rodger W. Granlund.
B. The Radiation Safety Officer for this license is Rodger W. Granlund.
12. The licensee shall not use licensed material in or on human beings.
13. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
14. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash, provided:
- A. Waste to be disposed of in this manner shall be held for decay a minimum of ten half-lives.

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MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense Number
37-30095-01Docket or Reference Number
030-33359

Amendment No. 02

- B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- C. A record of each such disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
15. Radioactive waste generated shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's letter dated January 5, 1994.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. 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. Application dated October 20, 1993
B. Letter dated January 5, 1994
C. Letter dated February 7, 1994
D. Letter dated March 28, 1994
E. Letter dated July 14, 1994
F. Letter dated September 10, 1996

OCT 10 1996

Date _____

For the U.S. Nuclear Regulatory Commission

Original Signed By:
Pamela J. Henderson

By _____

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

OCT 10 1996

License No. 37-30095-01
Docket No. 030-33359
Control No. 123691

Michael Arjmand
Laboratory Director
Centre Analytical Laboratories, Inc.
3048 Research Drive
State College, PA 16801

Dear Mr. Arjmand:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Prior to release of your old facility for unrestricted use you should be sure that the facilities meet the criteria in the enclosed "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material." You should submit a report of the results of the surveys you performed to this office and refer to this letter.

In accordance with current NRC licensing policy, condition 14 was modified from that appearing in your previous amendment No. 01. Rather than listing specific byproduct material with half-lives greater than 65 days but less than or equal to 120 days, you now have the flexibility to store any byproduct material in waste authorized by your license with half-lives less than or equal to 120 days. Please refer to the enclosed "Guidance to Licensees Regarding Requests to Dispose of Radioactive Waste by Decay-In-Storage".

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:
Pamela J. Henderson

Pamela J. Henderson
Division of Nuclear Materials Safety

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ML 10

License No. 37-30095-01
Docket No. 030-33359
Control No. 123691

Enclosure:

1. Amendment No. 02
2. Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material
3. Guidance to Licensees Regarding Requests to Dispose of Radioactive Waste by Decay-In-Storage

DOCUMENT NAME: R:\WPS\MLTR\L3730095.01

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	<input checked="" type="checkbox"/> N	DNMS/RI				
NAME	PHenderson						
DATE	10/10/96	10/ /96	10/ /96	10/ /96	10/ /96		

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Centre Analytical Laboratories, Inc.

3048 Research Drive
Phone: (814) 231-8032

State College, PA 16801
Facsimile: (814) 231-1253

MS-16
K7

September 25, 1996

Licensing Assistant Section
Nuclear Materials Safety Branch
U S Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia PA 19408

FAX 610 337-6952
License no. 37-30095-01
Docket no. 3033359
Control no. 123691

Attention: Pam Henderson

Dear Ms. Henderson:

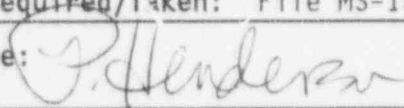
This is in response to your phone call of 24 Sep 96 for additional information related to our license amendment request of 10 Sep 96. The street address for the new building, to which the radioisotope laboratory will be moved is 3058 Research Drive. The mailing address will not change and is the building where the radioisotope laboratory is now located at 3048 Research Drive.

I also understand that we are to provide you with a copy of the final survey of the current radioisotope laboratory, after all radioactive material has been removed and any decontamination completed.

Please let me know, if you need any additional information.

Sincerely,

Rick Grazzini
Vice President

TELEPHONE CONVERSATION RECORD		Conversation Date: September 24, 1996	
Mail Control No.: 123691		License No.: 37-30095-01	Docket No.: 030-33359
Person Called: Rodger W. Granlund Radiation Safety Officer		Organization: Centre Analytical Laboratories, Inc.	Telephone Number: (814) 231-8032
Person Calling: Pamela J. Henderson			
Subject: Amendment request in letter dated September 10, 1996			
Summary: <p>The licensee requested to add a laboratory in a new building to their location of use and to release the laboratory in the currently authorized location of use. However, they did not provide a street address for the new building. Additionally, the licensee stated they would survey the current building and release it for unrestricted use if no contamination was found. They did not mention sending the survey results to the NRC.</p> <ol style="list-style-type: none"> 1. Please provide the address of your new building (number and street name) or some means of differentiating the "old" building from the "new" building if the street address is the same. 2. Prior to release of your "old" building for unrestricted use you must submit a report of the results of the surveys you performed to this office. <p>The licensee stated that they wanted to keep one area in the old building authorized for interim storage should that become necessary in the future. Note: The licensee is currently authorized for interim storage but will not use the authorization unless a waste disposal facility becomes unavailable. I asked that he then differentiate by room number(s) the laboratory that they were surveying for unrestricted use.</p>			
Action Required/Taken: File MS-15			
Signature: 		Date: September 24, 1996	

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ML 10



Centre Analytical Laboratories, Inc.

3048 Research Drive
Phone: (814) 231-8032

State College, PA 16801
Facsimile: (814) 231-1253

Licensing Assistant Section
Nuclear Materials Branch
U. S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19408-1415

030-33359

September 10, 1996

Re: License no: 37-30095-01
Docket no: 030-33359

Gentlemen:

This is to request an amendment to license 37-30095-01 to relocate the radiochemistry laboratory under that license. Centre Analytical Laboratories has constructed an additional 3 story building adjacent to the current address. The radiochemistry laboratory will be moved to the second floor of the new building. The new room is equipped with a double chemical fume hood and has twice the floor space of the current radiochemistry laboratory. Counter surfaces are of smooth chemical resistant material. The use of radioactive material will be the same as in the current laboratory. To date this has only involved ^{14}C .

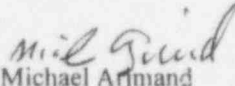
The new building has a room for storage of hazardous material, similar to the room in the current building. Both rooms are equipped with sprinkler systems and separate ventilation systems. Both rooms will be available for storage of radioactive waste, if needed. However, in the past 2 years of operation only about 1 cubic foot of radioactive waste requiring storage has been generated and this has been stored in the laboratory. No storage of radioactive waste outside the laboratory is anticipated as long as the disposal facility at Barnwell, S.C. is open or commercial incineration is available. The storage areas might also be used for temporary storage of deregulated scintillation vials awaiting shipment for disposal.

Floor plans of the new building are enclosed. The room for the storage of hazardous material is on the first floor. The radiochemistry laboratory is on the second floor. Access to the new building will be controlled by a receptionist at the entrance, as is done in the current building.

When the transfer of all equipment and radioactive material to the new radiochemistry laboratory has been completed, the old radiochemistry laboratory will be thoroughly surveyed, including the hood ductwork and sink drain, and released for other uses. This laboratory has been thoroughly checked on a weekly basis since it was opened and there has been essentially no contamination detected. If any decontamination is required, ordinary cleaning procedures will be sufficient.

Please contact the Radiation Safety Officer, Rodger W. Granlund, at this address, if you need additional information. A check for \$690.00 is enclosed for the amendment fee. Your prompt attention to this request is appreciated, as the new facilities are ready for occupancy upon issuance of this amendment.

Sincerely,


Michael Arjmand
President and Laboratory Director

123691

enc. Floor plans

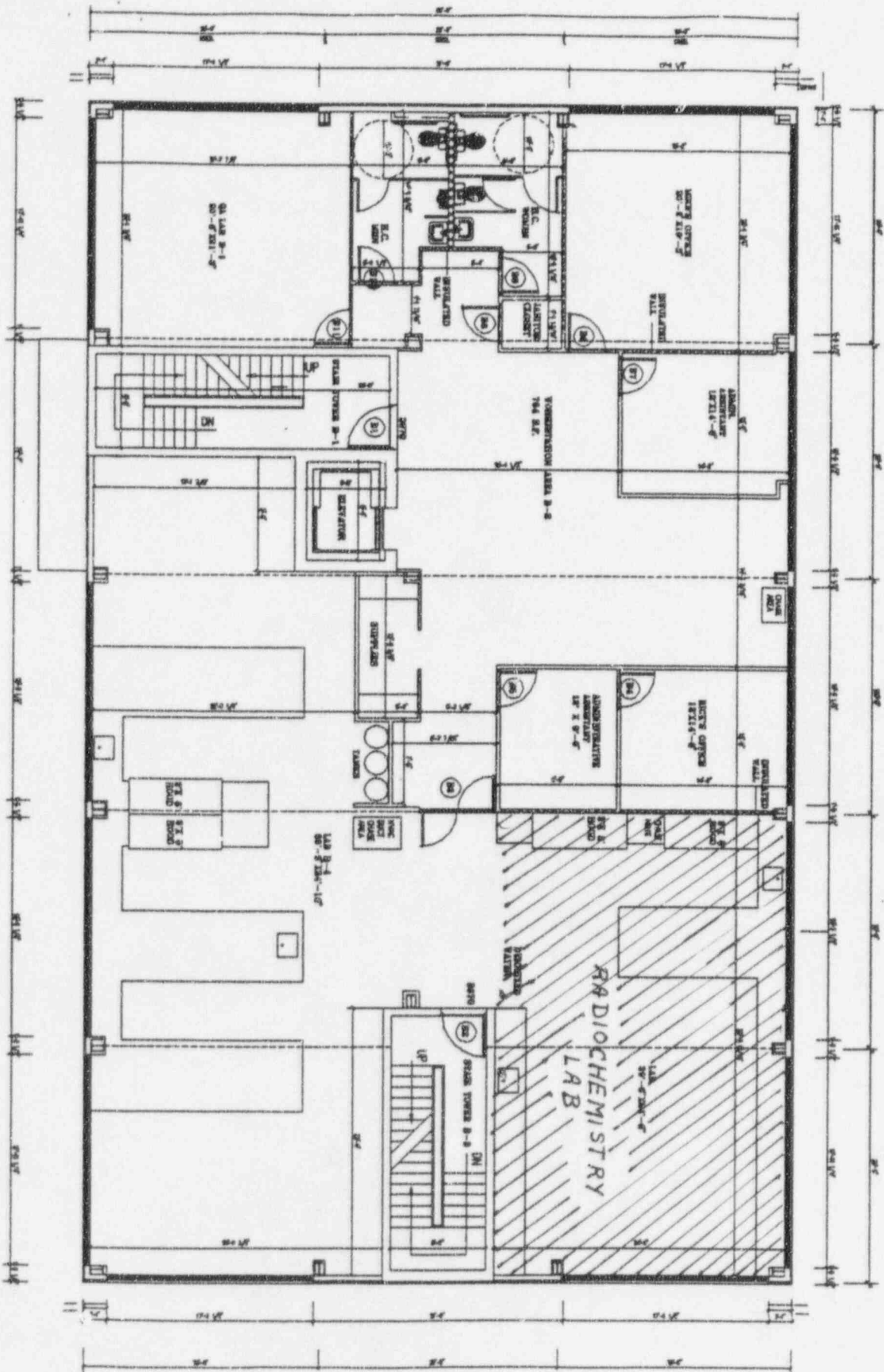
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SEP 16 1996

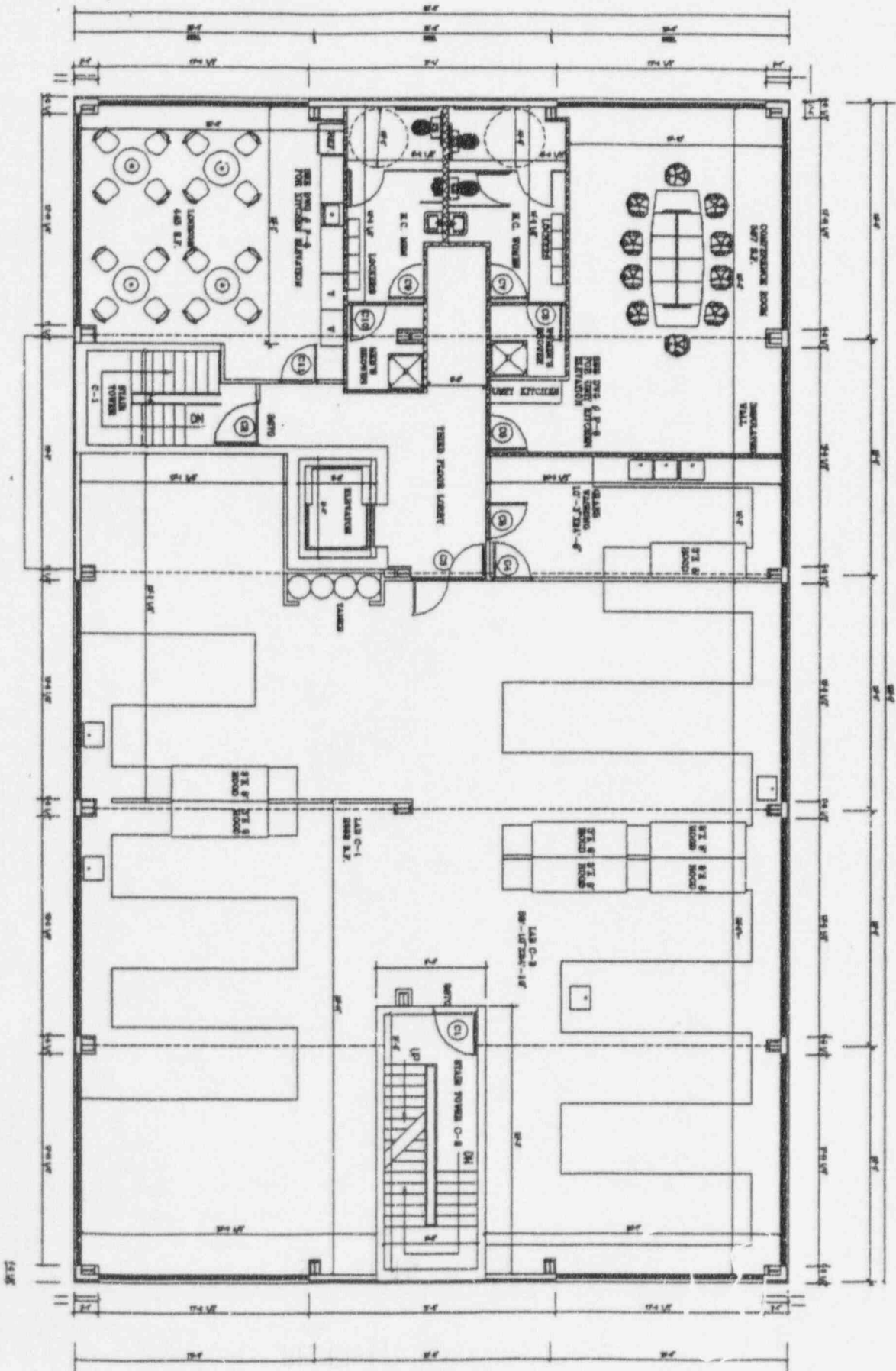


FIRST FLOOR FLOOR PLAN



SECOND FLOOR PLAN

SCALE - 1/4" = 1'-0"



THIRD FLOOR FLOOR PLAN

SCALE = 1/4" = 1'-0"

SEP 2 1996

DIVISION OF ACCOUNTING AND FINANCE

REQUEST FOR REFUND TO EMPLOYEE/VENDOR

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: _____

NAME: CENTRE ANALYTICAL LABORATORIES, INC.

ADDRESS: ATTN: MICHAEL ARTJMAN, PRESIDENT & LABORATORY DIRECTOR

ADDRESS: 3048 RESEARCH DRIVE

CITY: STATE COLLEGE STATE: PA ZIP: 16801

TRANS CODE: PX

TRANS TYPE: FE FUND: X5280 JOB CODE: _____ AMOUNT: \$80.00

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: _____

TOTAL REFUND AMOUNT: \$80.00

COMMENTS: LIC 37-30095-01/CK 6359/3M AND DVP4T

(Limit comments to 40 characters, including spaces)

PREPARED BY: [Signature] DATE: 9/23/96

AUTHORIZED BY: [Signature] DATE: 9/23/96

ORIGINAL INV. NO: _____ DATE PAID: _____ AMOUNT: _____

REFUND ENTERED INTO COLLECT BY: _____

REFUND DETERMINED BY: _____ DATE: _____

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

Aug 25 I (90)
LTR DTD 9/10/96
3M AND FWD IS \$610
123691

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03620
STATUS CODE: 0
FEE CATEGORY: 3M
EXP. DATE: 20040228
FEE COMMENTS:
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: CENTRE ANALYTICAL LABORATORIES, INC
RECEIVED DATE: 960916
DOCKET NO: 3033359
CONTROL NO.: 123691
LICENSE NO.: 37-30095-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$690.00
CHECK NO.: 6552

3. COMMENTS

SIGNED
DATE

M. A. Perkins
9/12/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1)

1. FEE CATEGORY AND AMOUNT: 3M 8610

2. CORRECT FEE PAID: APPLICATION MAY BE PROCESSED FOR:

AMENDMENT
RENEWAL
LICENSE

3. OTHER

1(96)
Log Aug 25
Folio/Sheet
Check No. 6552
Amount 8690 8610 Refunded 880
Fee Category 3M
Type of Fee AM
Date Check Rec'd 9/23/96
Case Completed
By: BB

SIGNED
DATE

1996 SEP 20 PM 2:18