

MATERIALS LICENSE

Amendment No. 07

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. Cuno, Incorporated
Subsidiary of Commercial Intertect Corp.

2. 400 Research Parkway, P.O. Box 1018
Meriden, Connecticut 06450-1018

In accordance with the letter dated
May 14, 1996,
3. License Number 06-27924-01 is amended in
its entirety to read as follows:

4. Expiration Date January 31, 2004

5. Docket or
Reference No. 030-29643

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. Carbon 14
B. Phosphorus 32

A. Any
B. Any

A. 1 millicurie
B. 10 millicuries

9. Authorized use

A. and B. 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 400 Research Parkway, Meriden, Connecticut.
11. A. Licensed material shall be used by, or under the supervision of, Stephanie Hale, Peter Clark, Helen Venter, Gretchen Chiasson, or Rita Andreoli.
B. The Radiation Safety Officer for this license is Helen Venter.
12. Licensed material shall not be used 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 65 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.
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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

06-27924-01

Docket or Reference Number

030-29643

Amendment No. 07

- 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 December 8, 1993.
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. Letter dated August 6, 1993
 - B. Application dated August 19, 1993
 - C. Letter dated December 8, 1993
 - D. Letter dated January 7, 1994
 - E. Letter dated April 15, 1994
 - F. Letter dated January 21, 1995
 - G. Letter dated February 16, 1995
 - H. Letter dated May 14, 1996

Date AUG - 3 1996For the U.S. Nuclear Regulatory Commission
ORIGINAL SIGNED BY:By PENNY A. LANZISERA
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

AUG - 3 1996

Helen Venter, RSO
Cuno, Incorporated
Subsidiary of Commercial Intertect, Inc.
400 Research Parkway, P.O. Box 1018
Meriden, CT 06450-1018

Dear Ms. Venter:

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.

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:

Penny Lanzisera
Division of Nuclear Materials Safety

License No. 06-27924-01
Docket No. 030-29643
Control No. 123384

Enclosure:
Amendment No. 07

DOCUMENT NAME: R:\WPS\MLTR\L0627924.01

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	N	DNMS/RI				
NAME	Lanzisera <i>PL</i>						
DATE	07/30/96	07/	/96	07/	/96	07/	/96

OFFICIAL RECORD COPY **ML 10**



400 Research Parkway, Meriden, Connecticut 06450-1018, U.S.A.
203-237-5541 • Telex: 221083

A Unit of Commercial Intertech Corp.

July 23, 1996

MS 16

P-6

Ms. Penny Lanzisera
Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Mail Control # 123384
RE: # 06-27924-01

Dear Ms. Lanzisera,

The following information is being submitted in response to your inquiry of July 17. Rita Andreoli, Gretchen Chiasson, and Helen Venter have each used a maximum of 250 microcuries of Phosphorous 32 per procedure.

If you have any other questions, please do not hesitate to call me at (203) 238-8928.

Thank you.

Sincerely,

Helen Venter

Helen Venter
Quality Control Microbiologist

cc: C. Barnes, C. Buckland

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ML 10

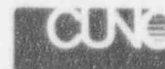
123384

JUL 26 1996

TELEPHONE CONVERSATION RECORD		Date: 7-17-96	Time: 8:30am
Mail Control No.: 123384		License No.: 06-27924-01	Docket No.: 030-29643
Person Called: Helen Venter		Organization: Cuno	Telephone Number: 203 238-8928
Person Calling: Penny Lanzisera			
Subject: Amendment			
Summary: Provide T&E including maximum use per isotope for yourself, Gretchen Chaisson and Rita Andreoli.			
Action Required/Taken: response			
Signature: <i>Penny Lanzisera</i>		Date: 7-17-96	

OFFICIAL RECORD COPY

ML 10



030-29643

A unit of Commercial Intertech Corp.
Cuno, Incorporated
400 Research Parkway, P.O. Box 1018, Meriden, CT 06450-1018
Tele. 203-237-5541

Ms. Penny Lanzisera
Nuclear Regulatory Commission
Region I
475 Allendale Rd.
King of Prussia, PA 19406

RE: Amendment to License # 06-27924-01

5/14/96

Dear Ms. Lanzisera:

The purpose of this letter is to present several changes that are required in our license. If possible, we would you to expedite these changes to our license.

1. Cuno, Inc. has trained a new Radiation Safety Officer (RSO). Her name is Helen Venter. She has received 40 hours of training in accordance with 10 CFR 19.12 which includes "hands on" training using phosphorus 32 from our current RSO, Stephanie Hale, and has attended a 40 hour course off site for RSOs presented by Radiation Safety Associates, Inc. Attachment I contains an outline of the course. Helen Venter's resume is included in attachment II. The amended license should list her as the RSO. This change in RSO was necessitated by a shift in departmental responsibilities for experimental procedures which use the radioactive isotope Phosphorus 32.
2. The amended license should list the use of just Phosphorus 32 and Carbon 14. Hydrogen 3 should be removed. The maximum amount of Phosphorus 32 that will be possessed at any one time should be amended to read 10 millicuries. This increase is necessitated by a business change that will require a quality control test on product using Phosphorus 32. This use is in addition to the research and development use of the material as described in the past application information.
3. We would also like to add two additional employees to the list of those using the radio active material (RAM). These employees have been instructed in accordance with 10 CFR part 19.12 which includes approximately 40 hours of "hands on" training with our current RSO, Stephanie Hale. The license should be amended to include the following names as users: Gretchen Chaisson
Rita Andreoli
Please remove the users Sujata Roy and Katherine Faye from the license. Peter Clark should remain on the license as a user. The resumes of the new users are included in attachment II.
4. RAM will be used in a new laboratory in addition to the laboratory located in the research & development wing submitted in the original application. This new laboratory is under construction and will not be completed until August 1996. At that time, additional storage of RAM will be located in this laboratory to be kept in a locked refrigerator. All waste generated from the new laboratory will be stored in a locked closet within the new laboratory area. The new laboratory, storage refrigerator, and waste area will marked and labeled in accordance with the regulations. Although the existing isotope laboratory will still perform experimental work occasionally using RAM, the primary usage area will be the new laboratory. This new laboratory location is shown on Attachment III.

5. Please contact either Stephanie Hale (203-238-8616), Helen Venter (203-238-8928) or myself, Jacquelyn Brown (203-238-8754) if you have any questions or require additional information.

6. The fee of \$ 690.00 for this amendment is enclosed.

Sincerely,


Jacquelyn S. Brown
Manager of Environmental & Chemical Safety

Attachments

cc C Barnes, C Bennice, C Buckland, F Disinski, S Hale, G. Ostreicher, H Venter

OFFICIAL RECORD COPY ML 10

123384

JUN 28 1996

RADIATION SAFETY OFFICER

COURSE OUTLINE

Prerequisite: None

1. THE ATOM

Atomic Structure
Elements
Isotopes

2. TYPES OF RADIATION

Radiation
Alpha Particles
Beta Particles
Gamma and X-rays
Neutrons
Units of Radiation Energy

3. RADIOACTIVITY AND DECAY

Radioactivity
Decay
 Half-life: the rate of radioactive decay
 Decay constant
Decay Equation
Conservation of Mass, Charge, and Energy
Methods Of Radioactive Decay
 Alpha decay
 Beta decay
 Beta minus
 Positrons
 Gamma rays
 X rays
 Isomeric transition
 Internal conversion
 Auger electrons
 Electron capture
Chart of the Nuclides

Decay Data Tables
Radioactive Series

4. UNITS OF MEASURE

Radioactivity
 The curie
 Subunits of the curie
Radiation
 Radiation exposure vs. radiation dose
 Radiation exposure: the roentgen
 Absorbed dose: the rad
 Dose equivalent: the rem
 Dose and dose rate
 Determination of dose and dose rate
Source Activity Vs. Gamma Exposure Rate
Cpm Vs. Dpm
Specific Activity
SI Units

5. RADIATION INTERACTIONS WITH MATTER

Charged Particle Interactions
 Ionization
 Excitation
 Bremsstrahlung
Photons
 Photoelectric effect
 Compton scattering
 Pair production
Neutron Interactions
 Fast/slow neutron interactions

6. BACKGROUND RADIATION

- Introduction
- Cosmic Radiation
- Radioactivity of the Earth
- Radioactivity Of Air
- Radioactivity Of Water
- Radioactivity in the Human Body
- Artificial (Manmade) Radioactivity
 - Medical and dental exposures
 - Nuclear reactors
 - Transportation
 - Low level waste storage
 - Nuclear reactor accidents
- Summary

7. APPLICATIONS

- X Ray Machines
 - Production
 - Filtering
- Medical Radionuclides
 - Diagnosis
 - Therapy (radiation oncology)
- Linear accelerators
- Nuclear Reactors
 - Boiling water reactor
 - Pressurized water reactor
 - Nuclear fuel
 - Safety
- Radiation Sterilization
- Other Industrial Sources
 - Isotopic neutron sources
 - Oil well logging
 - Level and density gauges

8. BIOLOGICAL EFFECTS

- Introduction
- Cell Damage
- Acute And Delayed Effects
- Somatic And Genetic Effects
- Linear Or Threshold
- Stochastic And Nonstochastic Effects
- Summary

9. PERSONAL DOSIMETRY

- Dose Limits
 - Definitions
 - 10 CFR 20 occupational dose limits
 - Pregnant workers
 - Minors
 - Non-radiation workers
 - Violations
 - ALARA
- Personal Dosimetry
 - Badge placement
 - Film badge
 - Thermoluminescent dosimeter (TLD)
 - Pocket ion chambers
 - Chirpers and alarming dosimeters
 - Neutron dosimeters
 - Control badges
- Regulatory Guide 8.13

10. RADIATION DETECTION AND MEASUREMENT

- Gas-filled Detectors
 - Pulse size considerations
 - Ionization chambers
 - Proportional counters
 - Limited proportionality region
 - Geiger-Müller (GM)
 - Continuous discharge region
- Solid State Detectors
 - Scintillation detectors
 - Semiconductor detectors
- Detector Applications
 - Portable survey meters
 - Calibration programs
 - Laboratory instruments
 - Portal monitors
 - Personnel contamination monitors
 - Whole body counters
- Basic Radiation Spectroscopy
 - Spectrometer
 - Single and multi-channel analyzers

11. REGULATIONS AND GUIDES

- History Of Protective Standards
 - ICRU, ICRP, and NCRP
 - Radiation exposure concerns
 - Basic recommendations
 - Federal policy
 - Regulating agencies
- Other Organizations
- Regulations And Guides
 - 10 CFR 19
 - 10 CFR 20
 - 10 CFR 30
 - 10 CFR 40
 - 10 CFR 70
 - 10 CFR 71
 - 10 CFR 74
 - Regulatory guides
 - NUREGs
 - American National Standards Institute (ANSI) Standards
 - Information notices

12. EXTERNAL EXPOSURE CONTROL AND SURVEYS

- ALARA
 - 10 CFR 20
 - Current ALARA-related regulatory guides
- Radiation Exposure Control
 - Time
 - Distance
 - Shielding
- Administrative Controls
 - Radiation work permits
- Access Control
 - 10 CFR 20
- Posting and Control
 - 10 CFR 20
- Surveys
 - 10 CFR 20
- Survey Form Contents
- Regulatory Guide 8.21

13. DISTANCE AND SHIELDING

- Distance
 - Point sources
 - Line sources
 - Plane sources
- Shielding
 - Beta
 - Gamma
 - Neutron

14. CONTAMINATION CONTROL

- Radiation Vs. Contamination
- Survey Methods
 - Loose contamination
 - Total contamination
- Wipe Test Evaluation
- Statistical Considerations in a Counting Program
 - Accuracy and precision
 - Normal probability distribution
 - Standard deviation
 - Confidence levels
 - Minimum detectable count rate (MDCR)
 - Minimum detectable activity (MDA)
 - Changing the MDA
- Survey Frequency And Limits
- Protective Clothing
- Self-Frisk
- Personnel Decontamination
- Skin Dose Assessment
 - Skin dose calculation
 - Documentation
- Survey Documentation
- Posting and Control of Contaminated Areas
- Equipment And Area Decontamination

15. AIR SAMPLING AND EVALUATION

Types Of Airborne Contaminants
Sample Collection
Air Sample Accuracy
 Total sample volume
 Efficiency of collection medium
 Counting efficiency
 Representative sample
Calculation Of Airborne Concentrations
Lower Limit Of Detection (LLD)

16. INTERNAL EXPOSURE CONTROL AND DOSE ASSESSMENT

ALARA
Annual Limit On Intake (ALI)
Derived Air Concentration
 Derived air concentration-hour
Assessing Body Burden
Bioassay Methods
 Whole body counting
 Radiourinalysis
 Fecal analysis
Bioassay Programs
Calculating Internal Dose
Examples of Dose Calculations
Removing Internal Contamination
Required Postings
 Airborne radioactivity area
Regulatory Guide 8.20
Regulatory Guide 8.32

17. SOURCE HANDLING TECHNIQUES/RADIOACTIVE MATERIAL CONTROL AND DISPOSAL

Definitions
 Sealed source
 Source material
 Special nuclear material
Regulations And Procedures
 10 CFR 20
 10 CFR 30

10 CFR 40
10 CFR 70/74

Exempt vs. Nonexempt Quantities of Radioactive Material
Responsibilities
Use And Precautions
Labeling
Master Index
Leak Testing
Storage Limitations
Disposal
Receiving Packages
Container Labels
Exemptions From Labeling Requirements
Disposal Of Empty Radioactive Material Containers
Storage And Control
Posting
Exceptions From Posting Requirements
Loss or Theft of Licensed Material
Industry Events
Radioactive Waste - Definition
Radwaste Minimization
Radwaste Treatment
 Storage for decay
 Evaporation
 Dilution and release
 Filtration and deionization
 Incineration
 Compaction
 Solidification
Waste Disposal
 Disposal facilities
Packaging
 Physical form
 Strong tight containers
 Type A containers
 Type B containers
 Warning labels on packages
 Contamination limits on packages
 Radiation limits during transport
 Vehicle placarding
 Other methods
Source Handling Incidents
NRC Information Notice 88-32
NRC Information Notice 90-35

18. LICENSE REQUIREMENTS AND THE RADIATION PROTECTION PROGRAM

- Notice Of Expiration
- Application-NRC Form 313
- Radiation Protection Program
 - ALAKA
 - Procedures
 - Training
 - Document Posting
 - Surveys
 - Legal Aspects
- Procedural Compliance
 - Fundamentals of excellence
 - Pitfalls
- Ways for Health Physicists to Minimize the
Chances of Being Sued

19. EMERGENCY PLANNING

- Introduction
- The Emergency Plan
- Emergency Response Organization
- Characterization of Installation and Facilities
- Licensed Activities
- Emergency Plan Implementation
- Response Actions
 - Assessment Actions
 - Protective Actions
 - Corrective Actions
- Facilities And Equipment
- Offsite Agreements And Support
- Re-entry And Recovery
- Maintaining Emergency Preparedness
- Notifications

20. AUDITS

- Introduction
- In-House Audits
- Who Should Audit?
- What Should Be Audited?
- Performing An Audit
 - Audit Preparation
 - Audit Performance
- Audit Follow-Up
- Suggested Audit Finding Format
- Closing Out Previous Audits
- Dealing With Findings
- Handling A Regulatory Audit
- Other Regulatory Action
- General Comments

EXPERIENCE:

June 1988-
Present

LOCTITE CORPORATION - Research, Development & Engineering Group
1001 Trout Brook Crossing
Rocky Hill, Connecticut

Present Title: **Analytical Chemist II**

Duties:

- Provide support to assigned Developmental Projects through analytical instrumentation, and quantitative & qualitative analyses, by developing new test methods and/or utilizing standard test methods.
- Provide assistance and outside customer support directly through RD&E, Marketing, Sales, and/or Technical Support & Development through analyses utilizing analytical instrumentation and methodology.
- Inter- and intra-departmental communication by submitting written and/or verbal reports about analyses and results.
- Prioritize daily schedule.
- Contact vendors for instrument/equipment procurement and/or servicing, and ordering supplies, such as for the FT-NIR, FT-IR, UV/VIS, and HPLC.
- Continue analytical research methodology on FT-IR & FT-NIR Silica/SiOH analysis.

Received 1991 Significant Achievement Award for method development ("Silanol Content of Polydimethylsiloxane Fluids by FT-IR").

Instrumentation usage: FT-IR (Mid & Near), HPLC, UV-VIS, GC, and AAS. GPC, IC, Thermal Equipment (DSC, TMA, & TGA), and Zymark Robotics for GPC sample preparation as required. Some wet chemical analyses and SEM/EDS usage.

Software usage: DOS based Windows; Microsoft Word & Excel, TurboChrom, Mattson FIRST, LabCalc, Grams/386, Paradox for Windows, On-Time. NIC/OS (Nicolet 205) and PC/IR (Nicolet 5PC).

Sept. 1986-
June 1988

STANLEY WORKS - Research Laboratory
1309 Corbin Avenue
New Britain, Connecticut

Title: **Laboratory Scientist B**

Duties:

- Performed analysis on paints, oils, adhesives, plastics, rubbers, and coatings for production related problems.

Instrumentation usage: Dispersive IR, GC, DSC, and TGA. Some wet chemical analyses and SEM/EDS usage.

April 1979-
Sept. 1986

HEUBLEIN, INC. - Technical Services, R&D
430 New Park Avenue
Hartford, Connecticut

Title: **Sr. Technical Specialist**

Duties:

- Started as an analytical technician performing routine analysis of alcohol beverages.
- Promoted to Sr. Analytical Chemistry Technician responsible for analyzing both raw materials and finished products of Food and Alcohol Beverages, maintaining instrumentation, and assisting chemist in procedure development.
- Promoted to position of Sr. Technical Specialist responsible for analyses required by Quality Assurance, New Product Development, and Quality Control. Supervising analytical laboratory operations and responsible for training/development of Sr. Analytical Technician on instrumentation and wet chemical analysis. Responsible for procedure development approved by A.O.A.C., F.D.A., and U.S. Pharmacopoeia, and interacting with vendors in procuring equipment and supplies.

Oct. 1978-
Feb. 1979

UNIROYAL, INC. - Physical Testing, R&D
Oxford, Connecticut

Title: **Physical Testing Laboratory Assistant**

Duties:

- Tested rubber samples by certified A.S.T.M. techniques, such as the Scott Tensile/Tear Strength, Pico Abrasion, and Yersley Compression.

ACTIVITIES:

Member of American Chemical Society (A.C.S.), Society for Applied Spectroscopy (S.A.S.) & Board member of the Eastern Analytical Symposium (E.A.S.); Enjoys racquetball, Nautilus/free weights, skiing, camping, bicycling, photography, platform tennis, and tennis.

EDUCATION: University of Connecticut, Storrs, Connecticut
Degree: B. S. Biology, 1978 (Minor Chemistry/Pathobiology).

Saint Joseph College, West Hartford, Connecticut
Degree: M. S. Chemistry, 1985. Thesis: "Separation and Identification of Emulsifiers in Soft Serve Ice Milk"

PUBLICATIONS: Strunk, D., et al, Journ. of A.O.A.C., "Determining Proof of Liqueurs and Alcoholic Dairy Products", R. J. Andreoli (collaborator), published June 1983. p.1148.

RESUME

Gretchen M. Chiasson

101 Queen Street
Bristol, CT 06010
860-314-1139

Work Experience

Cuno, Inc

400 Research Parkway
Meriden, CT 06450

Q.C. Microbiology Technician, Group Leader - 1/87 to present

Responsibilities:

1. Bacterial challenge of all pharmaceutical grade cartridges
2. Endotoxin, extractables, oxidizables testing of all pharmaceutical grade cartridges
3. Scheduling of Q.C. audit testing
4. Knowledge of other physical membrane tests, such as initial bubble point, water flow, foam all over point
5. Training in Southern Blot techniques

Education

Salve Regina University - B.S. in Chemistry
Newport, RI

HELEN VENTER

27 Palmer Drive
Meriden, CT 06450
(203)2355

OBJECTIVE

POSITION IN A MICROBIOLOGY LABORATORY

PROFESSIONAL EMPLOYMENT

February 1995 -
Present

CUNO, INCORPORATED
MERIDEN, CT

QUALITY CONTROL MICROBIOLOGIST

- o Evaluate pharmaceutical grade fluid purification cartridges for total extractables, oxidizable substances, and bacterial endotoxins
- o Bacterially challenge cartridges and assess results
- o Analyze in-plant water samples for total aerobic growth and bacterial endotoxins
- o Identify contaminants
- o Determine quality of flatstock membrane using human genomic Southern blot technique

November 1994 -
February 1995

BRIDGEPORT HYDRAULIC COMPANY
BRIDGEPORT, CT

MICROBIOLOGY TECHNICIAN

- o Tested distribution and raw water samples using *Standard Methods* membrane filtration
- o Assessed plated samples for presence of total coliforms, fecal coliforms, and fecal streptococci
- o Conducted confirmatory tests for *Escherichia coli*
- o Ascertained turbidity, apparent color, and odor of water samples

April 1993 -
October 1993

**ENVIRONETICS, INCORPORATED
BRANFORD, CT**

ASSOCIATE, RESEARCH AND DEVELOPMENT

- o Investigated optimal growth conditions of yeasts under examination for defined substrate technology (DST)
- o Evaluated techniques for quantification of *Escherichia coli* in water
- o Ordered and maintained laboratory supplies
- o Performed supportive work for enzymologist involved in yeast DST study

1983 - 1993

FAMILY MANAGEMENT

1978 - 1982

**BEIERSDORF, INCORPORATED
SOUTH NORWALK, CT**

1981 -1982

SUPERVISOR, QUALITY CONTROL

- o Revised and expanded standard operating procedures and media manuals according to FDA specifications
- o Developed alternate, less-costly, sterilization facilities for products
- o Interviewed, hired, trained, and evaluated microbiology employees
- o Ordered and maintained constant stock of routine supplies
- o Initiated and negotiated purchase of major laboratory equipment
- o Site visited sterilization facilities and co-ordinated methods for measuring efficacy of sterilization
- o Evaluated irradiated devices and established a dosimetric release program

1978 -1981

QUALITY CONTROL MICROBIOLOGIST

- o Trained in aseptic technique
- o Identified contaminants using traditional as well as rapid

- o Sterility tested medical devices; microbiologically tested raw materials, finished products, water and air samples
 - o Ascertained sterility of plant equipment
 - o Analyzed results of challenge tests in written reports
 - o Resolved customer complaints pertaining to microbiology
-

PROFESSIONAL AND COMMUNITY ACTIVITIES

1992 - Present	Member	Leo Rettger Society, American Society of Microbiology
1991 - Present	Fund Raising	St. Stanislaus School, Meriden, CT
1991 - 1993	School Volunteer, Co-chair, School Lunch Program	St. Stanislaus School Meriden, CT
1985 -1990	Fund Raising Charitable Services	Church of the Resurrection Wallingford, CT

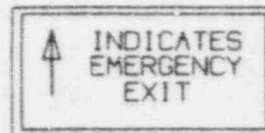
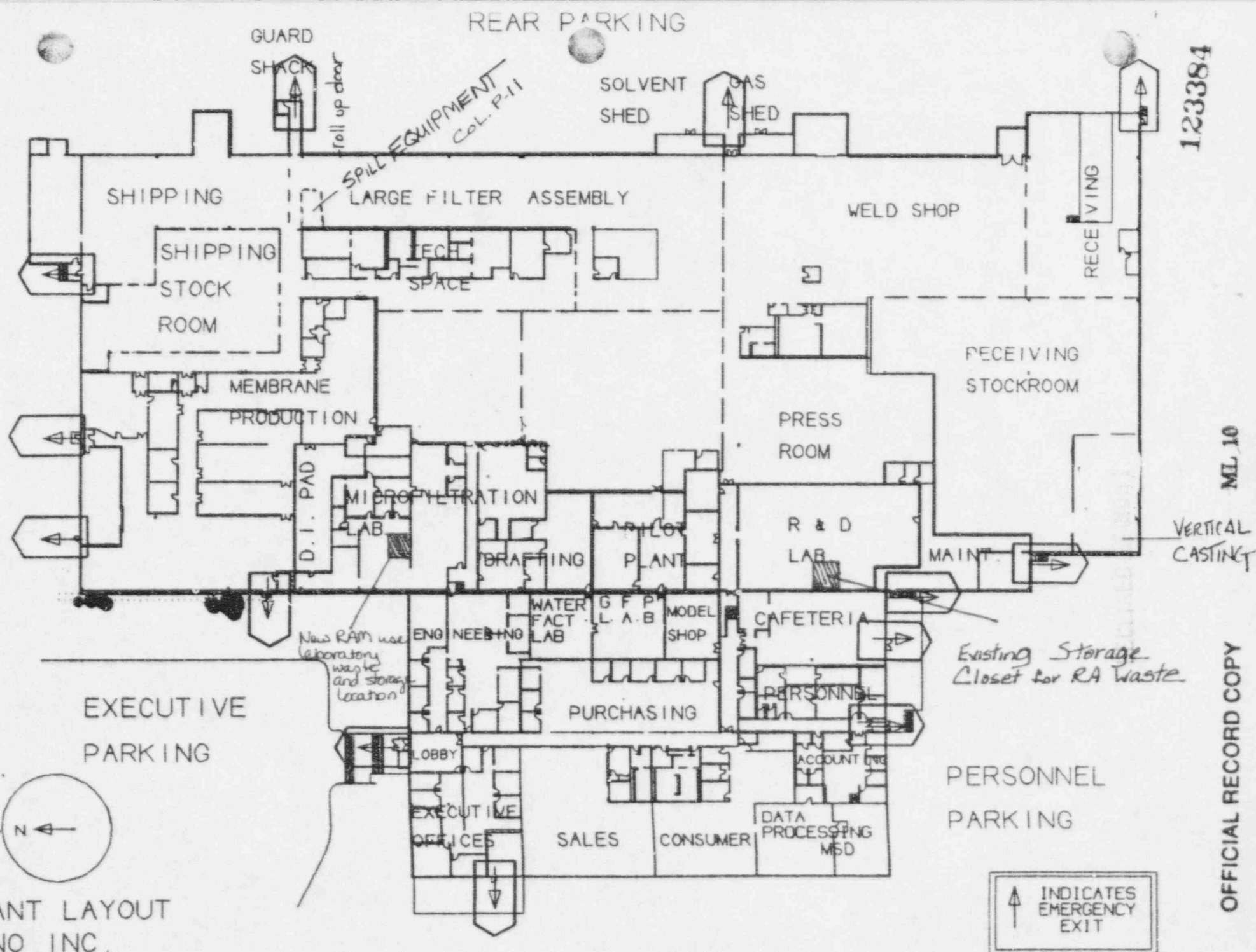
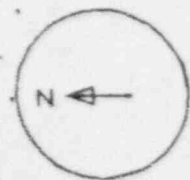
EDUCATION

QUINNIPIAC COLLEGE, HAMDEN, CT
Graduate Course, Medical Mycology, 1979

QUINNIPIAC COLLEGE, HAMDEN, CT
B.S., *summa cum laude*, 1979
Major: Clinical Microbiology

ELMIRA COLLEGE, ELMIRA, NY
B.A., *cum laude*, 1973
Major: Art

PLANT LAYOUT
GUNO INC.



123384

ML 10

OFFICIAL RECORD COPY

DIVISION OF ACCOUNTING AND FINANCE
REQUEST FOR REFUND TO EMPLOYEE/VENDOR

JUL 17 1996

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: CUNO, INC.

ADDRESS: ATTN: JACQUELYN S. BROWN

ADDRESS: 400 RESEARCH PARKWAY, P.O. Box 1018

CITY: MERIDEN STATE: CT ZIP: 06450-1018

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 06-27924-01/CK 039,70/3m AND OVERPAY

(Limit comments to 40 characters, including spaces)

PREPARED BY: Brenda Jones DATE: 7/16/96

AUTHORIZED BY: Sandra Kimbrell DATE: 7/16/96

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

REFUND ENTERED INTO COLLECT BY: _____

REFUND DETERMINED BY: _____ DATE: _____

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

July 4 I (46)
LTR DTD 5/14/96
3m AND OVERPAY
3m AND FEE is \$610
(123384)

(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: 20040131

FEE COMMENTS:

DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: CUNO, INCORPORATED
RECEIVED DATE: 960628
DOCKET NO: 3029643
CONTROL NO.: 123384
LICENSE NO.: 06-27924-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$ 690.00
CHECK NO.: 039170

3. COMMENTS

SIGNED
DATE

Rebecca J. Brown
7-9-96

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

1. FEE CATEGORY AND AMOUNT: 3M \$610

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

AMENDMENT ☒
RENEWAL ☐
LICENSE ☐

3. OTHER

SIGNED
DATE

LBrown
7/10/96

Log	July 4
Remitter	
Check No.	039170
Amount	\$690 \$610 Refunded \$80
Fee Category	3M
Type of Fee	AMO
Date Check Rec'd	7/10/96
Date Completed	
By	<i>LBrown</i>

1996 JUL 12 PM 12:29

1996 JUL 12 PM 12:29