CYANAMID

AMERICAN CYANAMID COMPANY
Consumer Products Research Division
697 Route 46
Clifton, N.J. 07015
(201)365-6000

December 19, 1984

United States Nuclear Regulatory
Commission Region I
631 Park Avenue
King of Prussia, PA 19406

Attn: John E. Glenn, Ph.D., Chief
Materials Program Section No. 2
Division of Engineering and Technical Programs

Dear Dr. Glenn:

We wish to amend NRC Materials License number 29-21102-01, Docket No. 030-19784, to add the use of licensed material in the Consumer Products Research Division Microbiology Laboratory. Enclosed are the appropriate sections for inclusion in the current license. The list of elements are shown to indicate the other chemical forms which will be used. The maximum amounts of each radioisotope, in any form allowed at any one time under the current license, will not be exceeded. The Microbiology Laboratory plans to begin use of the radioisotopes in January.

If you have any questions concerning the amendment, please call me at (201) 365-6239.

Sincerely,

Robert F. Draeger

Robert F. Draeger
Industrial Hygienist

RFD:es
Enclosure

"OFFICIAL RECORD COPY"

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6. Individual(s) Who Will Use or Directly Supervise the Use of Licensed Material

c. Diane L. Mauriello - B.S.,M.S., Doctoral Candidate Research Microbiologist MRS/PRS

d. Larry R. Feldberg - B.S., Research Microbiologist MRS/PRS

8. Licensed Material

The additional materials are within the limits of the listed isotopes, including the following:

	Element-Mass#	Chemical Form	Sealed Source
(17)	Hydrogen-3	Peptides and proteins	N.A.
(18)	Carbon-14	Peptides and proteins	N.A.
(19)	Phosphorous-32	Sealed source	Amersham Co.
(20)	Sulfur-35	Nucleotides	N.A.
(21)	Sulfur-35	Sealed source	Amersham Co.

8E. Use of Licensed Material

(17) Radioactive tracers will be used for liquid, protein and sugar metabolic studies in laboratory and human bacterial isolate strains of commensals.

(18) Radioactive tracers will also be used for mutagenic, recombinant and gene cloning experiments in various commensal strains of laboratory bacteria.

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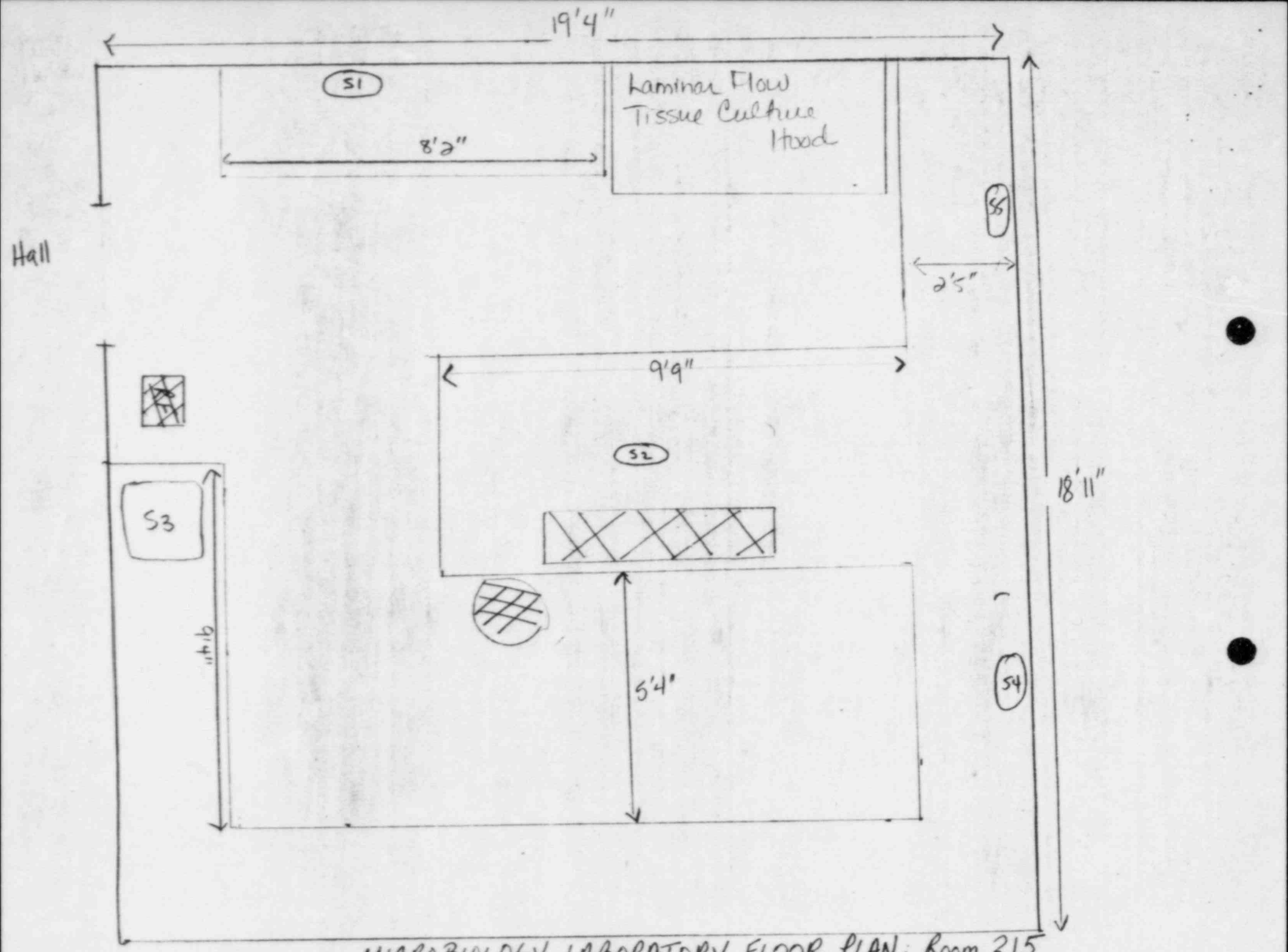
13. Facilities and Equipment

a. Laboratory Facilities

Microbiology Laboratory

The microbiology laboratory (Room 215) is located on the second floor in building #3. The laboratory is equipped with advanced instrumentation, storage cabinets, a large sink, four small sink ports, vacuum and gas outlets, a refrigerator/freezer and a laminar flow hood. The laboratory dimensions are 18 feet 11 inches by 19 feet 4 inches. Isotopes will be confined soley to this laboratory (see floor plan) which is a constituent lab in MRS/PRS Consumer Products Division of American Cyanamid Company, Research Division of Shulton. Isotope areas are designated by crossbar markings in the floor plan design. Specifically marked areas, containers, pipettes, etc. and a radioactive waste container will be located adjacent to the work area as indicated. A refrigerator/freezer is located to the right of the laboratory entrance. This will be appropriately marked with Radioactive warnings and will serve as the frozen storage for the isotopes in Room 215.



MICROBIOLOGY LABORATORY FLOOR PLAN: Room 215

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EXPERIENCE AND FORMAL TRAINING

DIANE L. MAURIELLO, B.S.,M.S., Doctoral Candidate

EDUCATION

Montclair State University, Upper Montclair, N.J. B.S., Biology and Chemistry, 1975

Seton Hall University, South Orange, N.J. M.S., Cell Biology, 1977

University of Medicine and Dentistry of New Jersey, Newark, N.J. Microbiology, 1977 to present, ABD

PROFESSIONAL AND TEACHING EXPERIENCE

Research Microbiologist, Microbiological Research Services, Professional Research Services, Consumer Products Research Division, American Cyanamid Company, 1982 to present.

Assistant Professor of Biology, St. Peter's College, Jersey City, N.J. Department of Biology, 1982-1983.

Medical Microbiologist/Phlebotomist, Dept. of Microbiology, Overlook Hospital, Summit, N.J., 1980-1984.

Teaching Fellow, 1978-1982; Predoctoral Research Assistant 1979-1982, University of Medicine and Dentistry of New Jersey, Dept. of Microbiology.

Graduate Research Assistant, Dept. of Biology, Seton Hall University, South Orange, N.J., 1976-1977.

Undergraduate Teaching Assistant, Dept. of Biology, Montclair State University, Upper Montclair, N.J., 1973-1975.

PUBLICATIONS

1. Mauriello, D.L., 1979. 2-Deoxy-D-Glucose selectively inhibits Fc-mediated phagocytoxis in mouse peritoneal macrophages and the macrophage-like transformed cell line J774. FEBS Letter and the University of Medicine and Dentistry of N.J. Research Report.

2. Mauriello, D.L. and Jansons, V.K., 1982. The effect of monensin on mouse peritoneal macrophages. Experimental Cell Research.

3. Mauriello, D.L. and Jansons, V.K., 1982. Monensin inhibits the secretion of lysozyme by mouse nonstimulated peritoneal macrophages. FEBS Letter.

4. Mauriell, D.L. and Jansons, V.K., 1982. The effect of lysosomotropic agents on the secretion of lysozyme and glycosidase lysosomal enzymes by nonstimulated peritoneal mouse macrophages. Biochemica et Biophysica Acta.

5. Mauriello, D.L. and Jansons, V.K., 1982. The effects of monensin on the secretion of lysosomal enzymes by mouse nonstimulated peritoneal macrophages. Journal of Cell Biology Abstracts.

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EXPERIENCE AND FORMAL TRAINING

Larry R. Feldberg, B.A.

EDUCATION

Brooklyn College, Brooklyn, N.Y., B.A., Biology, 1979.

PROFESSIONAL AND TEACHING EXPERIENCE

Research Microbiologist, Microbiological Research Services; Professional Research Services, Consumer Products Research Division, American Cyanamid Company, 1983 to present.

Research Teaching Assistant; Department of Microbiology; University of Medicine and Dentistry of New Jersey, 1979-1983.

PUBLICATIONS

1. Kaback, D. and Feldberg, L., 1983. Transcript Accumulation in sporulating yeast. Cetus Symposia on Gene Expression.

2. Kaback, D. and Feldberg, L., 1983. Yeast exhibits a sporulating specific program of transcript accumulation. Molecular and Cellular Biology.

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

Fee Needed

1. APPLICATION ATTACHED

Applicant/Licensee: American Cyanamid Company

Application Dated: 12/19/84

Control No.: 03254

License No.: 29-21102-01

2. FEE ATTACHED

Amount: 0

Check No.: 0

3. COMMENTS

Signed Brenda Platchek

Date 12/26/84

10/31/87

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3M $120

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

Amendment ✓

Renewal

License

Signed Ingrid Brown

Date 1/28/85

1/29/85

REGION I FORM 213
(MARCH 1983)