

1683765
The Goodyear Tire & Rubber Company

Akron, Ohio 44316-0001

January 7, 1988

U. S. Nuclear Regulatory Commission
Region III
Material Licensing Section
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Amendment to NRC License 34-00508-06

Reference: April 22, 1985 Application and May 14, 1986 Letter

At this time, we are in need of several changes to our 34-00508-06 License. The changes are detailed below.

1. Change the list of users listed in Item 11 of Amendment 25 as indicated here:

Present List

P J Reilly
J J Myron
W R Miller
R R DiRossi
J H Lui
L A Sikora
J L Holtshouser

Change To

L A Sikora
D A Shreve
J L Holtshouser
D Tung

2. Remove P J Reilly as the Radiation Protection Officer. He is to be replaced by D A Shreve who has attended the Occupational and Environmental Radiation Protection Course at the Harvard School of Public Health (certificate attached). The duties of the RPO, as presented in Item 5 of our May 14, 1986 letter, will remain the same.

3. Item 7.1 of our April 22, 1985 Application; Supervision:

Radioactive materials are to be used by or under the supervision of individuals designated by the Radiation Safety Committee. The Chairman of the Committee is J L Holtshouser, Corporate Radiation Protection Officer. D A Shreve will supervise activities in Rooms 261 and 270.

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CONTROL NO. 84709

4. Item 7.2 of our April 22, 1985 Application; Individual responsible for Radiation Safety Program. Change this section to read as follows:

The individual responsible for the overall radiation safety at this facility is D A Shreve. The act of physically conducting all wipe tests will also be carried out by D A Shreve.

Radiation wipe tests and surveys will be conducted on a monthly basis in Rooms 261 and Room 270 where all isotope tagging will take place. The results of the tests will be reviewed by D A Shreve and, if necessary, implement decontamination.

5. Item 7.3 of our April 22, 1985 Application; Radiation Safety Committee.

The following individuals will comprise the Radiation Safety Committee:

J L Holtshouser	Chairman; Manager Corp Industrial Hygiene
J R Sasic	Management Representative, Research
D A Shreve	Genetic Engineer/RPO
E S Puhala	Alternate Corporate RPO

6. Item 8 of our April 22, 1985 Application; Training for individuals working in restricted area.

The individuals who will be working with these by-product materials are L A Sikora, D A Shreve and D Tung. A training and experience resume is enclosed for each.

All new workers in this area will be put through an orientation program as described in Paragraph 19.2 of CFR Part 19. This orientation program will be given prior to the employee beginning a six month supervised activity. However, if the employee has previous experience or expertise in radiation tagging procedures, the six months of supervised activity will be waived.

7. Item 9 of our April 22, 1985 Application; Facilities and Equipment.

This section will now include the addition of Room 270 as a laboratory where the by-product materials will be used and stored. There will now be two rooms where the activity will take place. Room 261, currently licensed, and now Room 270, which we are adding. A sketch of Room 270 is enclosed. This room will also have a constant exhaust system functioning at all times.

Both rooms are standard chemistry laboratories with certain modifications. Activities normally used for tagging operations are in the 10 microcurie range with the exception of P-32 which may involve activities up to 5 millicuries. Absorbent paper, backed with polyethylene sheet, covers the working surfaces. Radiation monitors, tongs, lead bricks and lead glass shields are available. Dirty glassware is decontaminated in a designated hot sink in each laboratory. Dirty glassware is decontaminated using Isoclean Solution.

Supplies of radioisotopes are stored in a designated refrigerator in each room and the rooms are kept locked during non-working hours. The customary radiation symbol is also displayed on the door to each room.

8. Item 10.1 of our April 22, 1985 Application; Radiation Detection Instruments.

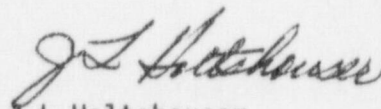
The Nuclear Chicago 8703 unit, discussed in Paragraph A.1, has been replaced with a Beckman Liquid Scintillation System Model 1801 that is used for leak test counting and following labelled chemical reactions.

9. Item 11 of our April 22, 1985 Application; Radioactive Waste.

There was an error in this original that went undetected that we would like to correct at this time. The last entry under the limits of disposable water soluble compounds was listed as P-35. It should be S-35.

10. In our May 14, 1986 letter, we set up our procedure for ordering radioactive material in entry 8.b. This procedure will now change and the ordering, logging and disposal of C-14, H-3, I-125, P-32 and S-35 will be handled or authorized by the Radiation Protection Officer, D A Shreve.

Enclosed is a check for \$120.00 to cover the cost of this amendment. If you have any additional questions, please contact me at (216) 795-4531.



J L Holtshouser
Corporate Radiation Protection Officer
The Goodyear Tire & Rubber Company
1144 East Market Street
Akron, Ohio 44316-0001

e7p12a16/pb

Attachments

Biographical Sketch for D S Shreve

Education

1973 B. S. - Biology - University of Cincinnati
1978 Ph. D. - Biology - Syracuse University

Work Experience

1983 - Present Senior Research Biologist, Biotechnology
Department, The Goodyear Tire and Rubber
Company, Akron, Ohio

I use millicurie amounts of H3 and C14 in
biochemical studies under the supervision
of Dr. J. H. Lui. I assist Dr. P. J.
Reilly, Radiation Protection Officer for
Goodyear's Research Building, in Geiger
counter calibration, maintenance of
radioisotope inventory, radioisotope
disposal and wipe tests of laboratories
and Ni63 containing gas chromatograph
detectors.

1980 - 1983 Postdoctoral Fellow, Biochemistry
Department, Case Western Reserve
University, Cleveland, Ohio

1978 - 1980 Postdoctoral Fellow, Biochemistry
Department, The Pennsylvania State
University, University Park, Pennsylvania

Training

1987 Five day course - "Occupational and
Environmental Radiation Protection" -
Harvard School of Public Health

1978 One day course on the use of radioactive
compounds in biochemical research -
The Pennsylvania State University

Experience with Radioactive Materials

Isotope	Amount
H3	1 mCi
C14	1 mCi
Ni63	3 sealed sources, 15 mCi each
	1 sealed source, 8 mCi



HARVARD SCHOOL OF PUBLIC HEALTH
BOSTON, MASSACHUSETTS

THIS CONFIRMS THAT

DAVID SHREVE

participated in the short course entitled

OCCUPATIONAL & ENVIRONMENTAL RADIATION
PROTECTION

conducted by

*the Department of Environmental Science and Physiology
the Office of Continuing Education*

August 10, 1987

to

August 14, 1987

Janet Shapiro
Course Co-Director

Dade W. Moeller
Course Co-Director and
Associate Dean for Continuing Education

BIOGRAPHICAL SKETCH FOR L A SIKORA

Education

- 1982 Ph.D. Biochemistry; Department of Biochemistry, Ohio State University.
- 1976 M.S. Biology; Department of Biology, University of Dayton.
- 1974 B.S. Biology; Department of Biology, St John Fisher College.

Work Experience

- 1984 Senior Research Biologist, Genetic Engineering Department, Goodyear Tire & Rubber Company.
- 1983 Senior Research Biochemist, Exploration and Production, Standard Oil (Ohio).
- 1982 Post Doctoral Research Associate, Department of Plant Pathology, International Plant Research Institute, San Carlos, California.

Training

- 1977 5 credit course; General Biological Chemistry Laboratory Techniques; Course dealt with the use and handling of radioactive compounds commonly used in the biochemistry laboratory.
- 1975 4 credit course; Radiation Biology; Course involved radioisotope theory, the effects of ionizing radiation and methods for handling and utilizing radioactive materials in biological experimentation.
- 2 credit course; Biological Instrumentation; A portion of this course involved the theory and quantitation of radioactive compounds utilizing gamma counting and liquid scintillation spectrophotometry.

BIOGRAPHICAL SKETCH FOR L A SIKORA (continued)

Page 2

License

1982	Permitted to utilize millicurie amounts of ^{32}P for biological research at the International Plant Research Institute, California.
1976	Permitted to use millicurie amounts of ^{32}P and ^3H and microcurie amounts of ^{14}C and ^{35}S at Ohio State University.
1975	Allowed to use millicurie amounts of ^{14}C at University of Dayton, Dayton, OH.

Radiation Experience

Beta Emitters

P-32	C-14
H-3	S-35

Gamma Emitters

I-125
Cs-137
Co-60
Ni-63

Biographical Sketch for D A TUNG

Education

1967 B. S. - Biology - Michigan State University
1969 M. S. - Biology - Kent State University

Work Experience

11/81- Present Staff Research Biologist, Biotechnology
 Department, The Goodyear Tire and Rubber
 Company, Akron, Ohio

 Currently, I use millicurie amounts of C14 in
 biochemical studies under the supervision
 of Dr. J. H. Lui. Future research could include
 the use of other isotopes.

12/69- 3/77 Staff Research Chemist, Polyester
 Division, Goodyear Research,
 Goodyear Tire & Rubber Co.

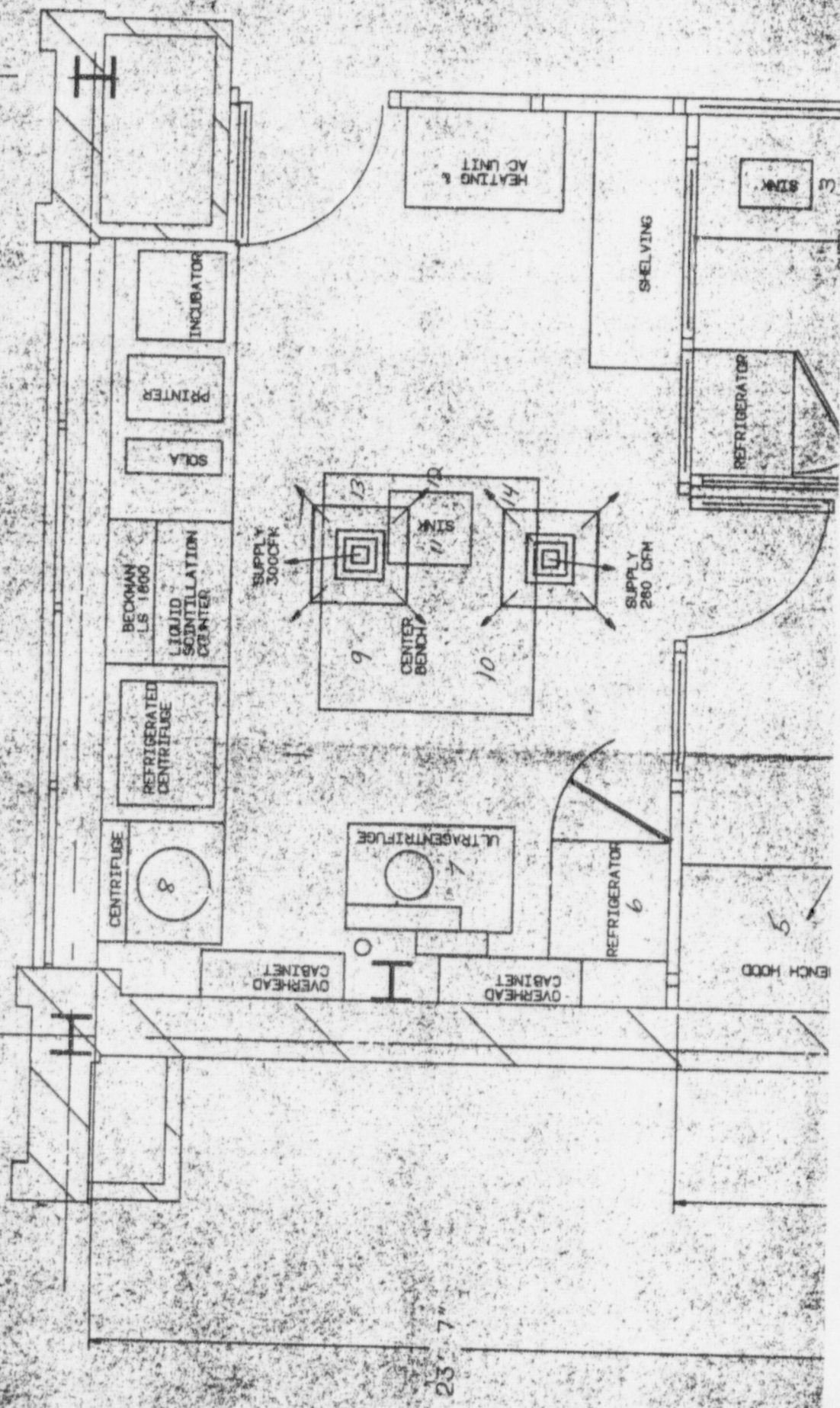
8/67 - 8/68 Research tech., Plant Research
 Laboratory, Atomic Energy Commission,
 Michigan State University

Experience with Radioactive Materials

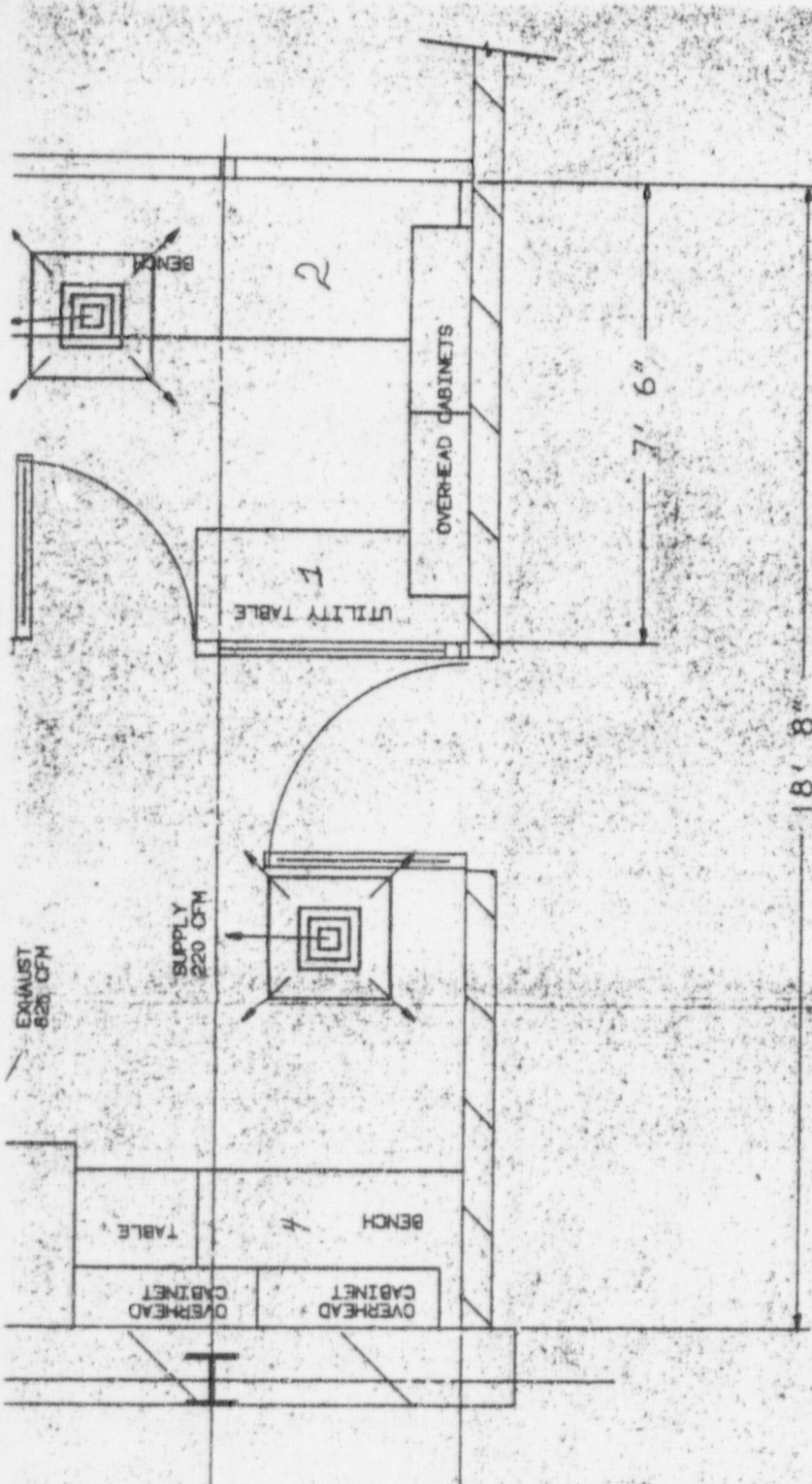
Isotope	Amount
C14	1 mCi

CONTROL NO 84709

R-2107-129



23' 7"



LAB 270

PIPE TEST LOCATIONS

- 1 Utility bench side room
- 2 Table top side room
- 3 Table top side room
- 4 Bench first room
- 5 Hood
- 6 Refrigerator freezer
- 7 Ultracent
- 8 Cent
- 9 Main bench
- 10 Main bench
- 11 Hot sink
- 12 Sink front
- 13 Sink sides
- 14 Sink sides

THE GOODYEAR TIRE & RUBBER COMPANY AKRON, OHIO

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DATE 5/13/87

LAB 270 LAYOUT

10V-126A

GPB 11/22/81

ITEM	NAME	MATERIAL	REMARKS	QTY
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