

GRACE

Research Division

W. R. Grace & Co.
25 Hartwell Avenue
Lexington, Massachusetts 02173

(617) 861-9600

May 5, 1986

RECEIVED
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U.S. NUCLEAR REGULATORY COMMISSION
LIC. FEE MGMT. BRANCH

Director
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Gentlemen:

This is a request for renewal of License No. 20-13794-01. In accordance with 10 CFR 170.31, the specified fee of \$150.00 is enclosed. While our current radiation program is unchanged as described in the above-mentioned license issued June 16, 1981, we anticipate some changes and we would like to address them in our renewal.

Amicon Corporation was acquired as a division of the W. R. Grace & Co. in March 1983. Beginning in January 1986, the group working at 25 Hartwell Avenue, Lexington, Massachusetts, became the Research Division, W. R. Grace & Co. The facility, personnel, equipment, radiation safety procedures, and radiation program remained essentially the same. An amendment, therefore, is requested for Item 1, changing the Licensee's name from Amicon Corporation to Research Division, W. R. Grace & Co.

It is also appropriate that we change the designated Radiation Safety Officer (RSO) to Mr. Richard Duffy. My duties have expanded to cover the non-radiation safety concerns of several buildings; so for the last several months, Mr. Duffy has been working with me, performing the necessary duties of an RSO. Mr. Duffy is well qualified to assume the office of the designated RSO with over ten year's experience working with radioisotopes. His last six years have been with Amicon Corporation at 25 Hartwell Avenue, Lexington, Massachusetts. His academic qualifications include a B.A. in Biology from Assumption College, Worcester, Massachusetts, and several graduate courses from Northeastern University, Boston, Massachusetts. His familiarity with and maintenance of the Amicon radiation safety procedures make him an excellent candidate for this office. He has been given instructions by myself in all the responsibilities and duties required by an RSO as stipulated in the United States Regulatory Rules and Regulations, Title 10, Chapter 1, Parts 19, 20, and 30, including:

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RECEIVED-REGION 1

B707010063 B70205
REG1 LIC30
20-13794-01 PDR

ML18 105582

License Fee Information
on Application

MAY 28 1986

- a. fume hood stack and breathing zone monitoring, including MPC calculations for ^{125}I
- b. thyroid scans at the nanocurie level
- c. waste disposal procedures
- d. proper recording procedures
- e. routine laboratory and personnel monitoring
- f. instrument calibration and use

We are anticipating the future need for two additional isotopes, Phosphorus 32 and Sulphur 35. Personnel have received training in the proper use of these isotopes at the Massachusetts Institute of Technology; therefore, we would like Items 6, 7, and 8 amended to read:

6 By-product, source, and/or special nuclear material	7 Chemical and/or physical form	8 Maximum amount that the licensee may possess at any one time under this license
A Iodine 131	A Any	A 15 millicuries
B Iodine 125	B Any	B 20 millicuries
C Carbon 14	C Any	C 20 millicuries
D Hydrogen 3	D Any	D 200 millicuries
E Phosphorus 32	E Any	E 20 millicuries
F Sulphur 35	F Any	F 20 millicuries

In conjunction with the above, we would like Item 9. Authorized Use amended to read:

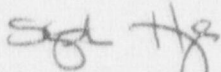
A. through F. Radioimmunoassay procedures, study of the passage of molecules through synthetic membranes and the study of binding and elution of molecules to synthetic materials.

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Finally, due to additional personnel, we would like Condition 12 amended to include Denise Perron, Santosh Raina, and Julie Rudolph. Resumes are included on each individual detailing their ability and experience with radioisotopes.

Sincerely,

W. R. GRACE & CO.



Stephen Hynes
Radiation Safety Officer
Research Division

SH:pso
Enclosures

cc: Richard L. Duffy