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Sigma Chemical Company
ATTN: Walter C. Stern
Vice President
3050 Spruce Street
St. Louis, MO 63103

JUL 24 '85

Gentlemen:

This is in reference to your application dated June 5, 1985 for an NRC License to store and distribute organic products containing byproduct material. Additional information is needed in support of your application. Please respond to the following:

1. It is our understanding that you wish to distribute prepackaged, organic compounds containing hydrogen-3 and carbon-14 prepared by Pathfinder Laboratories to persons authorized to receive the material pursuant to the terms of a specific license issued by the NRC or an Agreement State. The prepackaged units will not be opened, nor will the package labeling or accompanying leaflets and brochures be altered or removed. Please confirm if our understanding of your intentions is correct. Otherwise, please clarify. (We are concerned about a statement in your Radiation Safety Program declaring that "packages containing radioactive materials will not be opened except by the RSO..." and about references to packing overpacked items into a 7A shipping container.)
2. If you will have available for use a GM survey meter, please confirm that the instrument will be equipped with a thin end window probe suitable for detection of low levels of carbon-14.
3. Persons in your receiving area should be instructed on procedures to follow in the event that packages containing the radiolabeled compounds appear to be damaged. Please confirm that instructions will be provided and a copy of the instructions will be posted in the receiving area.
4. Describe the method you will use to verify that customers are authorized by the NRC or an Agreement State to receive the licensed material in the quantity and form you will supply.
5. Please clarify whether the labeled compound will be delivered to your customers by employees or by common carrier. If employees will deliver the kits, outline the instruction they will receive concerning procedures to be followed in case of vehicle accidents or other emergencies. Also, describe how the material will be secured from unauthorized removal during transport.

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6. Describe the method you will use for disposing of labeled compounds that are no longer required.

We will continue the review of your application upon receipt of this information. Please reply in duplicate within 30 days and reference Control No. 79137.

Please be advised that bioassay is not normally required of licensees who only redistribute prepackaged quantities of licensed materials. If you make this commitment in your license application, however, you will be expected to abide by it.

Sincerely,

Original Signed By
B.J. Holt
Materials Licensing Section

RIII

Holt/cm
07/17/85

12/23/85