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# Mobil Research and Development Corporation

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June 13, 1975

Nuclear Regulatory Commission  
Materials Branch  
Division of Material and  
Fuel Cycle Facility Licensing  
Washington, D.C. 20555

re: Control #55624

Attention: Mr. J. Brown

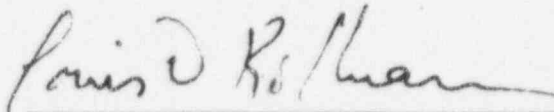
Dear Mr. Brown:

In reference to Control #55624 and as you requested in our telephone conversation of June 4, I attach a copy of my Radiological Safety Procedures which details laboratory practices for the handling of  $C^{14}$  and tritium in sub-millicurie quantities. We do not expect to require larger amounts of radioactive materials for any given experiment. Due to tritium availability problems, however, a larger initial purchase may be required. I would be the only person authorized to handle quantities over 1 millicurie.

We further amend our Application for By-Product Material License, Item 11, to read, "Calibrated every time used or at least one a year," as you suggested.

I hope these amendments and additions will be satisfactory.

Very truly yours,



Louis Deane Rollmann

mka  
cc Lester Levin

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Radiological Safety Procedures

The practices below have been compiled for and are to be observed by any person working with  $C^{14}$  or tritium-containing samples of up to one millicurie. Specified are (1) a log book, (2) monitoring procedures for contamination, and (3) safe laboratory techniques.

- (1) A log book is to be maintained which will contain a record of purchases and disposal of labelled samples, the results of monitoring tests for contamination, and a description of any accidents which might occur.
- (2) Work surfaces actively used in these experiments are to be monitored for contamination once a week or after any spillage. Said monitoring will be conducted by wiping a 3 inch square section in the middle of the work surface with a one inch square towel, placing the towel in a scintillating solution and counting. If a counting level greater than that observed at the outset of the experiments is found, the work area will be washed until the contamination is removed, as indicated by a repeated wipe test.
- (3) Special precautions are to be observed with these samples to prevent inhalation or drinking. Thus, no smoking, no food, no beverages are allowed near the designated work areas. Pipetting is to be done with suction bulbs, not by mouth; sample preparation is to be done in the designated hoods. Waste materials are kept in metal containers in a hood until picked up for disposal. All containers for radioactive material are prominently labelled.