

Mobil Research and Development Corporation

September 21, 1981

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Subject: Mail Control No. 04426

Gentlemen:

I am addressing this response to the communications from Mr. John W. N. Hickey to you as per instructions from Ms. Vandy L. Miller. The following information is provided in support of our renewal application:

1. Instrument Calibration Procedures use standard sources provided by the manufacturer. Liquids of specified C-14 content were obtained from New England Nuclear for independent verification of the accuracy of the scintillation counter. Calibration is done each time the instruments are used.
2. Bioassay procedure for hydrogen-3: Urine samples of any person handling or exposed to millicurie quantities of tritium in any form are taken 2-3 hours after such exposure. The sample is added to a 10-fold excess of scintillation cocktail, counted and recorded. Comparison is made to a count level before exposure. No operations are permitted which involve even 10% of the tritium amounts specified in "Guidelines for Bioassay Requirements for Tritium," October 19, 1977.
3. Our Radiation Survey Program is described in the attached Instructions to Personnel and Radiation Manual (Log Book).

I hope this additional information will be satisfactory.

Sincerely yours,

T.O. Mitchell

T. O. Mitchell
Administrative Coordinator

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