

ARCHER DANIELS MIDLAND COMPANY BOX 1470 DECATUR, ILLINOIS 62525 TEL: 217/424-5200

December 2, 1986

Ms. Patricia J. Whiston
Materials Licensing Section
Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

SUBJECT: Reply to request for additional information for
renewal of License Number 12-13853-01 (dated December
18, 1986). Control Number 80397..

Dear Ms. Whiston:

Below is the information you requested. I apologize for our
delay.

1. a. The maximum quantity of 32p used per experiment is 75 microCuries. We do not currently use milliCurie amounts nor do we intend to. Our current safety program covers the microCurie levels we do use.
 - b. 1) We have the scandium tritide foiled electron capture detector.
 - 2) We are no longer using the electron capture detector. It is being stored under refrigeration.
2. The named users, Linda Hansen, Judith Cash and Robert Brooks have handled up to 75 microCuries of 32p at one time. All dosimeter reports for this period have shown no measurable exposure. The material was used in an in vitro diagnostic assay (GENE-TRAK Salmonella Assay, Integrated Genetics, Inc., Framingham, MA). The named users have not handled other radioisotopes in the past.
3. b. The GENE-TRAK Beta Detector, used to measure results of the assay, is model CTC-4, manufactured by Radiation Monitoring Devices, Inc., Watertown, MA. Performance of the detector will be routinely checked in accordance with the Integrated Genetics quality control procedure (Integrated Genetics, Inc., 31 New York Avenue, Framingham, MA, 01701).

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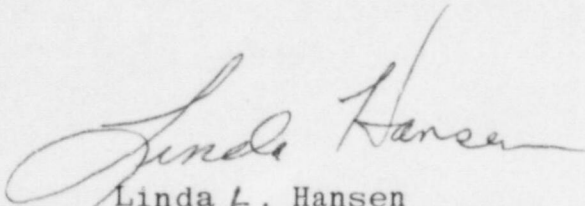
The survey meter (GM tube) used for contamination survey work is Ludlum Model 3. The instrument will be calibrated annually by

Stan A. Huber Consultants, Inc.
235 Essex Lane
New Lenox, IL 60451
Lic. No. 12-17503-01
IDNS IL-00317-01

4. Radioactive material with a physical half life of less than 65 days will be held for decay a minimum of 10 half lives, and prior to disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background.

Liquid radioactive waste will be discharged into the sanitary sewerage in accordance with 20.303 of 10 CFR Part 20.

5. I confirm we will maintain file records of the results of all area surveys performed.
6. I have the authority to make commitments of this type on the behalf of Archer Daniels Midland Co.



Linda L. Hansen
Quality Assurance Manager
Archer Daniels Midland Co.
Decatur, IL 62526
(217) 424-5610

cc: William J. Adam