

SEPC Galveston Laboratory  
4700 Avenue U  
Galveston, Texas 77550

March 21, 1983

Contract #12957

Dr. Frank C. Davis  
Material Licensing Branch  
Division of Fuel Cycle and Safety  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Dr. Davis:

Enclosed is additional information as per your request of February 25, 1983. We hope that this is sufficient support for the renewal of our license (No. 42-17616-01).

If I can be of further assistance, please contact me.

Sincerely yours,

Marcel J. Duronslet  
Radiation Safety Officer

Enclosure

8903270234 890313  
REG4 LIC30 PNU  
42-17616-01

### Radiation Safety Instructions

1. All labeled material will be confined to the two rooms designated for working with radioisotopes. All containers will be precisely labeled as to the amount and type of isotope contained.
2. All equipment used in handling labeled material will be appropriately labeled and confined to this area.
3. Ordering, reception and disposition of all labeled materials will be conducted through the Radiation Safety Officer (R.S.O.). It will be his responsibility to maintain a current list of all isotopes (and amounts) on hand - their location and disposition.
4. No one will be allowed to work in the designated areas or with isotopes without written approval of the R.S.O.
5. No eating, smoking or drinking will be allowed in the designated areas.
6. Wearing of gloves and lab coats will be enforced by the R.S.O.
7. Working over bench-kote (or other absorbent material) will be done whenever possible.
8. Cleanup after every run (under the supervision of R.S.O.) will be the responsibility of the individual user.
9. Monitoring of the working area will be conducted monthly by the R.S.O.
10. Entrance to the isotope work area will be plainly marked as to the presence of nucleotides.
11. All waste materials will be deposited in the 55-gallon drum located inside the scintillation room. No materials will ever be washed into the sanitary sewer system.
12. Film badges will be provided to anyone working with isotopes in the scintillation facility.
13. In case of spills or other emergency, refer to instructions given under separate cover. In any event, notify the Radiation Safety Officer (see below).

Marcel Duronslet

Work telephone: (409)766-3516/(713)749-4631

Home: (713)339-1672

Procedures for the Reception of  
By-Product Material

1. All labeled material ordered will be directed to the attention of the Radiation Safety Officer (R.S.O.).
2. If delivered on-site, the material will be hand carried to the R.S.O.
3. If other than on-site delivery, package will be marked to notify the R.S.O. immediately upon arrival. It will be the responsibility of the R.S.O. to then pick up the by-product material.
4. Upon arrival at the site all packages and material containers will be visually examined for cracks, tears or other signs of possible breaks or leakage.
5. The external surfaces of packages and material containers will then be subjected to wipe tests to establish non-contamination. Wipe tests will be used at this site as only weak beta emitters will be used.
6. Package will be opened only after wipe tests show no contamination, and then in a manner so as not to break the labeled material container. The container itself will then be monitored for contamination.
7. If the above procedures all prove negative the appropriate user will be notified.
8. If the tests show breaks or contamination above the minimum specified in the 10 CFR 20 sect. 20.205, the appropriate carrier will be notified along with the Office of Inspection and Enforcement, U.S.N.R.C., Region IV, Arlington, Texas.



## Radiation Survey Program

Surveys of the isotope work area will be conducted monthly by the Radiation Safety Officer.

Wipe tests will be made of floors, counter tops, instruments, and appropriate control areas. Test papers will then be counted with a liquid scintillation counter (Beckman L.S.250). Any counts significantly above background (control) or in excess of those listed for Beta emitters in Table 2 of Regulatory Guide 8.21 will be cause to initiate decontamination procedures for that area.

Emergency Procedures Involving  
By-Product Material

General

1. The Radiation Safety Officer will be notified in the event of any accident, spill, fire, etc.
2. Signs will be posted in all working areas listing:
  - a. Procedures to be followed in case of an accident.
  - b. Name, office location, office extension, and home phone of Radiation Safety Officer.
  - c. Location and phone number of appropriate Inspection and Enforcement Office, U.S.N.R.C.

Spills

I. Immediate action:

1. Close/lock spill area off from all personnel.
2. Notify Radiation Safety Officer (see location and phone numbers below).

II. Remedial action:

Under direction of the Radiation Safety Officer:

1. Spills will be cleaned up in a manner depending on the nature (liquid, solid) of the material spilled. Organic material will be picked up with organic solvents. Water soluble materials with water.
2. All materials used in the the cleanup will be placed in the appropriate marked receptacle.
3. After a cleanup the area will be monitored by the Radiation Safety Officer to determine if contamination remains in the area.
4. If all cleanup procedures fail, the Office of Inspection and Enforcement, Region IV, U.S.N.R.C., will be notified.

## Fire/Explosion

### I. Immediate action:

1. All fires will be extinguished with standard fire-fighting equipment.
2. If minor disruption of isotope work area occurs, notify Radiation Safety Officer (see below).
3. If major disruption occurs - cut off all gas and electrical circuits. The entire area will be roped and sealed off, and notify the Radiation Safety Officer and the Office of Inspection and Enforcement, Region IV, U.S.N.R.C.

### II. Remedial action:

1. If minor accident, the Radiation Safety Officer will supervise the cleanup of the area. Once completed, he will survey the area to determine if unacceptable contamination remains.
2. If major accident, cleanup will be accomplished in collaboration with the Office of Inspection and Enforcement, Region IV, U.S.N.R.C.

#### Radiation Safety Officer:

Marcel Duronslet  
Work: (409)766-3516; (713)749-4631  
Home: (713)339-1672

#### If unavailable, contact:

Terry Johnstone  
Work: (409)766-3500  
Home: (409)938-0443

OR

Dr. Edward F. Klima  
Work: (409)766-3500  
Home: (409)762-3928



### Waste Disposal Program

1. A 55-gallon drum, properly labeled and lined is maintained in the isotope work area at all times.
2. All contaminated materials will be placed in this drum. Solids, paper towels, vials, etc., can be placed directly in the drum. Liquids will be placed in the drum after first being absorbed with an appropriate absorbent material.
3. Under no circumstances will any liquid material be washed into the sanitary sewage system.
4. When the drum is deemed "full" by the Radiation Safety Officer, it will be sealed and labeled according to N.R.C., D.O.T. regulations and an appropriate Waste Disposal Licensee contacted. They will remove the sealed drum and a new one will be installed.