

*Bio-Clinical Group Inc.*

*767 B Concord Avenue*

*Cambridge, Massachusetts 02138*

*Telephone 617-497-2070*

January 15, 1982

U.S.N.R.C.  
Region I  
Material Licensing Section  
631 Park Avenue  
King of Prussia, PA 19406

Attention: P. Jerman

Re: Control No. 00358

Dear Mr. Jerman:

In response to your letter of January 12, 1982, we would like to provide the following additional information which was discussed this date with John Glenn of your office.

It appears that you may be missing page 2 of the Form 313, which is enclosed.

1. Individuals who iodinate protein will wear finger film badges or TLD's to monitor exposure to the hands as well as film badges to monitor exposure to the whole body.

These services will be provided by R.S. Landauer as specified in Item 12 of our application for both body and finger badges.

2. The name of the commercial waste disposal firm is Interex Corporation. This is shown in Item 14 of the application.
3. Receipt of packages of radioactive material will be made in accordance with 10CFR Part 20.205 and is described in Item 15 of the application.

Additional surveys of the lead pig and packaging materials for both contamination and radiation leaks will be made and documented when the package is opened.

4. Air sampling will be performed continuously during iodination operations as specified in our procedure "Air Monitoring for Radioiodine" on page 34 of Item 15.

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5. We do not now have, nor do we have for the future, any plans to conduct animal studies using radioactive material or to maintain animal facilities. This item in the procedure was added inadvertently.

I trust that this information will be satisfactory. If you require any additional information, please do not hesitate to contact me. Your prompt attention to this matter is greatly appreciated.

Very truly yours,



Ernest V. Groman  
Senior Scientist/Health Physicist

EVG/amc

Enclosure

## 9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	NA	NA	NA
(2)			
(3)			
(4)			

## 10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	Survey meter	Ludlum	177	1	Gamma	100-1,000,000 CPM
(2)	Geiger counter	Eberline	E-120	1	Gamma	0.1--50mr/hr
(3)	Automatic Gamma counter	Micrometetics	4/200	1	Gamma	100-100,000 CPM
(4)						

## 11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☒ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY See attachment

Ludlum Model 177

Eberline E-120

☒ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards used for calibrating instruments. See attachment

Micrometic 4/200

## 12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input checked="" type="checkbox"/> (1) FILM BADGE <input checked="" type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____	R.S. Landauer 3 New England Executive Park Suite 218 Burlington, MA 01803	<input type="checkbox"/> MONTHLY <input checked="" type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): _____ _____ _____

## 13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

☒ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.☐ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

## 14. WASTE DISPOSAL

## a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

Interex Corporation

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.