

# BioClinical Group Inc.

767 B CONCORD AVENUE • CAMBRIDGE, MASSACHUSETTS 02138

TELEPHONE (617) 497-2070

May 13, 1982

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

Attention: Paul R. Guinn

Re: Control No. 10137

Dear Mr. Guinn:

In reference to your letter of May 7, 1982, and as we discussed on the telephone yesterday, I am pleased to provide you with the following information:

1. Radiation survey instruments used for quantitative measurements will be calibrated at intervals not exceeding 6 months. A two point calibration will be made on each scale with each point separated by at least 50 percent of the scale.

Calibration will be done by Jasins and Sayles, Inc., NRC License No. 20-16852-01, exp. 8/31/86. A copy of Jasins and Sayles' calibration procedures is on file with the NRC.

2. Laboratory hoods will be inspected daily for proper face velocity using a properly calibrated velometer. The minimum average face velocity with the sash in an operating position will be 100 ft/min as determined from at least five different measuring points. Hood filters will be inspected and/or replaced if the average face velocity drops to less than 100 ft/min.
3. In keeping with the ALARA concept, BioClinical Group is committed to a goal of keeping personnel exposures to within 10 percent and effluent releases to within 10 percent of the limits specified in 10CFR Part 20. Investigations of exposures and effluent releases above these levels will be conducted, and causes and corrective measures documented.

These procedures are attached and will be added to the BioClinical Group Radiation Safety Manual.

I wish to thank you for your assistance in the completion of this application.

Very truly yours,

*Mark C. Roessel*  
Mark C. Roessel

Director of Regulatory Affairs

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## HEALTH PHYSICS PROCEDURE

SURVEY METER CALIBRATION

Date Effective: 05/13/82

PURPOSE AND SCOPE

All survey instruments used for quantitative measurements will be calibrated at least every six months.

PROCEDURE

Survey instruments used for quantitative measurements will be calibrated by Jasins and Sayles, Inc., NRC License No. 20-16852-01. A two point calibration will be made on each scale with each point separated by at least 50 percent of the scale.

All survey meters used for quantitative measurements will bear a calibration sticker noting the date calibrated, the name of the calibrator, and the due date of the next calibration.

## HEALTH PHYSICS PROCEDURE

### LABORATORY FUME HOODS

Date Effective: 12/15/81

#### PURPOSE

To provide a procedure to check that all fume hoods are operating properly to assure personnel safety.

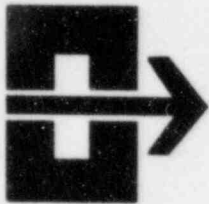
#### SCOPE

This procedure describes methods, frequency, limits and documentation for the operation of laboratory fume hoods. Biogard hoods and laminar flow cabinets are not included in this procedure.

#### PROCEDURE

1. Measurements of hood flow rates are to be made daily before use. Records of flow rates will be kept monthly.
2. With the hood running, the sash open, six measurements of the air flow are made with a velometer and recorded (see attached form). Readings at each measurement are recorded on the form and averaged to determine the hood flow rate.
3. The limit for the minimum average hood velocity minimum is 100 feet per minute.
4. Documentation: Hood air flow records will be completed noting the hood number, location, date and name of the inspector. Records will be maintained of hood performance, maintenance and repair.
5. Hoods Which are Out of Specification: Any hood which does not meet the requirement of Section 3 will be tagged "out of service" and closed from use. The user of the hood will be immediately notified and instructed to transfer the contents of the hood to another, properly operating hood. The Safety Coordinator will be notified of any hood which is below specification. The Health Physicist will be immediately notified of any radiation lab hood which is below specification.

Hood filters will be inspected and/or replaced if the average face velocity drops to less than 100 ft/min.



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## ALARA PROGRAM

It is the policy of BioClinical Group, Inc., to maintain occupational radiation exposures and release of radioactive effluents to levels as low as reasonably achievable. All employees have the responsibility to conduct themselves in a manner consistent with this philosophy.

## ALARA PROGRAM, ACTION LIMITS

In keeping with the ALARA concept, occupational radiation exposures and effluent releases will be maintained at levels as low as reasonably achievable. Investigations of exposures and releases above the following levels will be conducted, and causes as well as interim and permanent corrective measures will be documented.

### Action Levels

#### 1. Personnel Exposures

Any exposure in excess of 10% of the levels specified in 10CFR Part 20 and Appendix A of BioClinical Group's Radiation Safety Manual

#### 2. Effluent Releases

Any release in excess of 10% of the levels specified in 10CFR Part 20 and Appendix B of BioClinical Group's Radiation Safety Manual

Mark C. Roessel  
Director of Regulatory Affairs

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