

RECEIVED BY LFMB

Date: 5/25/85

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By: Brown

Orig. To:

Action: 5/28/85

BBL Microbiology Systems
 Post Office Box 243
 Cockeysville, Maryland 21030
 Telephone: (301) 666-0100
 TWX: 710-862-2636
 Telex: 8-7823

**BECTON
 DICKINSON**

May 10, 1985

Applicant: Becton Dickinson

Check No.: 73885

Amount: \$120/38

Type of Fee: Amendment

Date Check: 5/23/85

Received By: Brown

MAY 2 11 40
 M.C. CRANCH

U.S. Nuclear Regulatory Commission
 Region II
 Materials Licensing Department
 101 Marietta Street, Suite 2900
 Atlanta, GA 30323

Subject: Marco-Vue, Inc., Vicks Drive, Cayey, Puerto Rico;
 Material License 52-21502-01

Gentlemen:

Enclosed is a copy of a resume for the radioactive experience for Mr. Mario Vega. Our current Radiation Safety Officer, Rafael O'Ferral, will be relinquishing this position to advance within our Company. Mario Vega has been working with Mr. O'Ferral since the startup of this operation and will be taking over as Radiation Safety Officer. In addition to this information contained on the resume, I personally have been conducting the training for Mr. O'Ferral. My resume for radioactive experience is currently on file with our original license application. I currently serve as Division Safety Engineer for the BBL Microbiology Systems Division which includes Johnston Laboratories, and I am currently the Radiation Safety Officer at the Johnston Laboratories facility in Towson, Maryland as well as several other facilities within the Division.

Mr. Vega's training has been mostly hands-on-training regarding the policies and procedures that we have set up per our license application, and we have been training him to fill the position of on-site backup Radiation Safety Officer under the supervision of Mr. O'Ferral and myself. He has been spending a minimum of two hours a day in the area of radiation safety which has included surveying for radioactive contamination both in the facility as well as personal monitoring of individual uniforms and personnel. He has been responsible for incoming shipments as well as maintaining the stockroom for the "on-hand" supply of radioactive substrates utilized in the manufacturing of our product. Although the initial training of personnel who work in the Bactec area was conducted by myself as well as the startup, Mr. Vega worked with me so that this portion of the program could be implemented under both his supervision and Mr. O'Ferral's in order to maintain it. Mr. O'Ferral has been directly supervising all aspects of his radiation training while on-site with my visits taking place at least twice a month.

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Despite the changes noted above, I will still continue with my regular visits in order to assure that we are in full compliance with the regulations of those items listed on our current license.

Enclosed is the \$120.00 amendment fee as required in Sections 170.31 (3B) of 10-CFR-170. I hope that this information is complete, if you have any additional questions please feel free to contact me c/o of the telephone number or address listed above. It is our anticipation to make the change for Radiation Safety Officer effective the end of May 1985. Thank you in advance for your usual cooperation.

Regards,

Bruce W. Stainbrook

Bruce W. Stainbrook
Division Safety Engineer
BBL Microbiology Systems

BWS/wpc/dc
DC-S#5/A23-24

cc: G. Lashley, Macro-Vue
B. Borghese, Macro-Vue
J. Dorr, Macro-Vue
M. Vega, Macro-Vue
J. Meini, BBL

RESUME OF RADIATION EXPERIENCE FOR MARIO VEGA

EXPERIENCE:

Macro Vue, Incorporated:

Served as Assistant to the Radiation Safety Officer from startup in June 1984 to the present. Responsible for the Quality Control Department for the Bactec operation in conjunction with the Radiation Safety Office responsibilities which include the inspection of incoming shipments of radioactive material, survey of the facility, handling of the radioactive waste, and maintenance of the "on-hand" supply of radioactive material. During the last year has worked under the direct supervision of the Radiation Safety Officer with the intent of assuming that position. I worked under the supervision of the Division Safety Engineer to learn all aspects of Radiation Safety as they pertain to the manufacturing of Bactec media. Supervises the 6 employees in the Quality Control Department and handles the training of new employees who would begin working in the production area.

Other areas of responsibility that training and implementation of programs has been completed in is as follows:

- Airborne monitoring of radioactive material including 8-hour sample collection for employees in restricted and unrestricted areas.
- Trained in handling radioactive waste in both dry and liquid waste to be sent off site through contracted firm for reclamation and disposal of approved radioactive material into the sanitary sewer and monitoring of quantity and dilution levels.
- Survey for radioactive contamination on uniforms.
- Survey for radioactive contamination of the Bactec facility as well as the unrestricted areas outside of the facility.
- Handling of emergency spills and contamination of areas where a spill could occur.
- Complete urine analysis on employees in the Bactec manufacturing area to determine the body burden and assure compliance with both our Corporation and USNRC regulations.

Johnston Laboratories Towson Maryland:

Spent approximately 6 months in training and manufacturing experience at the Johnston Laboratories manufacturing facility for Bactec media. During this time period, hands-on manufacturing skills including the actual mixing of the media and handling of the radioactive substrates and their addition into the media in order to make Bactec media. QC testing of the finished product included measurements in utilizing liquid scintillation counting. Supervised and trained in the cleanup of spills and disposal procedures for waste shipments. Supervised employees in the Q.C. Department for the development of protective equipment and contamination cleanup programs consistent with our policies. Training took place from November 1983 to April 1984.

TRAINING COURSES:

Center for Disease Control Radiation Training Course (note attached program curriculum).

Attended in February 1984 the Radiation Safety In The Laboratory Program. The class time was 8 hours with an additional follow-up day with Dr. Wagner in radiation safety. The course included discussions of radiation physics, introduction to principles of radiation, interaction with matter including biological systems, radiation protection surveying and personal monitoring practices and an extra day was provided with Dr. Wagner for our Bactec personnel to specifically go over certain aspects of handling radioactive materials including decontamination of spills and actual hands-on application of surveying areas and monitoring for exposure.

(PLEASE POST ON BULLETIN BOARD)



THE CENTERS FOR DISEASE CONTROL ANNOUNCES A COURSE IN



RADIATION SAFETY IN THE LABORATORY (9007-C)

February 17, 1984 — Atlanta, Georgia

COURSE OBJECTIVES: To prepare participants to develop a monitoring program for their laboratory, and to learn how to decontaminate a spill.

COURSE PLAN: This course is composed of 70% lecture and 30% laboratory exercise. It includes a brief discussion of radiation physics, introduces the principles of radiation interaction with matter, particularly biological systems. Radiation protection, surveillance, and personnel monitoring practices are discussed. A laboratory radiation safety program is outlined.

CONTENT:

Laboratory Sessions Include: radiation spill cleaning and laboratory monitoring.

Lectures/Discussions Include: basic radiation physics; biologic effects of radiation; personnel protection; radiation detection; laboratory monitoring; contamination control; waste disposal; the radiation safety program.

ELIGIBILITY: Applicants should be responsible for radiation safety or be working with radioactive materials. A basic knowledge of radiation physics is desirable.

WHO SHOULD ATTEND:

Laboratory supervisors will gain the technical skills and knowledge to supervise this specialty more efficiently.

Laboratory trainers will be able to train students and co-workers in the subject.

Laboratory bench personnel will be able to perform the procedures more accurately, troubleshoot problems, detect laboratory errors, and communicate test results more effectively to clinicians.

DATE: February 17, 1984. (Classes 8:00 a.m. to 4:30 p.m.)

DEADLINE FOR APPLICATION: December 19, 1983. Late applications may be considered.

LOCATION: Centers for Disease Control, 1600 Clifton Road, Atlanta, Georgia

CONTINUING EDUCATION UNITS: Upon successful completion of the course, 1 CEU will be awarded for every 10 contact hours.

TUITION: \$44.00

OTHER EXPENSES: All laboratory materials, manuals, and use of equipment are included in the tuition. Students are responsible for their own transportation, lodging, and meals.

COURSE DIRECTOR: Dr. William M. Wagner, Consultation and Educational Resources Branch

HOW TO APPLY: Complete a separate application for each course (the accompanying applications may be duplicated) and mail it to your State Public Health Laboratory Director, who will forward it to CDC. **DO NOT SEND TUITION MONEY WITH THE APPLICATION.** For further information contact:

Mrs. Gloria A. Kovach
Course Enrollment Assistant
Division of Laboratory Training and
Consultation
Laboratory Program Office
Centers for Disease Control
Atlanta, GA 30333