

OCT 19 1989

Docket No. 030-05337

License No. 29-07694-01

American Cyanamid Company  
ATTN: Steven D. Levy, Ph.D.  
Executive Director, Chemical Development  
P.O. Box 400  
Princeton, New Jersey 08540

Gentlemen:

Subject: Routine Inspection No. 030-05337/39-001

On August 22, 1989, Jack R. Metzger and John T. Jensen of this office conducted a routine safety inspection at your facility at Quakerbridge and Clarksville Roads, Princeton, New Jersey of activities authorized by the above listed NRC license. The inspection was an examination of your licensed activities as they relate to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspector, interviews with personnel, and a selective examination of representative records. In addition, our inspection examined the activities covered in your correspondence dated January 7, 1988. The findings of the inspection were discussed with you and Melvin C. Johnson, Ph.D., of your staff, at the conclusion of the inspection.

Based on the results of this inspection, it appears that your activities were not conducted in full compliance with NRC requirements. A Notice of Violation is enclosed as Appendix A and categorizes each violation by severity level in accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," 10 CFR Part 2, Appendix C (Enforcement Policy). You are required to respond to this letter and in preparing your response, you should follow the instructions in Appendix A.

The inspectors performed removable radioactive contamination surveys in Room C-118 where radiosyntheses using up to 600 millicuries of carbon-14 have been performed. The survey results indicated that 4,560 and 5,780 disintegrations per minute per 100 square centimeters of carbon-14 contamination were removed from the floor and from a magnetic stirrer, located on the floor, respectively. The results also indicated that 227 disintegrations per minute per 100 square centimeters of carbon-14 contamination were removed from the floor in the hallway adjacent to Room C-118. Although these levels of contamination do not represent a significant hazard to your employees, we do feel that you should develop and submit a decontamination plan for these areas. Based on our review of your license and information gathered during the inspection, we note that you have not set removable contamination levels above which you will require that the area be decontaminated. Be advised that you will be required to address such levels in correspondence concerning your application for renewal of NRC License No. 29-07694-01.

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The inspectors also took soil samples from a portion of the areas of your facility on which you have performed field studies using carbon-14 labelled pesticides. We understand that you removed contaminated soil from the area and that your soil sample analysis indicated that the soil in the area is free of contamination. We also understand that you wish to re-use the area for similar field studies in the future. We will analyze our samples for carbon-14 content and we will inform you of the results when the analysis is complete.

Item B in the Notice of Violation enclosed with this letter was identified during a previous inspection of your licensed activities and documented in a Notice of Violation enclosed with our letter dated January 7, 1988. From this inspection, it appears that your corrective actions were not effective since this item has recurred. Recurrent and uncorrected violations are given additional weight in the consideration and selection of appropriate enforcement action. Therefore, in your response to this letter, you should give particular attention to those actions taken or planned to ensure that identified items of noncompliance will be completely corrected and will not recur.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

The responses directed by this letter and the accompanying Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

Your cooperation with us is appreciated.

Sincerely,

**Original Signed By:**  
**John D. Kinneman**

John D. Kinneman, Chief  
Nuclear Materials Safety Section B  
Division of Radiation Safety  
and Safeguards

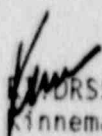
Enclosure:  
Appendix A, Notice of Violation

cc:  
Public Document Room (PDR)  
Nuclear Safety Information Center (NSIC)  
State of New Jersey  
Melvin C. Johnson, Ph.D., Radiation Safety Officer

bcc:  
Region I Docket Room (w/concurrences)  
Management Assistant, DRMA  
J. Jensen, RI

# RI:DRSS  
J. Jensen/bj

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 RI:DRSS  
Kinneman

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