

NOTICE OF VIOLATION

University of Maryland
College Park, MD
Maryland University Training Reactor

Docket: 50-166
License: R-70

During an NRC inspection conducted on October 6-8, 1992, three violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," 10 CFR Part 2, Appendix C (Enforcement Policy), the violations are listed below.

1. 10 CFR 20.201(b) requires that each licensee make such surveys as may be necessary to comply with the requirements of Part 20 and which are reasonable under the circumstances to evaluate the extent of radiation hazards that may be present. As defined in 10 CFR 20.201(a), "survey" means an evaluation of the radiation hazards incident to the production, use, release, disposal, or presence of radioactive materials or other sources of radiation under a specific set of conditions.

Contrary to the above, the licensee did not make adequate surveys to determine that individuals were not exposed to airborne concentrations exceeding the limits specified in 10 CFR 20.103 and to detect surface contamination. Specifically, monthly samples taken for these purposes from January 1991 to present were analyzed on equipment that was not calibrated quantitatively or qualitatively for the counting configuration of the samples or for the isotopes of concern, and no review of the results was accomplished to evaluate the actual presence or concentration of any radioactive materials.

This is a Severity Level IV violation. (Supplement IV)

2. Technical Specification 4.3 in part states that "gross gamma activity shall be determined monthly, at intervals not to exceed six weeks" and "Gross gamma activity measurements are conducted to detect fission product releases from damaged fuel element cladding."

Contrary to the above, the licensee did not make adequate surveys to determine the gross gamma activity in the pool water. Specifically, monthly pool water samples taken for these purposes from January 1991 to present were analyzed on equipment that was not calibrated quantitatively or qualitatively for the counting configuration or isotopes of concern, and no review of the results was accomplished to detect the presence of fission products.

This is a Severity Level IV violation. (Supplement IV)

9212020018 921124
PDR ADDCK 05000166
Q PDR

OFFICIAL RECORD COPY

3. 10 CFR 20.401(b) requires, in part, that each licensee maintain records showing the results of surveys required by 10 CFR 20.201(b).

Contrary to the above, as of October 6, 1992, the licensee did not maintain records of surveys required for determining postings, performed during beam tube, through tube, thermal column, and other operations, nor results of contamination surveys performed after experiments entailing use of the glove-box.

This is a Severity Level V violation. (Supplement IV)

Pursuant to 10 CFR 2.201, the University of Maryland is hereby required to submit a written statement or explanation to the U. S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington D.C. 20555 with a copy to the Regional Administrator, Region I within 30 days of the date of the letter transmitting this Notice of Violation (Notice). This reply should be clearly marked as a "Reply to a Notice of Violation" and should include for each violation: (1) the reason for the violation, or, if contested, the basis for disputing the violation, (2) the corrective steps that have been taken and the results achieved, (3) the corrective steps that will be taken to avoid further violations, and (4) the date when full compliance will be achieved. If an adequate reply is not received within the time specified in this Notice, an order or a demand for information may be issued as to why the license should not be modified, suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time.

Dated at King of Prussia, Pennsylvania
this 24th day of November 1992

OFFICIAL RECORD COPY