



UNIVERSITY OF MISSOURI

Research Reactor Facility

August 20, 1986

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US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Docket 50-186  
University of Missouri  
License R-103

Subject: Apparent exposure in excess of the quarterly limit for hands

Gentlemen:

This letter is to comply with the provision in 10CFR20.405(a)(1)(i) requiring reporting of exposures in excess of limits in 10CFR20.101(a).

On July 29, 1986 we received a call from our dosimeter vendor, R.S. Landauer Jr. & Co., that a TLD finger dosimeter for the month of June 1986 had recorded 23,560 mRem. The dosimeter had been worn by an employee June 9, 1986 while packaging Tm-170 wafers for shipment.

Following the phone call, a committee to investigate the exposure was activated as per our Standard Operating Procedure HP-22, Review of Unplanned, Unusual Radiation Exposures.

The employee's work on June 9 was closely monitored by Health Physics personnel, as it had been for two previous, similar operations performed by the employee, for which the highest recorded hand exposure was 530 mRem. The investigation is still active. In the meantime, we are showing the 23,560 mRem in the employee's exposure record. If the final conclusion of the investigation indicates that the recorded value should be changed, this will be changed only after recommendation by the HP-22 Committee.

If you have any questions, please contact me by phone or letter.

Sincerely,

Orval L. Olson  
Manager, Reactor Health Physics

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cc: US Nuclear Regulatory Commission Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137



AUG 25 1986