



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

August 22, 1979

Docket No. 50-320

MEMORANDUM FOR: J. T. Collins, Deputy Director, TMI-2 Support

FROM: J. Y. Lee, TMI-2 Support

SUBJECT: B&W MOCKUP DEMONSTRATION FOR THE TMI-2 CONTAINMENT BUILDING
REMOTE ACCESS AND SURVEILLANCE PROGRAM (R-626)

On August 15, 1979, I attended a meeting with Mike Morrell of GPU to witness a mockup demonstration for the TMI-2 containment building remote access and surveillance procedure (R-626) by B&W at Lynchburg, VA.

A spare penetration R-626 at 358' 6" elevation will be bored (9" diameter) using the same boring operation utilized for containment building water sampling procedure (4" diameter). Following the completion of the boring operation, the containment building remote surveillance will be accomplished by (1) inserting TV camera for a visual scan of the area, (2) inserting radiation surveillance monitors to evaluate β and γ fields, (3) obtaining air samples of the containment atmosphere, (4) obtaining samples of horizontal and vertical surface contamination using swiping techniques, and (5) inserting radiation survey equipment enshrouded with samples of radiation protective clothing for measurements of shielding effectiveness.

The intended mockup test by B&W was limited to the equipment demonstrations and procedural briefings and they did not perform a complete step by step procedural mockup test. The final refinements of design on the swiping devices, insertion and installation of the permanent radiation monitor, and containment humidity measurement devices are yet to be completed. Also, abnormal operating procedures and safety analysis on the failure to withdraw tools and equipment, failure to maintain pressure boundary in the glove box, and damage to the glove box gloves are yet to be performed.

I believe, therefore, a complete mockup and step by step procedural demonstration on boring operation, mounting of a glove box assembly between penetration R-626 and fuel handling building penetration R-1551, and surveillance procedures should be performed at the TMI-2 site prior to making the actual penetration.

Jay Y. Lee
TMI-2 Support

cc: H. Denton
R. Vollmer
R. Weller
R. Raymond, IE
B. Crocker, IE

P. 1001 25⁹

7909240 138