

AUG 12 1992

52-02

MEMORANDUM FOR: Thomas V. Wambach, Senior Project Manager
Standardization Project Directorate
Associate Director for Advanced Reactors
and Licensing Renewal
Office of Nuclear Reactor Regulation

FROM: LeMoine J. Cunningham, Chief
Radiation Protection Branch
Division of Radiation Protection
and Emergency Preparedness
Office of Nuclear Reactor Regulation

SUBJECT: IDENTIFICATION OF TMI REQUIREMENTS ADDRESSED IN FRPS INPUT
TO SYSTEM 80+ DRAFT SER

This memorandum is in response to your memorandum of July 23, 1992, requesting a listing of the TMI requirements addressed in our input to the CESSAR System 80+ DSER. The Facility Radiation Protection Section (FRPS) of the Radiation Protection Branch is responsible for reviewing TMI requirements II.B.2 (post-accident shielding), II.F.1-2 (containment high-range radiation monitor), and III.D.3.3 (post-accident iodine instrumentation). Below is a list of the status of each of these three TMI requirement issues:

II.B.2 - Post-accident shielding

This item is addressed in sections 12.2.3, 12.3.1, and 12.3.2 of the FRPS DSER input. Item II.B.2 of NUREG-0737 consists of several parts. Although the CESSAR does commit to meeting the post-accident dose rate requirements contained in item II.B.2, the CESSAR does not contain acceptable information on post-accident shielding reviews, vital areas descriptions, and post-accident integrated doses to personnel. Therefore the input to the DSER identifies this as open issue 12.3.2-1.

II.F.1-3 Containment high-range radiation monitor

This item is addressed in section 12.3.4 of the FRPS DSER input. In accordance with the requirements of item II.F.1-3, the CESSAR states that the containment will contain two physically separated high-range radiation monitors which will comply with the design requirements of Regulatory Guide 1.97. CESSAR commits to complying with the recommendations of item II.F.1-3 with respect to detector range, response, redundancy, separation, in-situ calibration, and environmental design qualification. However, since the applicant has not indicated the location of these high-range monitors on the plant layout drawings, the staff cannot determine that the applicant has fully complied with the recommendations of item II.F.1-3 of NUREG-0737 and this was identified as open issue 12.3.4-2 in our input to the DSER.

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III.D.3.3 Post-accident iodine instrumentation

This item is addressed in section 12.3.4 of the FRPS DSER input. In accordance with the requirements of item III.D.3.3, the CESSAR states that a portable airborne monitor will be available to allow accurate determination of airborne iodine concentrations in potentially occupied areas which would not be covered by fixed instrumentation. The CESSAR also states that this monitor will meet the equipment recommendations given in item III.D.3.3. However, each COL applicant must provide additional information concerning specific equipment to be used and procedures that will be followed to implement item III.D.3.3 of NUREG-0737. Therefore, this has been identified as COL Item 12.3.4-2 in our input to the DSER.

If you have any questions concerning the status of the above TMI issues, please contact Charles Hinson, 504-1845.

Original signed by LeMoine J. Cunningham

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