

 **Nuclear**

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US Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Auxiliary and Fuel Handling Building
Quarterly Decontamination Schedule

In response to the NRC letter dated March 7, 1984, the following is the status of Auxiliary and Fuel Handling Building Decontamination for the Fourth Quarter of 1986. This update only addresses those areas where Technical Specification Surveillances are not being performed due to ALARA considerations.

Make-up Filter Cubicle

ALARA exemption is being taken for Technical Specification Surveillance 4210-SUR-3775.02 (4331-R3), "Fire Barrier Penetration Fire Seal Inspection."

Recent radiological surveys show general area dose rates of 600 to 3000 mrem/hr with contact readings as high as 5.5 Rem/hr.

The fuel characterization program for this cubicle was completed during the past quarter. The results indicate no presence of reactor fuel above the Minimum Detectable Level (MDL). Therefore, it is estimated that not more than 42 grams of fuel is present in the two (2) Make-up and Purification Demineralizer Filters and two (2) Make-up Filters that are located in this cubicle.

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Flushing operations of the Make-up system initiated during the past quarter will continue into the first quarter of 1987. This work involves the use of system filters located in this cubicle, and may intermittently affect local radiation and contamination levels. After system flushing, decontamination of external surfaces will begin.

Seal Injection Cubicle

ALARA exemption is currently being taken for Technical Specification Surveillance 4210-SUR-3244.01 (4301-M8), "Containment Integrity Verification."

General area dose rates in the cubicle proper range from 1 R/hr - 56 R/hr, with hot spots of 100 R/hr - 355 R/hr.

The corridor area of the cubicle has been scabbled and temporary shielding placed between the inner end of the corridor and the main area. These actions have reduced general area dose rates in the corridor to 100-1000 mrem/hr.

Future work will include the incremental movement of temporary shielding into the main portions of the cubicle with follow-up scabbling operations to further reduce radiation levels. When feasible, resurfacing of the scabbled surfaces will be performed.

Make-up Pump Suction and Discharge Valve Alley

ALARA exemption is being taken for Technical Specification Surveillance 4210-SUR-3775.02 (4331-R3) and 4210-SUR-3775.01 (4331-A1), "Fire Barrier Penetration Fire Seal Inspections."

The general area dose rates for the suction alley range from 2 - 105 mR/hr, with hot spots reduced to no more than 1.5 R/hr. For the discharge alley, the general area dose rate ranges from 300-600 mR/hr, with hot spots of 5-10 R/hr.

System flushing operations were initiated during the past quarter and will continue as needed into 1987. Final surface decontamination activities will be performed in these cubicles when flushing operations have been concluded. General area radiation levels continue to be controlled by hot spots in the system piping, although a distinct reduction in hot spot radiation levels in the suction valve alley was indicated in recent radiological surveys (1.5 Rem/hr). This reduction is attributed to system flushing operations.

305' Elevation Make-up Valve Alley

ALARA exemption is being taken for Technical Specification Surveillance 4210-SUR-3775.02 (4331-R3), "Fire Penetration Fire Seal Inspection."

The general area dose rates are approximately 50-400 mR/hr with an average of approximately 100 mR/hr. A few hot spots, averaging 1 R/hr, remain in the piping and related components; a hot spot of 4 R/hr exists at the unshielded floor drain.

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System flushing operations began last quarter and will continue into 1987. External surface decontamination will be performed following system flushes.

Dose rates have been reduced in this cubicle to a point that performance of the Technical Specification Surveillance may be feasible. An ALARA review will be performed during the first quarter 1987 to determine if the surveillance can be performed.

Sincerely,



F. R. Standerfer
Vice President/Director, TMI-2

FRS/CJD/eml

cc: Regional Administrator, Office of I&E - Dr. T. E. Murley
Director, TMI-2 Cleanup Project Directorate - Dr. W. D. Travers