

February 28, 2003

Mr. John L. Skolds, Chairman  
and Chief Executive Officer  
AmerGen Energy Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) FAXED TO THE LICENSEE  
RE: THREE MILE ISLAND NUCLEAR STATION, UNIT-1 (TMI-1), INTEGRATED  
LEAK RATE TEST (ILRT) EXTENSION REQUEST (TAC NO. MB6487)

Dear Mr. Skolds:

By letter dated September 30, 2002, you requested a license amendment to revise the TMI-1 Technical Specifications (TSs) to allow a one-time deferral until no later than September 2008, of the scheduled performance of the next Type A containment ILRT. TS 6.8.5 would otherwise require the next ILRT to be performed by October 2003. The Nuclear Regulatory Commission staff has reviewed your request and determined that it will need the additional information contained in the enclosure to complete its review. As discussed with and agreed to by your staff on February 20, 2003, you are requested to provide your response within 30 days receipt of this request.

If you have any questions, please contact me at 301-415-1402.

Sincerely,

*/RA/*

Timothy G. Colburn, Senior Project Manager, Section 1  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-289

Enclosure: RAI

cc w/encl: See next page

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4300 Winfield Road  
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RE: THREE MILE ISLAND NUCLEAR STATION, UNIT-1 (TMI-1), INTEGRATED  
LEAK RATE TEST (ILRT) EXTENSION REQUEST (TAC NO. MB6487)

Dear Mr. Skolds:

By letter dated September 30, 2002, you requested a license amendment to revise the TMI-1 Technical Specifications (TSs) to allow a one-time deferral until no later than September 2008, of the scheduled performance of the next Type A containment ILRT. TS 6.8.5 would otherwise require the next ILRT to be performed by October 2003. The Nuclear Regulatory Commission staff has reviewed your request and determined that it will need the additional information contained in the enclosure to complete its review. As discussed with and agreed to by your staff on February 20, 2003, you are requested to provide your response within 30 days receipt of this request.

If you have any questions, please contact me at 301-415-1402.

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NAME	TColburn	MO'Brien	DTerao	MRubin	RLaufer
DATE	2/27/03	2/27/03	2/27/03	2/27/03	2/27/03

OFFICIAL RECORD COPY

REQUEST FOR ADDITIONAL INFORMATION

THREE MILE ISLAND NUCLEAR STATION, UNIT 1 (TMI-1)

REGARDING INTEGRATED LEAK RATE TEST (ILRT) EXTENSION REQUEST

DOCKET NO. 50-289

1. Please provide specifics on what is the accessible surface of the containment liner that was examined. Sketches or drawings would be helpful.
2. Please provide specifics on exam results including nondestructive examination exam data (surface and volumetric), trending information on corrosion and wall thickness measurements especially in the area of the moisture barrier interface.
3. Please provide any other specific data and supporting information that the licensee may have used to conclude that there is no thinning of the liner and that the concrete interface is intact in all locations.
4. Inspections of some reinforced and steel containments (e.g., North Anna, Brunswick, D. C. Cook, and Oyster Creek) have indicated degradation from the uninspectable (embedded) side of the steel shell and liner of primary containments. The major uninspectable areas of the TMI-1 containment include the portion of the steel shell embedded in the basemat and the inaccessible areas between the steel liner and concrete containment. Please provide a quantitative assessment of the impact on large early release frequency (LERF) due to age-related degradation in these areas, in support of the requested ILRT interval extension from 10 to 15 years.
5. Please provide an assessment of the impact of observed liner corrosion/thinning at the moisture barrier on the containment ultimate pressure capacity credited in the Level 2 probability risk assessment (i.e., the probability of containment over-pressure failure as a function of containment pressure). Discuss any relationship between those portions of the liner affected by the observed corrosion, and the most likely containment failure locations according to the ultimate pressure capacity analysis.
6. The September 30, 2002, submittal states that the increase in LERF associated with a change in test frequency from 1 test in 10 years to 1 test in 15 years is  $2.6E-7$ /year when both internal and external events are considered. Please provide the corresponding risk result assuming a change in test frequency from 3 tests in 10 years to 1 test in 15 years.
7. Provide the technical justification for the assumption in the risk analysis that all release categories with fission product scrubbing (according to the general characteristics described in the notes to Table 2-2 in Attachment 4, to the September 30, 2002, application) will leave sufficient scrubbing such that these releases will not contribute to LERF. Include the definition of LERF used for this determination.

Enclosure

Three Mile Island Nuclear Station, Unit 1

cc:

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Three Mile Island Nuclear Station, Unit 1

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