

February 2, 2012

Mr. Kamran Tavassoli
Licensing Manager
Transnuclear, Inc.
7135 Minstrel Way, Suite 300
Columbia, MD 21045

SUBJECT: IDENTIFICATION OF SITES USING HORIZONTAL STORAGE MODULES WITH
THRU HOLE PENETRATIONS

Dear Mr. Tavassoli:

The concrete storage modules utilized at the Three Mile Island Unit 2 (TMI-2) Independent Spent Fuel Storage Installation (ISFSI) have experienced significant cracking in a short period of time. Evaluations determined that the primary cause for this cracking appeared to be water entering thru hole penetrations in the roof of the storage modules which subsequently underwent freeze/thaw cycles. The storage modules at the TMI-2 ISFSI are based upon Certificate of Compliance (CoC) No. 1004 which is held by Transnuclear, Inc. (TN). On July 21, 2011, a phone call between TN and NRC staff occurred to discuss this issue (ADAMS Accession Number ML112030412) and to identify other sites which both employed this design and utilized thru hole penetrations.

Because the focus of the phone call was concrete degradation, the only ISFSI utilizing this design with thru hole penetrations discussed during the phone call, other than TMI-2, was the general license ISFSI at the Millstone nuclear plant. However, staff believes thru hole penetrations may be used with this design at other sites as well. Therefore, TN is requested to provide a list of sites utilizing CoC No. 1004 in conjunction with thru hole penetrations. Please provide a response to this letter within thirty (30) days of the date of this letter. If you have any questions or concerns regarding this request, please contact me at (301) 492-3148.

Sincerely,

/RA/

William Allen, Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket Nos.: 72-20
72-1004

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Distribution: Jennifer Davis

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