



NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

June 27, 1984

Docket No. 50-289

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- ~~Murphy~~  
- file

MEMORANDUM FOR:

H. Denton	R. Vollmer
E. Case	R. Mattson
G. Edison	H. Thompson
D. Eisenhower	B. Snyder
R. Purple	<del>G. Helchen</del>
S. Laines	S. Varga
T. Novak	D. Vassallo
F. Miraglia	J. Miller
T. Speis	D. Crutchfield

FROM: John F. Stolz, Chief, Operating Reactors Branch No. 4,  
Division of Licensing

SUBJECT: DAILY HIGHLIGHT - TMI-1

On June 25, the staff was informed by the licensee that primary to secondary leakage was detected in the "B" OTSG at TMI-1 by chemical measurements of boron and cesium in the secondary system. The plant was in cold shutdown with the RCS pressurized to about 50 psig with nitrogen. The licensee subsequently examined both the "B" and "A" OTSGs using bubble testing and tube plugs to locate the leakage sources. All the leakage is occurring at the repaired tube to tubesheet interfaces.

For the "B" OTSG, one tube (80-45) appears to be the source of most of the leakage (1.5 to 1.7 gal/hr. cold). Four other tubes show trace leakage at the repaired joint.

For the "A" OTSG, three or four tubes show trace leakage. The licensee plans boroscopic and ECT examination of the 80-45 tube before plugging the tube to remove it from service.

TMI-1 has conducted two hot functional tests since the repairs were completed in July of 1983.

The licensee plans to submit a letter report on this matter within the next few days.

*Handwritten signature:* John F. Stolz  
John F. Stolz, Chief  
Operating Reactors Branch No. 4  
Division of Licensing

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