

April 4, 1979  
TMI-79-47

KELLY MEMO  
NOV 1, 1977

Mr. G. P. Miller  
Station Superintendent  
Metropolitan Edison Company  
P.O. Box 480  
Middletown, PA 17057

141

Subject: Three Mile Island Nuclear Generating Station - Unit 1  
TMI-2 Loss of Feedwater Transient

Dear Mr. Miller:

Although details of the causes and course of events of the incident at Metropolitan Edison's TMI-2 plant on March 28, 1979 are still being developed, it appears that the incident was initiated by a loss-of-main feedwater flow (LOFW) and that a distinguishing characteristic of this transient compared to other previous LOFW transients was the securing of the High Pressure Injection (HPI) system. Consequently, all operating plants are advised to implement the following immediately:

If the HPI system has actuated because of low pressure condition, it must remain in operation until either:

1. Both LPI pumps are in operation and flowing at a rate in excess of 1000 GPM each and the situation has been stable for 20 minutes.
- OR
2. The HPI system has been in operation for 20 minutes and all hot and cold leg temperatures are at least 50° below the saturation temperature for the existing RCS pressure. If 50° subcooling cannot be maintained, the HPI shall be reactivated.

If the HPI system has been activated and if RC pumps are in operation, at least one RCP pump per loop should be maintained.

This information supplements that previously transmitted. If you have any questions regarding this advisory, please advise.

Very truly yours,

*G. T. Fairburn*

G. T. Fairburn  
Service Manager

**POOR ORIGINAL**

GTF/hh

- cc: RM Klingaman  
JF Hilbish  
LL Lawyer  
JL Seelinger  
CR Montgomery  
LC Rogers  
SL Smith

- bcc: JD Phinney  
RL Pittman  
TM Dixens  
GM Olds  
HA Bailey  
Record Ctr. NSS-5 T1.2

The Babcock & Wilcox Company / Es