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REMARKS

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TO BE PLACED IN NRC PDR

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room NoRidg. P-1122B		
Robert L. Tedesco, L <sup>2</sup> Task	Force, TMI-2	Phone No. X28090	
5041-102 ☆ U.S. GPO:1977-0-241-530/3228	OPTIONAL FORM 41 (Rev. 7-76) Prescribed by GSA FPMR (41 CFR) 101-11.206		

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## UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

JUN 1 8 1979

MEMORANDUM FOR: N. C. Mosely, Director, Division of Reactor Operations Inspection, IE

FROM: W. C. Milstead, Lessons Learned Task Force

SUBJECT:

REQUEST FOR INFORMATION REGARDING HYDROGEN EXPLOSION AT TMI-2

At about 2:00 pm on March 28, 1979, TMI-2 containment pressure rapidly increased to about 28 psig and was rapidly reduced to the initial pressure (2 psig). On page 5 of the TMI staff interview of Craig Faust conducted at 14:00 hours on April 6, 1979 by T. Van Whitbeck, et al. Mr. Faust stated "we probably had some kind of explosion because that is what it looked like; shock waves."

The only record we have seen of the 28 psig pressure spike which appears to be a hydrogen fire or explosion is on a graph for which the time scale is 1/2 inch equals 60 minutes. Using the information from this figure, in my judgement I cannot tell whether the recorded pressure spike was caused by a fire or an explosion. Mr. Faust's statement seems to indicate that some containment pressure measurements showed pulsations not present on the trace I have seen. If such is the case I would like a description of the behavior of containment pressure preferably a copy of a figure of the containment pressure vs. time showing oscillatory behavior, if it exists. Information which may provide insight to the manner of hydrogen combustion in the containment will be useful in evaluating the current design capability of post accident containment, combustible grs control systems and determining the need for changes in design requirements for future application. My request is consistent with the goals of IE's investigation expressed in Mr. Davis' letter of April 20, 1979 to the Commission.

Thank you.

William Milstead, Lessens Learned Task Force Containment Systems Branch Division of Systems Safety

and a weat

cc: R. Mattson R. Tedesco R. Ireland W. Butler J. Kudrick

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