

MAY 25 1979

Dr. Norman Slagg, Supervisory Chemist
Dynamics Branch, Energetic Materials Division LCWSL
U.S. Army Armament Research and Development Command
Dover, New Jersey 07801

Dear Dr. Slagg:

We wish to express our appreciation for the assistance you, your staff and others provided to the Nuclear Regulatory Commission staff regarding the hydrogen bubble problem at Three Mile Island-2 nuclear facility by calculating potential explosion pressures in the upper region of the reactor vessel for the various postulated gas mixtures provided to you. We realize that many concerned persons worked evenings and weekends as well as regular hours to provide us with timely information.

It has since been determined that the available oxygen for detonation or deflagration of the hydrogen was considerably less than assumed at the time, however, this does not lessen our appreciation of your efforts.

Please convey our thanks to your associates and to Dr. John Kurylo and Professor A. K. Oppenheim of the Lawrence Berkeley Laboratory for their report on this matter.

Sincerely,

Original Signed by
H. R. Denton

556131

Harold R. Denton, Director
Office of Nuclear Reactor Regulation

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Dr. Norman Slagg, Supervisory Chemist
Dynamics Branch, Energetic Materials Division LCWSL
U.S. Army Armament Research and Development Command
Dover, New Jersey 07801

Dear Dr. Slagg:

We wish to express our appreciation for the assistance you, your staff and others provided to the Nuclear Regulatory Commission staff regarding possible reactor vessel and containment vessel response in connection with the hydrogen bubble problem at Three Mile Island-2 nuclear facility last month. We realize that many concerned persons worked evenings and weekends as well as regular hours to provide us with timely information.

It has since been determined that the available oxygen for detonation or deflagration of the hydrogen was considerably less than we assumed at the time, however, this does not lessen our appreciation of your efforts.

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SURNAME	RKlecker	VNoonan	BKGrimes	Stalio	HRDenton
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 Dynamics Branch, Energetic Materials Division LCNSL
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OFFICE →	EB:DOR	EB:DOR	AD:ESP-DOR	DOR	NRR
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