

NOV 19 1979

Mrs. Georgia Lookingbill  
1359 Bradley Avenue  
Hummelstown, Pennsylvania 17036

Dear Mrs. Lookingbill:

In response to your request of October 17, 1979, enclosed is the list entitled "Lessons Learned Items for TMI-1 Restart" which was distributed at the October 17 meeting at Middletown Liberty Fire Company Hall.

If we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Original signed by:  
Richard H. Vollmer

Richard H. Vollmer, Director  
Three Mile Island Support

Enclosure:  
As stated

DISTRIBUTION:

- Docket Files - 50-289
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- SMiner
- JCollins
- Woliu
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- RReid
- DDianni
- CNelson
- HSilver
- PKreutzer/LA
- HSilver

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OFFICE	TMI	TMI	D/TMI		
SURNAME	PKreutzer	HSilver	RVollmer		
DATE	11/16/79	11/16/79	11/16/79		

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LESSONS LEARNED ITEMS FOR TMI-1 RESTART

Item	Description	NUREG-0578 Number	Met-Ed Submittal	Remarks
1.	Emergency Power Supply Requirements	2.1.1	2.1.1.3	Addressed in submittal
2.	Relief and Safety Valve Testing	2.1.2	10.2	Addressed in submittal
3.	Direct Indication of Valve Position	2.1.3.a	2.1.1.2	Addressed in submittal
4.	Instrumentation for Inadequate Core Cooling	2.1.3.b	2.1.1.6	Addressed in submittal
5.	Diverse Containment Isolation	2.1.4	2.1.1.5	Addressed in submittal
6.	Dedicated H <sub>2</sub> Control Penetrations	2.1.5.a	2.1.1.4	Addressed in submittal
7.	Inerting BWR Containments	2.1.5.b	None	Not Applicable
8.	Combustible Gas Control Recombiner	2.1.5.c	2.1.1.4	Rulemaking
9.	System Integrity for High Radioactivity	2.1.6.a	None	To be submitted
10.	Plant Shielding Review	2.1.6.b	None	To be submitted
11.	Auto Initiation of Auxiliary Feedwater	2.1.7.a	2.1.1.7	Addressed in submittal
12.	Auxiliary Feedwater Flow Indication	2.1.7.b	2.1.1.7	Addressed in submittal
13.	Post Accident Sampling	2.1.8.a	None	To be submitted
14.	High Range Radiation Monitors	2.1.8.b	None	To be submitted
15.	Improved Iodine Instrumentation	2.1.8.c	None	To be submitted

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LESSONS LEARNED ITEMS FOR TMI-1 RESTART

Item	Description	NUREG-0578 Number	Met-Ed Submittal	Remarks
16.	Transient and Accident Analysis	2.1.9	8.1	Addressed in submittal
17.	Shift Supervisor Responsibilities	2.2.1.a	5.2.4	Addressed in submittal
18.	Shift Technical Advisor	2.2.1.b	5.2.8	Addressed in submittal
19.	Shift Turnover Procedures	2.2.1.c	None	To be submitted
20.	Control Room Access Control	2.2.2.a	None	To be submitted
21.	Onsite Technical Support Center	2.2.2.b	None	To be submitted
22.	Onsite Operational Support Center	2.2.2.c	None	To be submitted
23.	Revised Limiting Condition for Operation	2.2.3	None	Rulemaking
24.	Containment Pressure Instrumentation	ACRS #1	None	Not Addressed
25.	Containment Water Level Instrumentation	ACRS #2	None	Not Addressed
26.	Containment Hydrogen Concentration Instrumentation	ACRS #3	None	Not Addressed
27.	Remote High Point Venting	Denton #1	None	Not Addressed
28.	Emergency Preparedness	Eisenhut #1	4.0	To be submitted

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## IMPLEMENTATION SCHEDULE

Section	Description	Implementation
2.1.1	Emergency Power Supply Requirements Complete Implementation	January 1, 1980
2.1.2	Relief and Safety Valve Testing Submit Program Description and Schedule Complete Test Program	January 1, 1980 July 1981
2.1.3.a	Direct Indication of Valve Position Complete Implementation	January 1, 1980
2.1.3.b	Instrumentation for Inadequate Core Cooling Develop Procedures and Describe Existing Instrumentation New Level Instrumentation Design Submitted Subcooling Meter Installed New Level Instrumentation Installed	January 1, 1980 January 1, 1980 January 1, 1980 January 1, 1981
2.1.4	Diverse Containment Isolation Complete Implementation	January 1, 1980
2.1.5.a	Dedicated H <sub>2</sub> Control Penetrations Description and Implementation Schedule Complete Installation	January 1, 1980 January 1, 1981
2.1.5.b	Inerting BWR Containments Complete Implementation	None (Not Applicable)
2.1.5.c	Combustible Gas Control Recombiner Complete Implementation	None (Rulemaking)
2.1.6.a	System Integrity for High Radioactivity Immediate Leak Reduction Program Preventive Maintenance Program	January 1, 1980 January 1, 1980

Section	Description	Implementation
2.1.6.b	Plant Shielding Review	
	Complete Design Review	January 1, 1980
	Implement Plant Modifications	January 1, 1981
2.1.7.a	Auto Initiation of Auxiliary Feedwater	
	Complete Implementation of Control Grade	January 1, 1980
	Complete Implementation of Safety Grade	January 1, 1981
2.1.7.b	Auxiliary Feedwater Flow Indication	
	Complete Implementation	January 1, 1980
2.1.8.a	Post Accident Sampling	
	Complete Design Review	January 1, 1980
	Preparation of Revised Procedures	January 1, 1980
	Implement Plant Modifications	January 1, 1981
	Description of Proposed Modifications	January 1, 1980
2.1.8.b	High Range Radiation Monitors	
	Complete Installation	January 1, 1981
2.1.8.c.	Improved Iodine Instrumentation	
	Complete Implementation	January 1, 198
2.1.9	Transient and Accident Analysis	
	SBLOCA Analysis and Procedure Guidelines	July-September, 1979
	Implement SBLOCA Procedures and Retraining	December 31, 1979
	ICC Analysis and Procedure Guidelines	October 1979
	Implement ICC Procedures and Retraining	January 1980
	Transient and Accident Analysis and Procedure Guidelines	Early 1980
	Implement T&A Procedures and Retraining	Early 1980 + 3 Months
	LOFT SBLOCA Analysis	Pretest

## IMPLEMENTATION SCHEDULE

Section	Description	Implementation
2.2.1.a	Shift Supervisor Responsibilities Complete Implementation	January 1, 1980
2.2.1.b	Shift Technical Advisor Shift Technical Advisor on Duty Complete Training	January 1, 1980 January 1, 1981
2.2.1.c	Shift Turnover Procedures Complete Implementation	January 1, 1980
2.2.2.a	Control Room Access Control Complete Implementation	January 1, 1980
2.2.2.b	Onsite Technical Support Center Establish Center	January 1, 1980
2.2.2.c	Onsite Operational Support Center Complete Implementation	January 1, 1980
2.2.3	Revised Limiting Condition for Operation Complete Implementation	None (Rulemaking)
ACRS #1	Containment Pressure Instrumentation Complete Installation	January 1, 1981
ACRS #2	Containment Water Level Instrumentation Complete Installation	January 1, 1981
ACRS #3	Containment Hydrogen Concentration Instrumentation Complete Installation	January 1, 1981
Denton #1	Remote High Point Venting Design Submitted Installation Complete	January 1, 1980 January 1, 1981

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Section	Description	Implementation
	Emergency Preparedness	
	Upgrade Emergency Plans to Reg. Guide 1.101	Mid-1980
	Post Accident Sampling Design Review Complete	January 1, 1980
	Revised Procedures for Post Accident Sampling	January 1, 1980
	Description of Proposed Modifications	January 1, 1980
	Implement Plant Modifications	January 1, 1981
	Methods for Estimating High Release	January 1, 1980
	High Range Release Monitors	January 1, 1981
	Improved Iodine Instrumentation	January 1, 1980
	Location of Emergency Operations Center and Alternate with Communications	Mid-1980
	Upgrade Emergency Operations Center with Onsite Technical Support Center	January 1, 1981