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APR 27 1979

MEMORANDUM FOR: Lee V. Gossick
Executive Director for Operations

FROM: Harold R. Denton, Director
Office of Nuclear Reactor Regulation

SUBJECT: ACTIONS RELATED TO TMI

Per your request of April 20, 1979, we have reviewed the list of actions related to the TMI accident.

As you know, we have received many requests for analyses and evaluations about TMI and about the adequacy of various areas of the licensing process. Generally, these requests have coincided with efforts we had already determined to be required, although we have had to adjust our priorities and schedules to comply with them. In any event, these efforts have caused major dislocations in our ability to act on other licensing areas.

While the grouping of efforts into five broad categories, as set forth in your memorandum, aids in determining the variety of efforts that have resulted from TMI, that scheme does not permit a ready understanding of the overall organization and scope of NRR activities. Accordingly, we have enclosed a general chart that sets forth the various types of work efforts that are or will need to be pursued, within which there will be a variety of efforts. Allocation of resources and setting of priorities amongst the various efforts must be accomplished. Similarly, some discipline and ordering of proposed new efforts needs to be accomplished if the overall program is to move forward in a reasonably structured way.

We would urge that you consider a restructuring of the tasks in your draft memo along the lines of the enclosed. I recommend that a TMI-group, comprised of one senior representative from each major program office, be formed to: (1) review the listed activities; (2) decide the activities needed; and (3) assign organizational responsibility. Each responsible organization should then prepare a detailed program plan for their activities to be submitted to the TMI-group. The TMI-group should then prepare an overall program plan for presentation to the Commission for review and approval.

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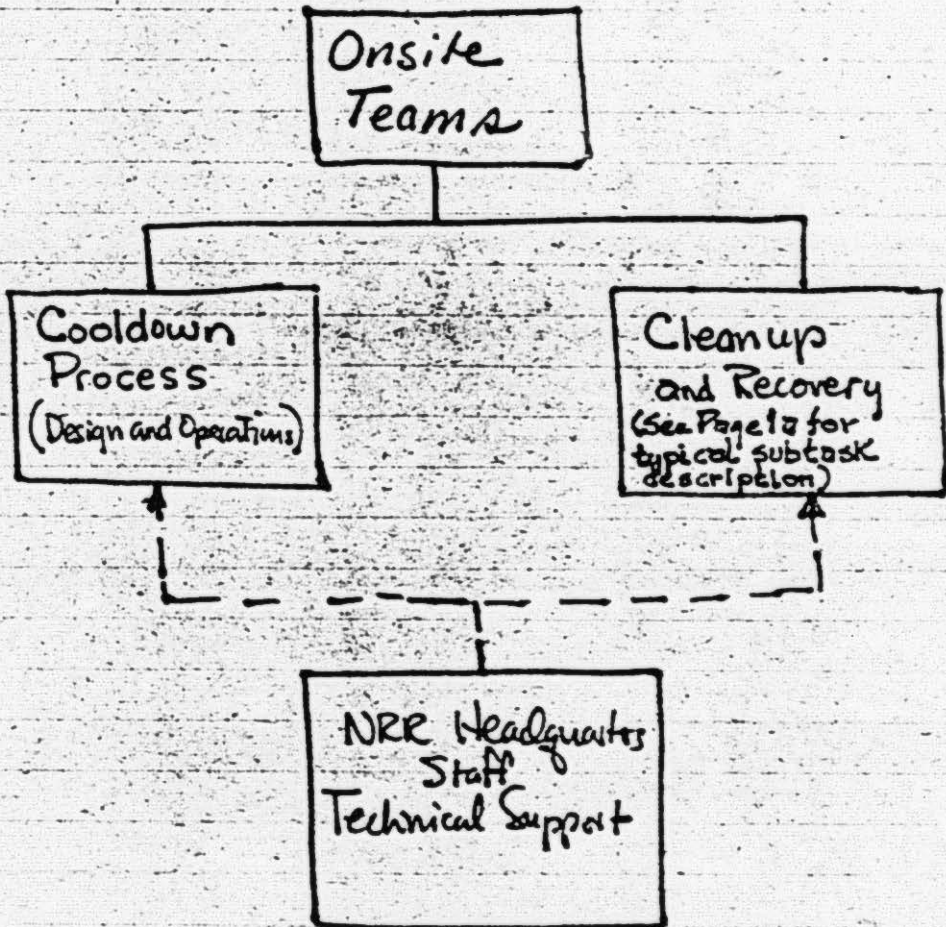
Harold R. Denton, Director
Office of Nuclear Reactor Regulation

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Enclosure: offered Stated	NRR:PSS:D	NRR:DD	NRR:D	
OFFICER	DFBunch:d1r	EGCase	HRDenton	
DATE	04/27/79	04/27/79	04/27/79	

NRR Activities Related to TMI-2

Onsite Activities



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Task - Cleanup and Recovery Ops - TMI-2

Objective: Monitor, review and approve licensee's cleanup and recovery operations to assure that occupational and offsite doses are ALARA.

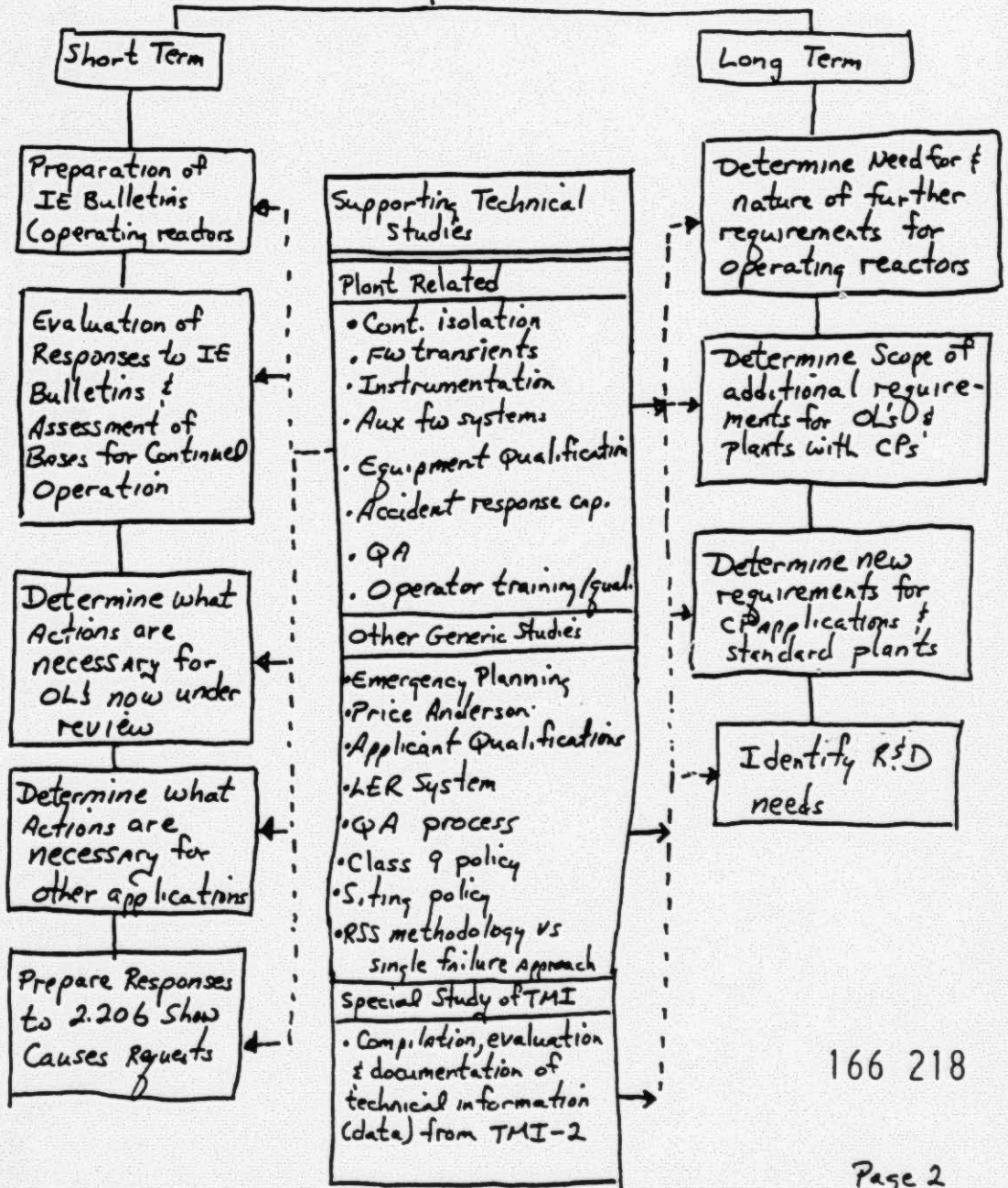
Scope: TMI-2 Site Activities

Responsibilities: DOR/DSE

Participants:

	<u>NRR</u>	<u>NMSS</u>	<u>OSD</u>	<u>SP</u>	<u>TE</u>	<u>Other</u>
Cleanup-up	EEB	LLWBr				EP
	ETSB	Trans Br				St. of Ill.
	RAB					DOE
	AAB					DOT
	OR Proj					HEW
Recovery	RSB					
	CPB					
	ASB					
	ICSB					
	PSB					

Review of Current Licensing Requirements



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INFORMATION AND CORRESPONDENCE
ACTIVITIES

FOIA Requests

Congressional Correspondence

State Governments
and
Other Federal Agencies

Foreign Governments

General Public

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Participation and Interface
with
Other Investigations

Presidential Investigations

Congressional Investigations

Commission Investigation

I&E Investigations

EDO Investigations
(Nec Incident Response)

TMI FOLLOWUP ACTIONS - NRR

<u>Task</u>	<u>CONTACT</u>	<u>ACTIONS</u>
1. TMI DESIGN DEFICIENCIES	Aycock/Miraglia	
1.1 Valving Out Safety Systems		
1.2 Reliability of Pressurizer Level Indication		
1.3 Failed Open Relief Valves		
1.4 Containment Interlocks		
1.5 RCP Status		
1.6 Re-evaluation of FW Transients in B&W	Tedesco	
2. Operator Training & Re-examination	Collins	
2.1 Short-term incident response program		
3. Emergency Planning	Priebe	
4. Show cause/Shutdown Petitions, etc.	Crutchfield	
4.1 Response to Mail		
4.2 Congressional Testimony		
4.3 Petitions		
5. Lessons Learned	Bunch	
5.1 Emergency Communications & Incident Response		
5.2 Accidents considered in Licensing Process		
5.3 Reliance on Industry Self-Policing & QA		
5.4 Post Accident Plant Analyses (inc RG 1.97)		
5.5 Followup on LERs & Tech Issues		

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Continuing Support of TMI Site

<u>Task/Accomplishment</u>	<u>Schedule</u>	<u>Budget Impact</u>	<u>Responsible Office</u>
<u>A. Administrative</u>			
1. Policy questions relating to personnel matters (hazard pay for NRC employees, premium and overtime pay, travel, per diem, etc.)	4/27/79	To Be Determined	ADM (O&P) NRR provided
2. Clerical Support (on site)	To Be Determined	TBD	ADM (O&P) NRR provided
3. Letters to Met. Ed. on license fees (Bills for safety and safeguards inspection fees, additional specification changes, review and approval of contingency plan, etc.)	4/23/79	TBD	ADM
4. Review and listing of all procurement actions made as a result of TMI	TBD	TBD	ADM
5. Headquarters Support			
a. Special Docket File room			ADM (TIDC)
b. Graphics/duplications/ public address systems	Continuing	TBD	ADM
6. Information Policy (FOIA)			
a. Response to FOIA requests	Continuing	TBD	ADM (DRR) NRR Input
b. Provide legal assistance re FOIA requests	Continuing	TBD	OELD

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<u>Task/Accomplishment</u>	<u>Schedule</u>	<u>Budget Impact</u>	<u>Responsible Office</u>
7. Special file searches, coordination of abnormal occurrence reports, coordination of responses for information from other offices	Continuing	TBD	MPA
8. Security Support Services for NRC Operations	TBD	TBD	ADM (FSSB)
9. Immediate Legal Ramifications of TMI			
a. Appeal Board hearing on airplane crashes	TBD	TBD	OELD
b. Assist NRR in preparation of legal documents relating to changes in license	TBD	TBD	OELD
<u>B. Technical</u>			
1. General Assistance at the TMI Site	Continuing	TBS	NRR/IE, and assistance from all appropriate offic
2. Core Meltdown Analysis (NRR staff performed similar analysis - action complete)	Continuing	TBD	RES
3. Noise Analysis Diagnostic Coordination	Continuing	TBD	RES
4. Natural Circulation TH System Analysis (NRR is continuing review in this area for all PWR designs).	Continuing	TBD	RES
5. Containment Venting Conceptual Design	Continuing	TBD	RES

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<u>Task/Accomplishment</u>	<u>Schedule</u>	<u>Budget Impact</u>	<u>Responsible Office</u>
6. Core Flow Blockage Predictions	Continuing	TBD	RES
7. Decay Heat Analysis <i>NRR staff circ. studies include this activity.</i>	Continuing	TBD	RES
8. Validate concentration/dose projections with field dose monitors (TLDs, ARMs, etc.)	Continuing	TBD	RES
9. Compare straight line projections with ADPIC terrain model	Continuing	TBD	RES
10. Attempt to project doses with new dispersion model (terrain dependent) and compare results	Continuing	TBD	RES
11. Hydrogen uptake and dissolution in Reactor Systems Test-Billings, Provo, Utah	Continuing	TBD	RES
12. TMI Mockup and Small Break Tests - Semiscale, INEL	Continuing	TBD	RES
13. Inputting TMI-2 fuel parameters into COBRA and calculate fuel damage due to 3/28/79 accident <i>NRR report on fuel damage issued April 6, 1979.</i>	TBD	TBD	RES
14. Provide interpretation and understanding of ΔP readout in TMI-2 Control Room during a stuck relief valve incident	4/14/79	TBD	RES

TMI Investigation Activities

<u>Task/Accomplishment</u>	<u>Schedule</u>	<u>Budget Impact</u>	<u>Responsible Office</u>
<u>A. EDO Investigation</u>			
1. IE Investigation	8/1/79	To be determined	IE
a. Provide legal assistance	Continuing		ELD
b. Categorization of event-related materials in IRC	Completed		MPA
c. Prepare chronology of NRC response to accident	Completed		MPA
d. Summary of Operations Center tape, 3/30	Completed		MPA/IE
e. Transcription of Commission tapes	TBD		MPA/ADM
f. 4/13/79 memo from EDO requesting individual records of actions during accident	TBD	TBD	OIA
2. Develop repository for TMI documentation	5/1/79	TBD	OIA
3. Complete preliminary report on accident dose assessment	4/26/79	TBD	SD
<i>(NRC continues to provide staff and analyses on accident consequences)</i>			
<u>B. NRC Commissioners' Investigation</u>			
1. Establish and staff office of special inquiry	TBD	TBD	ADM

Improving Future NRC Response Capability

	<u>Task/Accomplishment</u>	<u>Schedule</u>	<u>Budget Impact</u>	<u>Responsible Office</u>
1.	Operations Center Modifications	7/1/79	To Be Determined	IE
	a. Expanded Communications w/States	7/1/79	TBD	IE/SP
	b. Emergency Communications	To be Determined	TBD	ADM
	c. 24-hr. Duty Officer	4/20/79	TBD	ADM
2.	Accelerated/Expanded Resident Program	6/15/79	TBD	IE
	a. Communications	TBD		ADM
3.	Examine IE Hq. Organization	7/1/79	TBD	IE
4.	Emergency Planning			
	a. Review of State Plans	11/79-3/80	TBD	SP
	b. Completion of NUREG 0396 (NER co-chairs Task Force)	7/15/79		SP/NER
	c. RES effort (ARAC, etc.)	TBD		RES
5.	Application of Price-Anderson (AIG/NER provides technical input)	Continuing	TBD	OELD

Improving Technical Base

<u>Task/Accomplishment</u>	<u>Schedule</u>	<u>Budget Impact</u>	<u>Responsible Office</u>
1. Evaluation of Responses to IE Bulletins	5/15/79	To Be Determined	NRR/IE
2. ACRS Reviews	4/79	N/A	NRR
3. Rough estimates on the probability of the TMI event computed on the basis of the methods used in the Reactor Safety Study	4/30/79	TBD	RES
4. Studying possibility of accelerating LOFT small break tests	Plans: 4/79 Tests: 10/79	TBD	RES
5. Imputing TMI-2 characteristics into TRAC at LASL and calculate the 3/28/79 transient	5/31/79	TBD	RES
6. "Lessons Learned"	9/15/79	TBD	NRR
7. Reordering of Standards ^{(See Block Diagrams. Broad leaves involving many cleaning activities. Detailed Task Descriptions to be developed).} priorities	5/2/79	TBD	SD