Distribution:
Central Files
RRAB r/f
A.Thadani
P.O'Reilly
O'Reilly chron

AUG 2 8 1980

MEMORANDUM FOR: Karl Kniel, Chief, Generic Issues Branch, DST

FROM: A. C. Thadani, Chief, Reliability & Risk Assessment Branch, DST

SUBJECT: TMI ACTION PLAN SUMMARIES

As you requested in your August 21, 1980 note, we have completed summaries for TMI Action Plan Items II.C.1, II.C.2, and II.C.4. The completed summaries are contained in the enclosure. If you have any questions, please contact us.

Original signed by

Ashok C. Thadani, Chief
Reliability & Risk Assessment Branch
Division of Safety Technology

Enclosure:
As Stated

cc: F. Schroeder
M. Ernst
P. Norian
W. Minners
R. Bernero

Contact: Pat O'Reilly, NRR
49-29401

I DAR-5
TMI

OFFICE ►	DST:RRAB	DST:RRAB				
SURNAME ►	PDO'Reilly:cj	ACThadani				
DATE ►	08/27/80	08/28/80				

NRC Form 318A (4-79) NRCM 0240 ★ U.S. GOVERNMENT PRINTING OFFICE: 1979—293-405

8011050 330

(7-80)

TMI
ACTION PLAN SUMMARY

II, C, 4

2. TACS NUMBER
Not assigned

3. REVISION DATE (MO DAY YR)
N/A

4. TITLE
RELIABILITY ENGINEERING

5. PURPOSE AND SCOPE
NRR will develop criteria and procedures to apply reliability engineering practices to nuclear plant activities on a comprehensive and consistent basis. Ultimately, reliability assurance program requirements will be promulgated by SD in a new regulatory guide.

6. RESPONSIBILITY

INDIVIDUAL	PHONE NUMBER	ORGANIZATION (Division, branch)
Ashok C. Thadani	49-28090	DST/Reliability & Risk Assessment Branch

7. OTHERS INVOLVED

INDIVIDUAL	BRANCH
FY 1982 - Schedule dependent on availability of resources	

8. ORIGINAL SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
	See Item 7 above	

9. CURRENT SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
	N/A	

10. MAJOR ACCOMPLISHMENTS (List major accomplishments to date, including date accomplished)
N/A

11. CURRENT STATUS (Limit to 150 words)
N/A

12. ISSUES OR PROBLEMS (Limit to 50 words)
Initiation of this action item depends upon the availability of resources.

(7-80)

TMI
ACTION PLAN SUMMARY

II , C , 1

2. TAC NUMBER: 0 4 0 0 1 3

3. REVISION DATE: MO 07 DAY 15 YR 80

4. TITLE: INTERIM RELIABILITY EVALUATION PROGRAM (IREP)

5. PURPOSE AND SCOPE: Probabilistic risk assessment methods will be used to identify particularly high-risk accident sequences at individual plants and to determine regulatory measures to reduce these high-risk sequences. Initial IREP consists of a pilot study of a single plant (Crystal River Unit 3), followed by a scaled-up study of six plants, in parallel with standardization of the methodology.

6. RESPONSIBILITY

INDIVIDUAL	PHONE NUMBER	ORGANIZATION (Division, branch)
Robert Bernero	49-28528	Director, Probabilistic Analysis Staff, RES

7. OTHERS INVOLVED

INDIVIDUAL	BRANCH
Sarah Davis - NRR/DST/RRAB	Donald Lasher - NRR/DSI/SIB
Ronald K. Frahm - NRR/DST/RRAB	John Tsao - NRR/DOE/MEB
Patrick D. O'Reilly - NRR/DST/RRAB	

8. ORIGINAL SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
08/79	Pilot Study (CR-3)	05/80
N/A	Initial draft recommendations based on findings	07/80
07/80	Regulatory eval.&rqmts for implem. of gen.findngs of pilot study	09/80

9. CURRENT SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
11/79	Pilot Study (CR-3)	05/80
06/80	Regulatory eval.&rqmts for implem. of gen.findngs	Unknown
09/80	Six-plant study	07/81

10. MAJOR ACCOMPLISHMENTS (List major accomplishments to date, including date accomplished): Pilot study completed & draft report documenting findings & recommendations of pilot study issued for peer review May 30, 1980. Comments received from peer review during June & July, 1980. Instructions transmitted to four plants participating in Phase II (number of

11. CURRENT STATUS (Limit to 150 words): Draft report documenting findings and recommendations of pilot study is undergoing revision by contractor to address comments received during peer review.

12. ISSUES OR PROBLEMS (Limit to 50 words): Significant deficiencies identified during peer review may require major revision of report documenting findings and recommendations of pilot study. This could adversely impact the projected schedule for completion of the pilot study effort.

(7-80)

8. Original Schedule

05/80	Six-plant study	03/81
N/A	Initial draft recommendations based on findings	05/81
05/81	Regulatory evaluation & requirements for implementation of generic findings	10/81

9. Current Schedule

N/A	Initial draft recommendations based on findings	09/81
09/81	Regulatory evaluation & requirements for implementation of generic findings	02/82

10. Major Accomplishments

participants reduced to four because two licensees out of the original group of six are performing IREP-like studies on their own)--July 25, 1980. NRR participants in IREP teams identified--August 7, 1980. Arrangements made for all four projects to start Sept. 1980.

TMI
ACTION PLAN SUMMARY

II . C . 2

2. TACS NUMBER: 0 4 0 0 1 3

3. REVISION DATE: MO 07 DAY 15 YR 80

4. TITLE: CONTINUATION OF INTERIM RELIABILITY EVALUATION PROGRAM (IREP)

5. PURPOSE AND SCOPE: Following completion of the initial IREP (II.C.1), IREP studies of all remaining operating reactors will be initiated. A Commission paper will be prepared which recommends the approach to be used for the continuation of the IREP program, as well as the breadth of coverage.

6. RESPONSIBILITY

INDIVIDUAL	PHONE NUMBER	ORGANIZATION (Division, branch)
Ashok C. Thadani	49-28090	DST/Reliability&Risk Assessment Branch

7. OTHERS INVOLVED

INDIVIDUAL	BRANCH
To be named later	

8. ORIGINAL SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
N/A	Commission paper on approach to be used in continuation of IREP	10/80
10/81	Completion of program	1983

9. CURRENT SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
	No change at present, but see Item 12 below.	

10. MAJOR ACCOMPLISHMENTS (List major accomplishments to date, including date accomplished)

N/A

11. CURRENT STATUS (Limit to 150 words)

N/A

12. ISSUES OR PROBLEMS (Limit to 50 words)

Delays have been encountered in the completion of the Pilot Study (CR-3) and in the initiation of the six-plant study, as identified in the summary for Action Item II.C.1. Since preparation of the Commission paper recommending the approach to be used in the continuation of the IREP program depends upon the experience obtained during the Pilot Study and the six-plant study and ongoing negotiations with the industry and technical societies, the Comission paper may be delayed somewhat.

(7-80)

(7-80) U.S. NUCLEAR REGULATORY [illegible]

TMI
ACTION PLAN SUMMARY

II, C, 4

2. TACS NUMBER: Not assigned

3. REVISION DATE: MO DAY YR N/A

4. TITLE: RELIABILITY ENGINEERING

5. PURPOSE AND SCOPE
NRR will develop criteria and procedures to apply reliability engineering practices to nuclear plant activities on a comprehensive and consistent basis. Ultimately, reliability assurance program requirements will be promulgated by SD in a new regulatory guide.

6. RESPONSIBILITY

INDIVIDUAL	PHONE NUMBER	ORGANIZATION (Division, branch)
Ashok C. Thadani	49-28090	DST/Reliability & Risk Assessment Branch

7. OTHERS INVOLVED

INDIVIDUAL	BRANCH
FY 1982 - Schedule dependent on availability of resources	

8. ORIGINAL SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
	See Item 7 above	

9. CURRENT SCHEDULE

INITIATION DATE	SIGNIFICANT MILESTONES	COMPLETION DATE
	N/A	

10. MAJOR ACCOMPLISHMENTS (List major accomplishments to date, including date accomplished)

N/A

11. CURRENT STATUS (Limit to 150 words)

N/A

12. ISSUES OR PROBLEMS (Limit to 50 words)
Initiation of this action item depends upon the availability of resources.

(7-80)