



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

#1

FEB 1 1983

MEMORANDUM FOR: Themis P. Speis, Director
Division of Safety Technology

FROM: Richard H. Vollmer, Director
Division of Engineering

SUBJECT: SCHEDULES FOR RESOLVING AND COMPLETING GENERIC ISSUES

In accordance with Mr. Denton's request regarding the above subject, please find attached the generic issue management control information and detailed milestone schedules for issues 4, 14, 29, A-15, B-6, B-48, B-64, C-7, C-12 and III.D.2.3.

Richard H. Vollmer, Director
Division of Engineering

cc: W. Minners
J. Knight
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GENERIC ISSUE MANAGEMENT CONTROL INFORMATION

Item Number: 4

Title: End-of-Life and Maintenance Criteria

Lead Office/Div/Br: NRR/DE/EQB

Other Office/Div/Br/: None

Task Manager: Unassigned

TAC Number: None

Work Authorization: None

Work Scope: Complete

Affected Documents: None

Technical Resolution: Criteria for maintenance and surveillance programs to ensure operability throughout the life of the plant for safety-related mechanical and electrical equipment located in harsh or mild environments is contained in Regulatory Guides 1.33 and 1.89, Rev. 1.

Status: All appropriate criteria have been developed and are in place. As part of the Equipment Qualification Program Plan the staff will oversee the implementation of 10CFR50.49 and associated Regulatory Guides as appropriate to operating plants. As part of this plan the staff will also selectively evaluate the extent to which safety-related mechanical equipment are qualified. Any decision to backfit requirements for mechanical equipment in operating plants (which is not included in the scope of 10CFR50.49) would not be made before mid 1985.

Generic Issue Management Control Information

Item Number: Issue 14
Title: PWR Pipe Cracks (Feedlines of Westinghouse and CE Plants)
Lead Office/Div/Br: NRR/DE/MTEB
Task Manager: Suren J. Bhatt
Tac Number: To be assigned
Work Authorization: Operating Plan: Appendix F Part A
Affected Documents: Issue SRP Section

Technical Resolution:

1. Draft new SRP Section regarding augmented inservice inspections of the PWR feedwater piping in the vicinity of the steam generator nozzles. (0.15 PSY)
2. Issue the SRP Section for comment.
3. Resolve comments and issue final SRP Section. (0.15 PSY)
4. Via the Division of Licensing, determine the current status of PWR's regarding this issue:
 - (a) Nature of mitigating measures taken (if any).
 - (b) Results of inservice inspections subsequent to short-term fixes.
 - (c) Plans for further actions (if any) (possibly meet with Owner's Group). (0.05 PSY)
5. On a case-by-case basis, establish future inspection schedules depending on mitigating actions taken, inspection results, and specific system geometry. (0.15 PSY)

Status: NUREG-0691 was published in September 1980. Due to lack of staff resources, an implementation plan has not been developed.

Milestone Schedule

	<u>Original</u>	<u>Current</u>	<u>Actual</u>
. Date information requested from Division			
. Date received from Division			
. Proposal Solicited			
. Proposal Evaluated and Accepted			
. Contract Schedule, if applicable			
. Testing Schedule, if applicable			
. Draft NUREG/CR report from contractor/consultant			
. Staff review of NUREG-0691 and other existing information.	6/1/83*		*NOTE
. Value Impact Statement prepared	8/1/83		Recent FW pipe cracking at Maine Yankee will require NRC review and will probably influence final resolution of this issue. It is anticipated that this may require several months.
. Final report prepared by Division	9/1/83		
. Final report forwarded to DST for processing	9/15/83		
. NRR Director Review completed	11/1/83		
. Review Package to CRGR	12/1/83		
. CRGR review completed	1/6/84		
. EDO approval	1/10/84		
. Federal Register Notice of Issuance of SRP for Public Comment	1/20/84		
. OMB Clearance, if applicable	2/1/84		
. Division review of public comments completed	5/1/84		
. NRR Director review completed	5/15/84		
. CRGR review completed	6/1/84		
. EDO approval	6/8/84		
. Federal Register Notice of Issuance of SRP	6/20/83		

Generic Issue Management Control Information

Item Number: Issue 29
Title: Bolting Degradation or Failures in Nuclear Power Plants
Lead Office/Div/Br: NRR/DE/MTEB
Other Offices/Div/Br: IL/DEP + ER/EGLB
Task Manager: C. D. Sellers
Work Authorization: Operating Plan: Appendix F Part C
Work Scope:

1. Development of the technical bases for bolting application requirements by MTEB through its contractor at BNL.
2. Review licensees' responses to IEB No. 82-02, "Degradation of Threaded Fasteners in the Reactor Coolant Pressure Boundary of PWR Plants."
3. Draft a staff technical position paper to be either incorporated into SRP (NUREG-0800) or a separate Branch Technical Position.
4. Develop an implementation plan for management consideration.

Affected Documents: SRP potentially

Technical Resolution: To be determined

Status: IEB No. 82-02 was issued in March, 1982. A technical assistance contract was made to BNL to develop the technical bases for a staff position paper. Work has been ongoing since the Spring of 1982. The contractor report is scheduled to be completed by May 15, 1983.

Problem/Resolution: Responses from licensees on current findings have not been as expected. There were problems with the contractor because of inavailability of funding which prevented BNL from negotiating a subcontract to perform two subtasks. These problems have been resolved and the work is proceeding according to a revised schedule.

Milestone Schedule

	<u>Original</u>	<u>Current</u>	<u>Actual</u>
. Date information requested from Division			
. Date received from Division			
. Proposal Solicited			
. Proposal Evaluated and Accepted	6/82		
. Contract Schedule, if applicable	5/15/83		
. Testing Schedule, if applicable			
. Draft NUREG/CR report from contractor/consultant	5/15/83		
. Staff review of draft NUREG/CR report	5/15/83		
. Value Impact Statement prepared	6/15/83		
. Final report prepared by Division	7/15/83		
. Final report forwarded to DST for processing	8/1/83		
. NRR Director Review completed	10/15/83		
. Review Package to CRGR	10/15/83		
. CRGR review completed	12/21/83		
. EDO approval	1/2/84		
. Federal Register Notice of Issuance of SRP for Public Comment	1/10/84		
. OMB Clearance, if applicable	2/20/84		
. Division review of public comments completed	5/20/84		
. NRR Director review completed	6/1/84		
. CRGR review completed	6/15/84		
. EDO approval	6/22/84		
. Federal Register Notice of Issuance of SRP	7/28/84		

Generic Issue Management Control Information

Item Number: A-15

Title: Primary Coolant System Decontamination and Steam
General Chemical Cleaning

Lead Office/Div/Br: NRR/DE/CMEB

Other Office/Div/Br: None

Task Manager: Frank J. Witt

TAC Number: None

Work Authorization:

Work Scope: Development of radiological and administrative
control criteria for use by the utilities and
staff as guidelines in conducting decontamination
guidelines.

Affected Documents: None

Technical Resolution: The technical resolution of this issue will be
contained in NUREG/CR-2963, Planning Guidance for
Nuclear Power Plant Decontamination. Based on informal
discussions with several utilities we anticipate de-
contamination operations to be conducted under 10 CFR
50.59, i.e., do not require prior staff approval. Any
decontamination that would fall outside 10 CFR 50.59 would
be nonroutine. Because this situation would be unusual
we do not consider this issue to be generic in nature.
A review of this type would be handled on an individual
basis.

Status: Draft report is being reviewed by CMEB; publication is
anticipated by 3/31/83.

Problem/Resolution: None

Generic Issue Management Control Information

Item Number: B-6

Title: Loads, Load Combinations, Stress Limits

Lead Office/Div/Br: ONRR/DE/MEB

Other Office/Div/Br: ONRR/DE/MTEB

Task Manager:

TAC Number:

Work Authorization: NRR Operating Plan

Work Scope: Develop the technical basis to decouple the SSE-LOCA load combination

Affected Documents: SRP 3.6.2; General Design Criteria 2 and 4
10 CFR 50.46

Technical Resolution: Based on our experience with previous attempts to decouple SSE and LOCA, we feel that the most viable solution is to eliminate this load combination for those locations where the leak-before-break hypothesis can be mechanistically justified.

Status: A CRGR package on the leak-before-break position is being extensively revised to incorporate comments by NRR Divisions.

Problem/Resolution: The implementation of the leak-before-break position involves a significant change in past design and staff review practices and also a significant change in either the wording or interpretation of GDC 2 and 4 and 10 CFR 50.46. The process of implementing this position will take considerably longer than a normal revision in licensing criteria since rulemaking is involved.

Milestone Schedule: Since the schedule for rulemaking is difficult to predict we have not prepared a detailed schedule. We have estimated that the process should be completed by the end of FY 1985.

Generic Issue Management Control Information

Item Number: B-48

Title: BWR Control Rod Drive Mechanism Failures

Lead Office/Div/Br: NRR/DE/MTEB

Task Manager: N/A

TAC Number: N/A

Work Authorization: N/A

Work Scope: N/A

Affected Documents: N/A

Technical Resolution: Technically resolved as reported in NUREG-0479. Remedial measures are being implemented by the utilities in accordance with the recommendations of General Electric and NUREG-0479. These changes are being made under 10 CFR 50.59, i.e., do not require staff review.

Status:

Problem/Resolution:

Generic Issue Management Control Information

<u>Item Number</u>	B-64
<u>Title</u>	Decommissioning of Reactors
<u>Lead Office/Div/Br</u>	Office of Nuclear Regulatory Research/Division of Engineering Technology/Chemical Engineering Branch
<u>Other Office/Div/Br</u>	Office of Nuclear Reactor Regulation/Division of Engineering/Chemical Engineering Branch
<u>Task Manager</u>	Donald Calkins
<u>Tac Number</u>	None
<u>Work Authorization</u>	None
<u>Work Scope</u>	Develop a general decommissioning policy, prepare the attendant changes in regulations, develop the detailed information needed for use in licensing decisions for decommissioning, and establish guidance for facilitation of decommissioning.
<u>Affected Documents</u>	<ol style="list-style-type: none">1. 10 CFR Part 30, 40, 50, 51, 70 and 72 amendments,2. Regulatory Guide 1.86 revision,3. New regulatory guides on financial assurance, termination surveys and format and content for nuclear reactor decommissioning plans,4. Standard review plan for decommissioning review.
<u>Technical Resolution</u>	Published rule changes on decommissioning, new regulatory guides and revision to R.G. 1.86, standard review plan on decommissioning.
<u>Status</u>	GEIS and draft rule changes September 1983.
<u>Problem/Resolution</u>	None

Milestone Examples

	<u>Original</u>	<u>Current</u>	<u>Actual</u>
. Format and Content for Decommissioning Plans (from Research)	2/84		
. Draft SRP	3/84		
. Staff review of draft SRP report	4/84		
. Value Impact Statement prepared	5/84		
. Final SRP prepared by Division	6/84		
. Final SRP forwarded to DST for processing	6/84		
. NRR Director Review completed	7/84		
. Review Package to CRGR	8/84		
. CRGR review completed	9/84		
. EDO approval	9/84		
. Federal Register Notice of Issuance of SRP for Public Comment	10/84		
. OMB Clearance, if applicable			
. Division review of public comments completed	1/85		
. NRR Director review completed	2/85		
. CRGR review completed	3/85		
. EDO approval	3/85		
. Federal Register Notice of Issuance of SRP	3/85		

Generic Issue Management Control Information

Item Number: C-7

Title: PWR System Piping

Lead Office/Div/Br: NRR/DE/MTEB

Task Manager: N/A

TAC Number: N/A

Work Authorization: N/A

Work Scope: N/A

Affected Documents: N/A

Technical Resolution: Based upon operating experience we have concluded that current ISI for the thin walled piping that is the subject of C-7 is adequate. No further action is required.

Status: Resolution of cracking in PWR Feedwater lines is being handled under issue 14.

Problem/Resolution: None

Issue Number 1-10

Title Primary System Vibration Assessment

Lead Office/Div/Br MEB
(Other Office/Div/Br) NA

Task Manager None assigned since issue is complete

Tac Number NA

Work Authorization

Work Scope Complete

Affected Documents None

Technical Resolution Current guidelines in NUREG-0800 (SRP) Section 3.9.2, combined with staff positions on loose parts monitoring (Regulatory Guide 1.133) provides sufficient basis for resolution of this issue. The SRP requirements include acceptance of a vendor's prototype plant results along with startup program which satisfies Regulatory Guide 1.20, Revision 2.

Status Complete

Problem/Resolution Although operating plants have experienced a number of vibration problems, these have been detected by inservice inspections and other visual examinations. The MEB has been solving these problems on a case-by-case basis.

Generic Issue Management Control Information

Item Number: III.D.2.3(1-4)

Title: Liquid Pathway Radiological Control (NRR)

Lead Office: NRR, DE, HGEB

Task Manager: R. Codell

Work Authorization:

Work Scope: Improve public radiation protection in the event of a nuclear power plant accident by improving the control of dissolved radionuclide released to the liquid pathway as a result of groundwater contamination, by assessing the fate of radionuclide both with and without pathway interdiction. Also consider the relative importance of airborne contamination of the liquid pathway.

Affected

- Documents:
- (1) Branch Technical Position on Liquid Pathways
 - (2) Update Environmental Standard Review Plans
 - (3) Issue 2 NUREGS on groundwater mitigation

Technical Resolution

Date

Indian Point Licensee requested to study Liquid Pathway at plant

June 1980

Staff begins review and independent study of Indian Point liquid pathway

May 1980 - December continues March 1982

Zion liquid pathway analysis completed

August 1981

Branch Technical Position on Liquid Pathway Analysis

Rough draft completed December 1981

Indian Point Probabilistic Safety Study Issued, Containing study requested by staff (Chapter 6.7).

Early 1982

Fermi 2 FES supplement published has first staff analysis of airborne liquid pathway.

March 1982

<u>Technical Resolution</u>	<u>Date</u>
Staff requests technical assistance from PNL on Indian Point groundwater modeling	April 29, 1982
Research issues contract with PNL to extend ANL technical assistance work on groundwater mitigation methods. (B2454)	May 1982
Technical Assistance from ANL on Slurry Wall Barriers	Draft Report completed May 1982
PNL issues draft report on Indian Point groundwater modeling.	July 29, 1982
Technical Assistance from ANL on other Groundwater Interdiction Methods	Draft Report completed September 1982
Staff completes written testimony on Indian Point liquid pathway.	January 24, 1983
Prepare User Need letter asking for Airborne Liquid Pathway Research	February 28, 1983
Staff installs Liquid Pathways computer code acquired from ORNL for use in liquid pathway reviews.	May 1, 1983
Publish ANL Mitigation Reports as NUREGS	May 31, 1983
About 20 near term OL's and OP completed in which liquid pathway issues were treated. (Results of these analyses are provided to AEB for use in the Environmental Statement section on accident effects.) No sites more than 1 order of magnitude worse than those considered in NUREG 0440 were discovered.	Continuing
Document in a NUREG, airborne liquid pathway analyses performed for Indian Point.	December 1983
Develop a new Environmental SRP for use in Class 9 Liquid Pathway evaluations. Since these ESRP's would not impose any additional burden on licensees but rather document current staff practice in implementing the interim Commission policy on Class 9 accidents (F.R. Vol. 45, No. 116, pp. 40101-40104) we would not plan for a formal CRGR review.	March 1984

Status

Liquid pathway analyses have been completed for Zion, Indian Point and about 20 near term OL's and operating plants. Technical Assistance and research contract are resolving problems of groundwater mitigation. Draft Branch Technical Position completed.

Problems/Resolutions

As of January 14, 1983, no staff resources have been devoted to complete a comprehensive Branch Technical Position, complete with the necessary computational tools (Manual and computer methods). We must devote manpower to wrap up this problem.