



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

NOV 8 1989

MEMORANDUM FOR: James M. Taylor, Acting Executive Director for Operations
FROM: Eric S. Beckjord, Director, Office of Nuclear Regulatory
Research
SUBJECT: GENERIC ISSUE MANAGEMENT CONTROL SYSTEM - FOURTH QUARTER
FY-89 UPDATE

Enclosed is the Fourth Quarter FY-89 update of the Generic Issue Management Control System (SIMCS) for your information. This report contains the following highlights:

- (1) Three USIs and two Generic Safety Issues (GSIs) were resolved during the reporting period:

A-17 (USI)	Systems Interaction
A-40 (USI)	Seismic Design Criteria
A-47 (USI)	Safety Implications of Control Systems
51 (MEDIUM)	Proposed Requirements for Improving Reliability of Open Cycle Service Water Systems
134 (HIGH)	Rule on Degree and Experience Requirements for Senior Operators

With the resolution of the above three USIs, there are no remaining USIs to be resolved.

- (2) One GSI was prioritized during the reporting period:

131 (MEDIUM)	Potential Seismic Interaction Involving the Moveable In-Core Flux Mapping System Used in Westinghouse Plants
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This issue was later integrated into the External Events IPE Program.

- (3) No new GSIs were identified for prioritization during the reporting period.

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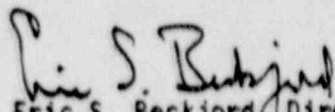
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Thirty-three GSIs remain to be resolved; of these, 19 are scheduled for resolution in FY-90 (see Table 4). Forty-three issues remain to be prioritized. We shall continue to vigorously pursue the resolution of all unresolved issues consistent with schedules stated in the enclosed report. I will continue to keep you informed of progress in resolving the issues as well as any major problems that might surface during the course of resolving these issues.


Eric S. Beckjord, Director
Office of Nuclear Regulatory Research

Enclosure:
Generic Issue Management
Control System

cc: See next page.

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cc: w/enclosure

RES

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 R. Bosnak, NL-007
 F. Cherny, NLS-217A
 F. Coffman, NLN-316A
 R. Emrit, NLS-169
 R. Frahm, NLS-169
 W. Houston, NL-007
 T. King, NLS-169
 K. Kniel, NLN-344
 A. Marchese, NL-007
 G. Marino, NL-007
 G. Mazetis, NLN-344
 W. Minners, NL-007
 B. Morris, NL-007
 A. Murphy, NLS-302
 J. Murphy, NLS-372
 J. Norberg, NL-007
 P. Morlan, NLN-344
 J. Persensky, NLN-316
 L. Riani, NL-007
 D. Ross, NL-007
 Z. Rosztoczy, NL-007
 T. Ryan, NLN-316
 A. Serpan, NLS-217C
 L. Shao, NL-007
 B. Sheron, NL-007
 L. Shotkin, NLN-353
 M. Silberberg, NLS-314
 T. Speis, NL-007
 D. Sullivan, NLS-217B
 D. Thatcher, NLS-217A
 J. Wilson, NLS-169

NRR

S. Bajwa, 11H22
 R. Colmar, 12D20
 P. Cota, 12D20
 R. Dudley, 13A2
 F. Gillespie, 12G18
 T. Kenyon, 11H3
 W. Long, 13H15
 W. Schwink, 12D20
 G. Vissing (2), 11H3
 T. Murley, 12G18

ARM

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 W. Usilton, P-612

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ENCLOSURE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM
FOURTH QUARTER FY-89 UPDATE

OFFICE OF NUCLEAR REGULATORY RESEARCH
OCTOBER 1989

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GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

DESCRIPTION

The Generic Issue Management Control System (GIMCS) provides appropriate information necessary to manage the resolution of safety-related as well as non-safety-related generic issues. For the purpose of this management control system, resolved is defined as the point where the staff's final resolution product is issued. For safety-related issues, this generally occurs when the resolution has been incorporated into one or more of the following documents:

- (a) Commission Policy Statement/Orders
- (b) NRC Regulations
- (c) Standard Review Plan (SRP)
- (d) Regulatory Guide
- (e) Generic Letter

GIMCS is part of an integrated system of reports and procedures that is designed to manage generic safety issues through the stages of prioritization and resolution (development of new criteria, review and approval, public comments, and incorporation into the SRP, as appropriate). NUREG-0933 provides an evaluation for a recommended priority listing based on the potential safety significance and cost of implementation for each issue. The procedure and criteria for adding new generic issues to the system are outlined in RES Office Letter No. 1. (Prior to the NRC reorganization of April 12, 1987, NRR Office Letter No. 40 was used for identifying new issues.) Guidance for resolving generic issues is provided in RES Office Letter No. 3.

GIMCS provides the proposed schedules for managing and controlling the resolution of the issues on the prioritized listing. These include: (1) issues that are ranked HIGH-priority; (2) issues that are ranked MEDIUM-priority; (3) issues for which possible resolutions have been identified for evaluation; (4) issues for which technical resolutions are available (as documented by memorandum, analysis, NUREG, etc.); and (5) other issues designated to receive resources for resolution. Issues ranked as either "LOW" or "DROP" are not allocated resources for resolution and, therefore, are not tracked in GIMCS.

Some prioritized generic issues may not have resources allocated for resolution; these issues are listed in GIMCS as inactive issues. Generally, these will be MEDIUM-priority issues that have no safety deficiency demanding high-priority attention, but have potential for safety improvements or reduction in uncertainty of analysis that may be substantial and worthwhile. Efforts for the resolution of these issues will be planned over the next several years, but on a basis that will not interfere with work on the resolution of HIGH-priority generic issues or other high-priority work. Thus, some (MEDIUM-priority) generic issues may be inactive until such time as resources become available to resolve them. The detailed schedule for resolving generic issues is monitored by GIMCS.

LEGEND

AIF	-	Atomic Industrial Forum
ANPRM	-	Advance Notice of Proposed Rulemaking
BNL	-	Brookhaven National Laboratory
BTP	-	Branch Technical Position
DTR	-	Draft Technical Resolution
EPRI	-	Electric Power Research Institute
FRN	-	Federal Register Notice
FTR	-	Final Technical Resolution
GL	-	Generic Letter
GSI	-	Generic Safety Issue
H	-	HIGH-Priority GSI
IEB	-	Inspection & Enforcement Bulletin
INEL	-	Idaho Nuclear Engineering Laboratory
LI	-	Licensing Issue
M	-	MEDIUM-Priority GSI
NR	-	Nearly-Resolved GSI
ORNL	-	Oak Ridge National Laboratory
PNL	-	Pacific Northwest Laboratories
PRA	-	Probabilistic Risk Assessment
RAI	-	Request for Additional Information
R.G.	-	Regulatory Guide
RI	-	Regulatory Impact
S	-	Subsumed in Another (Issue No.)
SOW	-	Statement of Work
SRP	-	Standard Review Plan
STS	-	Standard Technical Specification
T/A	-	Technical Assistance
TAP	-	Task Action Plan
TBD	-	To be Determined
TI	-	Temporary Instruction
TS	-	Technical Specification
USI	-	Unresolved Safety Issue

Management and control indicators used in GIMCS are defined as follows:

1. Issue No. - Generic Issue Number
2. Title - Generic Issue Title
3. Identification Date - Date the issue was identified
4. Prioritization Date - The date that the prioritization evaluation was approved by the RES Director
5. Type - Generic Safety (GS1), Licensing (LI), or Regulatory Impact (RI).
6. Priority - High (H) or Medium (M)
7. Task Manager - Name of assigned individual responsible for resolution
8. Office/Div/Br - The Office, Division, and Branch of the Task Manager who has lead responsibility for resolving the issue.
9. Action Level
 - Active - Technical assistance funds appropriated for resolution and/or Task Manager actively pursuing resolution.
 - Inactive - No technical assistance funds appropriated for resolution, Task Manager assigned to more important work, or no Task Manager assigned
 - Resolved - All necessary work has been completed and no additional resources will be expended
10. Status - Coded summary as follows: NR (Nearly-Resolved); 3A (Resolved with requirements); 3B (Resolved with no requirements); 5 (Licensing or Regulatory Impact issue that should be assigned resources for completion)
11. TAC Number - Task Action Control (TAC) number assigned to the issue
12. Resolution Date - Scheduled resolution date for the issue
13. Work Authorization - Who or what authorized work to be done on the issue

14. FIN - Financial identification number assigned to contract (if any) for technical assistance
15. Contractor - Contractor name
16. Contract Title - Contract Title (if contract issued)
17. Work Scope - Describes briefly the work necessary to technically resolve and complete the generic issue
18. Status - Describes current status of work
19. Affected Documents - Identifies documents into which the technical resolution will be incorporated
20. Problem/Resolution - Identifies problem areas and describes what actions are necessary to resolve them
21. Milestones - Selected significant milestones: the "original" scheduled dates reflect the original Task Action Plan; changes in the original scheduled dates are listed under "Current"; and actual completion dates are listed under "Actual"

TABLE 1

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION,
ISSUES RESOLVED AND ISSUES INTEGRATED
FY-83 THROUGH FY-89 (4TH QUARTER)

ISSUE TYPE	FY-83				FY-84				FY-85			
	GIs Start +	New Issues -	GIs Resolved =	End	GIs Start +	New Issues -	GIs Resolved =	End	GIs Start +	New Issues -	GIs Resolved =	End
USI	16	0	2	14	14	0	2	12	12	0	0	12
HIGH	24	2	0	26	26	1	1	26	22*	41	6	57
MEDIUM	31	2	0	33	33	4	3	34	28*	1	10	19
NR	20	3	4	19	19	5	9	15	15	11	7	19
TOTAL:	91	7	6	92	92	10	15	87	77	53	23	107

ISSUE TYPE	FY-86				ISSUE TYPE	FY-87				
	GIs Start +	New Issues -	GIs Resolved =	End		GIs Start +	New Issues -	GIs Resolved -	GIs Integrated =	End
USI	12	0	1	11	USI	11	0	2	0	9
HIGH	57	(16)*	3	38	HIGH	38	4	3	7	32
MEDIUM	19	7	2	24	MEDIUM	24	1	4	5	16
NR	19	(3)*	3	13	NR	13	0	1	1	11
TOTAL:	107	(12)*	9	86	TOTAL:	86	5	10	13	68

*Extensive revisions to Human Factors issues resulted in priority changes.

TABLE 1 (Continued)

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION,
 ISSUES RESOLVED AND ISSUES INTEGRATED
 FY-83 THROUGH 4TH QUARTER FY-89

FY-88						FY-89					
ISSUE TYPE	GIs Start	+ New Issues	- GIs Resolved	- GIs Integrated	= End	ISSUE TYPE	GIs Start	+ New Issues	- GIs Resolved	- GIs Integrated	= End
USI	9	0	5	0	4	USI	4	0	4	0	0
HIGH	32	1	6	3	24	HIGH	24	1	9	0	16
MEDIUM	16	2	2	3	13	MEDIUM	13	1	3	1	10
NR	11	1	3	0	9	NR	9	0	2	0	7
TOTAL:	68	4	16	6	50	TOTAL:	50	2	18	1	33

Table 1A

SUMMARY OF GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION,
ISSUES RESOLVED, AND ISSUES INTEGRATED

Cumulative Totals
FY-83 Through FY-89 (4th Quarter)

ISSUE TYPE	GIs Start	+ New Issues	= Sub-Total	- GIs Resolved	- GIs Integrated [▲]	= Remainder
USI	16	0	16	16	0	0
HIGH	24	30*	54	28	10	16
MEDIUM	31	12	43	24	9	10
NR	20	17*	37	29	1	7
<u>TOTAL:</u>	<u>91</u>	<u>59</u>	<u>150</u>	<u>97</u>	<u>20</u>	<u>33</u>

* Extensive revisions to Human Factors issues resulted in priority changes

▲ GIs Integrated

FY-87: Issues 48, 49, and A-30 into Issue 128
Total (13) Issue 65 into Issue 23
 Issues 68; 122.1.a; 122.1.b; 122.1.c; and 125.II.1.b into Issue 124
 Issues I.B.1.1(6) and I.B.1.1(7) into Issue 75
 Issue B-6 into Issue 119.1
 Issue 67.7 into 135

FY-88:
Total (6) Issue 77 into A-17
 Issues I.D.5(5), II.B.5(1), II.B.5(2), II.B.5(3), and II.F.5 were integrated into the
 Research Activities Program and were reclassified as Licensing Issues.

FY-89:
Total (1) Issue 131 was integrated into the External Events IPE Program.

TABLE 2

NUMBER OF GENERIC SAFETY ISSUES RESOLVED
AND SCHEDULED FOR RESOLUTION
(Through 4th Quarter FY-89)

ISSUE PRIORITY	<u>RESOLVED</u>							<u>SCHEDULED FOR RESOLUTION</u>				<u>Cumulative Total</u>
	<u>FY-83</u>	<u>FY-84</u>	<u>FY-85</u>	<u>FY-86</u>	<u>FY-87</u>	<u>FY-88</u>	<u>FY-89</u>	<u>FY-90</u>	<u>FY-91</u>	<u>FY-92</u>	<u>TBD</u>	
USI	2	2	0	1	2	5	4	0	0	0	0	16
HIGH	0	1	6	3	3	6	9	9	3	3	1	44
MEDIUM	0	3	10	2	4	2	3	5	2	2	1	34
NR	4	9	7	3	1	3	2	5	1	0	1	36
<u>Total:</u>	<u>6</u>	<u>15</u>	<u>23</u>	<u>9</u>	<u>10</u>	<u>16</u>	<u>18</u>	<u>19</u>	<u>6</u>	<u>5</u>	<u>3</u>	<u>130</u>

TABLE 3

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-83</u>					
A-11	Reactor Vessel Materials Toughness	USI	GL 82-26	01/79	10/82
A-16	Steam Effects on BWR Core Spray Distribution	NR	MPA D-12	NRR-OP FY83	03/29/83
A-39	Determination of Safety Relief Valve (SRV) Pool Dynamic Loads and Temperature Limits for BWR Containment	USI	SRP Revision	01/79	10/82
B-53	Load Break Switch	NR	SRP Revision	NRR-OP FY83	07/28/83
II.E.5.1	(B&W) Design Evaluation	NR	No Req.	NRR-OP FY83	03/21/83
IV.C.1	Extend Lessons Learned From TMI to Other NRC Programs	NR	No Req.	NRR-OP FY83	04/15/83
<u>FY-84</u>					
12	BWR Jet Pump Integrity	Medium	No Req.	NRR-OP FY83	09/25/84
20	Effects of Electromagnetic Pulse on Nuclear Plant Systems	NR	NUREG/ CR-3069	NRR-OP FY83	11/15/83
40	Safety Concerns Associated With Breaks in the BWR Scram System	NR	MPA B-65	07/18/83	12/27/83
45	Inoperability of Instruments Due to Extreme Cold Weather	NR	SRP Revision	09/08/83	03/23/84

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
<u>FY-84 (cont'd)</u>					
50	Reactor Vessel Level Instrumentation in BWRs	NR	MPA F-26	07/28/83	09/06/84
69	Make-Up Nozzle Cracking in B&W Plants	NR	MPA B-43	12/06/83	09/27/84
A-1	Water Hammer	USI	SRP Revision	01/79	03/15/84
A-12	Steam Generator and Reactor Coolant Pump Supports	USI	SRP Revision	01/79	10/83
B-10	Behavior of BWR Mark III Containments	High	SRP Revision	NRR-OP FY83	09/10/84
B-26	Structural Integrity of Containment Penetrations	Medium	No Req.	NRR-OP FY83	09/27/84
B-60	Loose Parts Monitoring Systems (LPMS)	NR	GL	NRR-OP FY83	09/25/84
I.A.1.4	Long-Term Upgrading of Operating Personnel	NR	New Rule	NRR-OP FY83	01/01/84
II.A.1	Siting Policy Reformulation	Medium	No Req.	NRR-OP FY83	09/20/84
II.E.5.2	(B&W) Reactor Transient Response Task Force	NR	NUREG-0667	NRR-OP FY83	09/28/84
III.D.2.5	Offsite Dose Calculation Manual	NR	NUREG/ CR-3332	NRR-OP FY83	01/17/84

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-85</u>					
22	Inadvertent Boron Dilution Events	NR	GL 85-05	11/05/82	10/15/84
A-41	Long Term Seismic Program	Medium	No Req.	NRR-OP FY83	10/10/84
B-19	Thermal-Hydraulic Stability	NR	GL	01/03/85	05/21/85
B-54	Ice Condenser Containments	Medium	NUREG/ CR-4001	NRR-OP FY83	10/22/84
B-58	Passive Mechanical Failures	Medium	No Req.	NRR-OP FY83	07/09/85
C-11	Assessment of Failure and Reliability of Pumps and Valves	Medium	No Req.	NRR-OP FY83	07/09/85
I.A.2.2	Training and Qualifications of Operating Personnel	High	Policy Statement No Req.	NRR-OP FY83	06/24/85
I.A.2.6(4)	Operator Workshops	Medium	No Req.	NRR-OP FY83	09/25/85
I.A.2.7	Accreditation of Training Institutions	Medium	Policy Statement No Req.	NRR-OP FY83	06/24/85
I.A.3.4	Licensing of Additional Operations Personnel	Medium	Policy Statement No Req.	NRR-OP FY83	02/12/85
I.G.2	Scope of Test Program	Medium	No Req.	NRR-OP FY83	10/05/84

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
<u>FY-85 (cont'd)</u>					
II.B.6	Risk Reduction For Operating Reactors at Sites With High Population Densities	High	No Req.	NRR-OP FY83	09/25/85
II.B.8	Rulemaking Proceedings on Degraded Core Accidents (a) Hydrogen Rule (b) Severe Accidents	High	- Rule Policy Statement	- NRR-OP FY83 NRR-OP FY83	- 07/19/85 08/12/85
II.C.1	Interim Reliability Evaluation Program	High	No Req.	NRR-OP FY83	07/09/85
II.C.2	Continuation of Interim Reliability Evaluation Program	High	No Req.	NRR-OP FY83	09/25/85
II.E.2.2	Research on Small Break LOCAs and Anomalous Transients	Medium	No Req.	NRR-OP FY83	07/25/85
III.A.1.3(2)	Maintain Supplies of Thyroid-Blocking Agent For Public	NR	Policy Statement	NRR-OP FY83	08/15/85
III.A.3.4	Nuclear Data Link	Medium	No Req.	NRR-OP FY83	06/26/85
III.D.2.3(1)	Develop Procedures to Discriminate Between Sites/Plants	NR	ESRP Revision	NRR-OP FY83	08/28/85
III.D.2.3(2)	Discriminate Between Sites and Plants that Require Consideration of Liquid Pathway Interdiction Techniques	NR	ESRP Revision	NRR-OP FY83	08/28/85
III.D.2.3(3)	Establish Feasible Method of Pathway Interdiction	NR	ESRP Revision	NRR-OP FY83	08/28/85

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-85 (cont'd)</u>					
III.D.2.3(4)	Prepare a Summary Assessment	NR	ESRP Revision	NRR-OP FY83	08/28/85
IV.E.5	Assess Currently Operating Plants	High	No Req.	NRR-OP FY83	09/25/85
<u>FY-86</u>					
3	Setpoint Drift in Instrumentation	NR	Reg Guide Rev. No Req.	NRR-OP FY83	05/19/86
14	PWR Pipe Cracks	NR	No Req.	NRR-OP FY83	10/04/85
36	Loss of Service Water	NR	SRP Revision No Req.	02/15/84	05/13/86
61	SRV Discharge Line Break Inside the Wetwell Airspace of BWR Mark I and Mark II Containments	Medium	No Req.	11/30/83	08/08/86
A-43	Containment Emergency Sump Performance	USI	SRP Revision	01/79	10/85
I.C.9	Long-Term Plan for Upgrading of Procedures	Medium	No Req.	NRR-OP FY83	06/07/85
III.D.3.1	Radiation Protection Plans	High	No Req.	NRR-OP FY83	05/19/86
HF1.2	Engineering Expertise on Shift	High	No Req.	10/01/84	10/28/85
HF1.3	Guidance on Limits and Conditions of Shift Work	High	No Req.	10/01/84	06/26/86

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-87</u>					
91	Main Crankshaft Failures in Transamerica Delaval Diesel Generators	NR	NUREG-1216 (No Req.)	07/85	09/87
A-46	Seismic Qualification of Equipment in Operating Plants	USI	GL 87-02 (Req.)	02/81	02/87
A-49	Pressurized Thermal Shock	USI	Rule/Reg. Guide 1.154 (Req.)	12/81	02/87
I.A.2.6(1)	Long-Term Upgrading of Training and Qualifications - Revise Reg. Guide 1.8	High	Reg. Guide 1.8 (Req.)	10/82	05/87
I.A.3.3	Requirement for Operator Fitness	High	No Req.	12/82	01/87
I.A.4.2(1)	Research on Training Simulators	High	Reg. Guide 1.149, Rev.1 (Req.)	10/84	05/87
I.B.1.1	<u>Organization and Management Long-Term Improvements</u>	-	-	-	-
I.B.1.1(1)	Prepare Draft Criteria	Medium	No Req.	12/82	01/87
I.B.1.1(2)	Prepare Commission Paper	Medium	No Req.	12/82	01/87
I.B.1.1(3)	Issue Requirements for the Upgrading of Management and Technical Resources	Medium	No Req.	12/82	01/87

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-87 (cont'd)</u>					
I.B.1.1(4)	Review Responses to Determine Acceptability	Medium	No Req.	12/82	01/87
<u>FY-88</u>					
86	Long Range Plan for Dealing with Stress Corrosion Cracking in BWR Piping	NR	NUREG-0313, Rev. 2, GL 88-01 (Req.)	10/84	01/88
93	Steam Binding of Auxiliary Feedwater Pumps	High	GL 88-03 (No Req.)	10/84	02/88
I.D.4	Control Room Design Standard	Medium	No Req.	NRR-OP FY83	03/88
II.E.4.3	(Containment) Integrity Check	High	NUREG-1273 (No Req.)	NRR-OP FY83	03/88
B-5	Ductility of Two-Way Slabs and Shells and Buckling Behavior of Steel Containments	Medium	No Req.	NRR OP FY83	04/88
HF8	Maintenance and Surveillance Program	High	Policy Statement (No Req.)	03/85	05/88
I.A.4.2(4)	Review Simulators for Conformance	High	Rule (Req.)	NRR OP FY83	05/88
A-44	Station Blackout	USI	Rule/Reg. Guide 1.155 (Req.)	01/79	06/88

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
<u>FY-88 (Cont'd)</u>					
43	Reliability of Air Systems	High	GL 88-14 (Req.)	12/87	09/88
66	Steam Generator Requirements	NR	NUREG-0844 (No Req.)	11/83	09/88
102	Human Error in Events Involving Wrong Unit or Wrong Train	NR	NUREG-1192 (No Req.)	02/85	09/88
125.II.7	Reevaluate Provision to Automatically Isolate Feedwater from Steam Generator During a Line Break	High	NUREG-1332 (No Req.)	09/86	09/88
A-3,4,5	Steam Generator Tube Integrity	USI	NUREG-0844 (No Req.)	01/79	09/88
A-45	Shutdown Decay Heat Removal Requirements	USI	NUREG-1289 (No Req.)	02/81	09/88
<u>FY-89</u>					
51	Proposed Requirements for Improving Reliability of Open Cycle Service Water Systems	Medium	GL 89-13 (Req.)	06/83	08/89
82	Beyond Design Bases Accidents in Spent Fuel Pools	Medium	NUREG-1353 (No Req.)	12/07/83	04/89
99	RCS/RHR Suction Line Interlocks on PWRs	High	GL 88-17 (Req.)	08/85	11/88
101	BWR Water Level Redundancy	High	GL 89-11 (Req.)	05/06/85	06/89

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-89 (Cont'd)</u>					
115	Enhancement of the Reliability of Westinghouse Solid State Protection System	High	NUREG-1341 (No Req.)	07/07/86	04/89
122.2	Initiating Feed-and-Bleed	High	No Req.	01/86	04/89
124	Auxiliary Feedwater System Reliability	NR	2 Plant-Specific Backfits (Req.)	02/86	01/89
125.I.3	SPDS Availability	NR	GL 89-06 (Req.)	05/06/88	04/89
134	Rule on Degree and Experience Requirements for Senior Operators	High	Policy Statement (No Req.)	01/86	08/89
A-17	Systems Interaction	USI	NUREG-1174 (No Req.)	01/79	08/89
A-40	Seismic Design Criteria	USI	SRP Revisions (Req.)	01/79	09/89
A-47	Safety Implications of Control Systems	USI	GL 89-19 (Req.)	02/81	08/89
A-48	Hydrogen Control Measures and Effects of Hydrogen Burns on Safety Equipment	USI	Rules (Req.)	02/81	04/89
HF1.1	Shift Staffing	High	Reg. Guide 1.114, Rev. 2 (Req.)	10/01/84	05/89

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

<u>Issue Number</u>	<u>Title</u>	<u>Priority</u>	<u>Resolution Product</u>	<u>Date Approved for Resolution</u>	<u>Date Resolved</u>
<u>FY-89 (Cont'd)</u>					
HF4.1	Inspection Procedure for Upgraded Emergency Operating Procedures	High	IN 86-64 (No Req.)	10/01/84	10/88
I.F.1	Expand QA List	High	No Req.	NRR-OP FY83	01/89
II.C.4	Reliability Engineering	High	No Req.	NRR OP FY83	10/88
II.E.6.1	Test Adequacy Study	Medium	GL 89-10 (Req.)	NRR-OP FY83	06/89

TABLE 4

33 GSIs SCHEDULED FOR RESOLUTION (BY FISCAL YEAR)

PRIORITY	FY-90	FY-91	FY-92	TBD	TOTAL
HIGH	29 87 94 128 130 B-56 C-8 HF4.4 HF5.1	23 121 HF5.2	105 113 II.H.2	15	16
MEDIUM	70 79 A-29 B-55 3-61	106 135	57 B-17	I.D.3	10
NR	83 84 103 I.D.5(3) B-64	75	-	II.J.4.1	7
TOTAL:	19	6	5	3	33

Table 4A

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/Branch	Priority	Date Approved for Resolution	Resolution Date at end of FY-88	Current Resolution Date
15	Radiation Effects on Reactor Vessel Supports	RES/DSIR/EIB	H	02/89	N/A	TBD
23	Reactor Coolant Pump Seal Failures	RES/DSIR/EIB	H	NRR-OP FY83	11/90	07/91
29	Bolting Degradation or Failures in Nuclear Power Plants	RES/DSIR/EIB	H	NRR-OP FY83	04/90	05/90
87	Failure of HPCI Steam Line Without Isolation	RES/DSIR/RPSI	H	09/26/85	03/91	11/89
94	Additional Low-Temperature Overpressure Protection For Light Water Reactors	RES/DSIR/RPSI	H	07/23/85	04/89	11/89
105	Interfacing Systems LOCA at LWRs	RES/DSIR/EIB	H	06/11/85	12/89	10/91
113	Dynamic Qualification Testing of Large Bore Hydraulic Snubbers	RES/DSIR/EIB	H	07/02/87	09/91	01/92
121	Hydrogen Control for Large, Dry PWR Containments	RES/DSIR	H	09/26/85	06/89	02/91
128	Electrical Power Reliability	RES/DSIR/EIB	H	11/28/86	03/90	03/90
130	Essential Service Water Pump Failures at Multiplant Sites	RES/DSIR/RPSI	H	03/10/87	06/89	03/90
B-56	Diesel Reliability	RES/DSIR/RPSI	H	NRR-OP FY83	04/89	02/90
C-8	Main Steam Line Isolation Valve Leakage Control Systems	RES/DSIR/RPSI	H	NRR-OP FY83	04/89	10/89

Table 4A (Continued)

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/Branch	Priority	Date Approved for Resolution	Resolution Date at end of FY-88	Current Resolution Date
II.H.2	Obtain Technical Data on the Conditions Inside the TMI-2 Containment Structure	RES/DSR/AEB	H	NRR-OP FY83	12/89	12/91
HF4.4	Guidelines For Upgrading Other Procedures	RES/DSR/HFB	H	10/01/84	06/89	11/89
HF5.1	Local Control Stations	RES/DSR/HFB	H	10/01/84	09/90	09/90
HF5.2	Review Criteria for Human Factors Aspects of Advanced Controls and Instrumentation	RES/DSR/HFB	H	10/01/84	05/91	05/91
57	Effects of Fire Protection System Actuation on Safety-Related Equipment	RES/DSIR/RPSI	M	06/08/88	TBD	07/92
70	PORV and Block Valve Reliability	RES/DSIR/EIB	M	05/14/84	04/89	11/89
79	Unanalyzed Reactor Vessel Thermal Stress During Natural Convection Cooldown	RES/DSIR/EIB	M	07/25/83	10/88	01/90
106	Piping and Use of Highly Combustible Gases in Vital Areas	RES/DSIR/RPSI	M	11/03/87	03/90	05/91
135	Steam Generator and Steam Line Overfill	RES/DSIR/EIB	M	05/27/86	11/90	11/90
A-29	Nuclear Power Plant Design for the Reduction of Vulnerability to Industrial Sabotage	RES/DSIR/RPSI	M	NRR-OP FY83	02/89	10/89

Table 4A (Continued)

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/Branch	Priority	Date Approved for Resolution	Resolution Date at end of FY-88	Current Resolution Date
B-17	Criteria for Safety-Related Operator Actions	RES/DSR/HFB	M	03/22/82	TBD	01/92
B-55	Improve Reliability of Target Rock Safety Relief Valves	RES/DSIR/EIB	M	NRR-OP	03/89	05/90
B-61	Allowable ECCS Equipment Outage Periods	RES/DSR/PRAB	M	NRR-OP	04/90	04/90
I.D.3	Safety System Status Monitoring	RES/DE/EMEB	M	NRR-OP FY83	TBD	TBD
75	Generic Implications of ATWS Events at the Salem Nuclear Plant	RES/DRA/ARGIB	NR	10/19/83	04/90	11/90
83	Control Room Habitability	RES/DSIR/SAIB	NR	08/83	04/90	03/90
84	CE PORVs	RES/DSIR/RPSI	NR	02/27/85	08/89	02/90
103	Design For Probable Maximum Precipitation	RES/DE/WMB	NR	09/04/85	04/89	10/89
B-64	Decommissioning of Nuclear Reactors	NMSS/LLWM/LLRB	NR	NRR-OP FY84	09/89	03/90
I.D.5(3)	On-Line Reactor Surveillance Systems	RES/DE/EMEB	NR	NRR-OP FY83	03/89	12/89
II.J.4.1	Revise Deficiency Report Requirements	AEOD/DSP/ROAB	NR	NRR-OP FY83	02/89	TBD

Total: 33

TABLE 5

NUMBER OF GENERIC ISSUES PRIORITIZED IN FY-83 THROUGH THE THIRD QUARTER OF FY-89

<u>Issue Type</u>	<u>FY-83</u>	<u>FY-84</u>	<u>FY-85</u>	<u>FY-86</u>	<u>FY-87</u>	<u>FY-88</u>	<u>FY-89</u>	<u>Total</u>
Issues Identified To Be Prioritized	56	19	54	45*	6	3	6	189
Issues Identified To Be Reprioritized	19	2	0	1	1	2	0	25
<u>Total:</u>	<u>75</u>	<u>21</u>	<u>54</u>	<u>46</u>	<u>7</u>	<u>5</u>	<u>6</u>	<u>214</u>
<u>New Issues (Entered into GIMCS)</u>								
High	2	1	41	6	4	1	1	56
Medium	2	4	1	1	1	2	1	11
Nearly Resolved	3	5	6	1	0	1	0	16
<u>Subtotal:</u>	<u>7</u>	<u>10</u>	<u>48</u>	<u>8</u>	<u>5</u>	<u>4</u>	<u>2</u>	<u>83</u>
Resolved	4	0	1	0	0	1	1	7
Low	1	4	0	2	1	0	0	8
Drop	1	4	4	6	13	9	2	39
Regulatory Impact/LI	0	0	4	6	0	2	1	13
Subsumed	8	2	3	6	0	1	0	20
<u>Total Issues Prioritized</u>	<u>21</u>	<u>20</u>	<u>60</u>	<u>28</u>	<u>19</u>	<u>17</u>	<u>6</u>	<u>170</u>
Remaining Issues To Be Prioritized or Reprioritized	+54	+1	-6	+18	-12	-12	0	44

*Extensive revisions to Human Factors issues resulted in priority changes.

TABLE 6

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-83</u>				
31	Natural Circulation Cooldown	09/82	07/83	S(I.C.1)
32	Flow Blockage in Essential Equipment Caused by Corbicula	09/82	05/83	S(51)
33	Correcting Atmospheric Dump Valve Opening Upon Loss of Integrated Control System Power	09/82	08/82	S(A-47)
39	Potential for Unacceptable Interaction Between the CRD System and Non-Essential Control Air System	09/82	07/82	S(25)
40	Safety Concerns Associated with Pipe Breaks in the BWR Scram System	09/82	07/83	NR
41	BWR Scram Discharge Volume Systems	09/82	07/82	RESOLVED
42	Combination Primary/Secondary System LOCA	09/82	04/83	S(18)
45	Inoperability of Instrumentation Due to Extreme Cold Weather	09/82	09/83	NR
46	Loss of 125 Volt DC Bus	09/82	02/83	S(76)
47	Loss of Off-Site Power	09/82	04/83	RESOLVED
50	Reactor Vessel Level Instrumentation in BWRs	09/82	07/83	NR
51	Proposed Requirements for Improving the Reliability of Open Cycle Service Water Systems	09/82	06/83	MEDIUM
52	SSW Flow Blockage by Blue Mussels	09/82	05/83	S(51)
56	Abnormal Transient Operating Guidelines as Applied to a Steam Generator Overfill Event	09/82	02/83	S(A-45/I.D.1)
58	Inadvertent Containment Flooding	09/82	08/83	DROP
64	Identification of Protection System Instrument Sensing Lines	10/82	02/83	RESOLVED
65	Probability of Core-Melt Due to Component Cool- ing Water System Failures	02/83	07/83	HIGH
77	Flooding of Safety Equipment Compartments by Back-Flow Through Floor Drains	06/83	09/83	HIGH
79	Unanalyzed Reactor Vessel Thermal Stress During Natural Convection Cooldown	06/83	07/83	MEDIUM
D-1	Advisability of a Seismic Scram	09/82	06/83	LOW
IV.E.2	Plan for Early Resolution of Safety Issues	09/82	06/83	RESOLVED

TABLE 6 (Continued)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-84</u>				
34	RCS Leak	09/82	02/84	DROP
35	Degradation of Internal Appurtenances in LWRs	09/82	02/84	LOW
36	Loss of Service Water	09/82	02/84	NR
43	Contamination of Instrument Air Lines	09/82	11/83	DROP
44	Failure of Saltwater Cooling System	09/82	10/83	S(43)
48	LCO for Class IE Vital Instrument Buses in Operating Reactors	09/82	10/83	NR
49	Interlocks and LOCs for Redundant Class IE Tie Breakers	09/82	07/84	MEDIUM
53	Consequences of a Postulated Blow Blockage in Incident in a BWR	09/82	09/84	DROP
60	Lamellar Tearing of Reactor Systems Structural Supports	10/82	11/83	S(A-12)
61	SRV Line Break Inside the BWR Wetwell Airspace of Mark I and II Containments	10/82	11/83	MEDIUM
66	Steam Generator Requirements	06/83	11/83	NR
68	Postulated Loss of Auxiliary Feedwater System Resulting from Turbine-Driven Auxiliary Feedwater Pump Steam Supply Line Rupture	06/83	04/84	HIGH
69	Make-up Nozzle Cracking in B&W Plants	06/83	12/83	NR
70	PORV and Block Valve Reliability	06/83	05/84	MEDIUM
75	Generic Implications of ATWS Events at the Salem Nuclear Plants	06/83	10/83	NR
80	Pipe Break Effects on Control Rod Drive Hydraul- lic Lines in the Drywells of BWR Mark I and II	06/83	01/84	LOW
82	Beyond Design Basis Accidents in Spent Fuel Pools	08/83	12/83	MEDIUM
90	Technical Specifications for Anticipatory Trips	02/84	08/84	LOW
92	Fuel Crumbling During LOCA	04/83	07/84	LOW
B-65	Iodine Spiking	09/82	06/84	DROP

TABLE 6 (Continued)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-85</u>				
37	Steam Generator Overfill and Combined Primary and Secondary Blowdown	09/82	05/85	S(USI A-47)
54	Valve Operator-Related Events Occurring During 1978, 1979, and 1980	09/82	06/85	S(II.E.6.1)
55	Failure of IE Safety-Related Switchgear Circuit Breakers	09/82	03/85	DROP
59	Technical Specification Requirements for Plant Shutdown	10/82	02/85	RI
67	Steam Generator Staff Actions	06/83	03/85	MEDIUM
81	Potential Safety Problems Associated With Locked Doors and Barriers in Nuclear Power Plants	11/83	10/84	DROP
83	Control Room Habitability	11/83	06/84	NR
84	CE PORVs	11/83	02/85	NR
85	Reliability of Vacuum Breakers Connected to Steam Discharge Lines Inside BWR Containments	11/83	07/85	DROP
86	NRC Pipe Cracking Review Group Study	12/83	10/84	NR
87	Failure of HPCI Steam Line Without Isolation	01/84	09/85	HIGH
91	Transamerica Delaval Emergency Diesel Generator Main Crankshaft Failure	03/84	07/85	NR
93	Steam Binding of Auxiliary Feedwater Pumps	07/84	10/84	HIGH
94	Additional Low-Temperature-Overpressure Protection For Light Water Reactors	08/84	07/85	HIGH
98	CRD Accumulator Check Valve Leakage	09/84	02/85	DROP
99	RCS/RHR Suction Line Interlocks on PWRs	09/84	08/85	HIGH
101	BWR Water Level Redundancy	09/84	05/85	HIGH
102	Human Error in Events Involving Wrong Unit or Wrong Train	09/84	02/85	S(HF-02)
103	Design For Probable Maximum Precipitation	10/84	09/85	NR
105	Interfacing System LOCA at BWRs	10/84	06/85	HIGH
108	BWR Suppression Pool Temperature Limits	12/84	02/85	RI(LOW)
119	Piping Review Committee Recommendations	07/85	09/85	RI(NR)
121	Hydrogen Control For Large Dry Containments	08/85	09/85	HIGH

TABLE 6 (Continued)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-85(cont'd)</u>				
B-19	Thermal-Hydraulic Stability	02/83	01/85	NR
B-50	Post Operating Basis Earthquake Inspection	02/83	04/85	RI(LOW)
B-59	N-1 Loop Operation in BWRs and PWRs	02/83	06/85	RESOLVED
HF-01	Human Factor Program Plan (HFPP with 24 subtasks)	08/83	10/84	HIGH
HF-02	Maintenance and Surveillance Program Plan (MSPP with ten subtasks)	04/84	03/85	HIGH
<u>FY-86</u>				
21	Vibration Qualification of Equipment	03/83	06/86	DROP
30	Potential Generator Missiles - Generator Rotor Retaining Rings	09/82	10/85	DROP
74	Reactor Coolant Activity Limits for Operating Reactors	06/83	05/86	DROP
97	PWR Reactor Cavity Uncontrolled Exposure	09/84	10/85	S(III.D.3.1)
111	Stress Corrosion Cracking of Pressure Boundary Ferritic Steels in Selected Environments	01/85	11/85	LI
112	Westinghouse RPS Surveillance Frequencies and Out-of-Service Times	01/85	10/85	RI(R)
114	Seismic-Induced Relay Chatter	03/85	06/86	S(USI A-46)
115	Reliability of Westinghouse Solid State Protection System	04/85	07/86	HIGH
122.1.a	Common Mode Failure of Isolation Valves in Closed Position	08/85	01/86	HIGH
122.1.b	Recovery of Auxiliary Feedwater	08/85	01/86	MEDIUM
122.1.c	Interruption of Auxiliary Feedwater Flow	08/85	01/86	HIGH
122.2	Initiating Feed-and-Bleed	08/85	01/86	HIGH
122.3	Physical Security System Constraints	08/85	01/86	LOW
124	Auxiliary Feedwater System Reliability	12/85	02/86	NR
125.I.2.a	PORV Reliability - Test Program	11/85	06/86	S(70)
125.I.2.b	PORV Reliability - Surveillance	11/85	06/86	S(70)
125.I.2.c	Auto Block Valve Closure	11/85	06/86	DROP

TABLE 6 (Continued)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-86 (cont'd)</u>				
125.I.2.d	Equipment Qualification for Feed-and-Bleed Environment	11/85	06/86	S(USI A-45)
125.II.3	Review Steam/Feed Line Break Mitigation Systems for Single Failure	11/85	08/86	DROP
125.II.4	OTSG Dryout and Reflood Effects	11/85	09/86	DROP
125.II.7	Reevaluate Provisions to Automatically Isolate Feedwater from Steam Generator During Line Break	11/85	09/86	HIGH
125.II.9	Enhance Feed-and-Bleed Capability	11/85	08/86	S(USI A-45)
125.II.14	Remote Operation of Equipment Which Must Now be Operated Locally	11/85	08/86	LOW
133	Update Policy Statement on Nuclear Plant Staff Working Hours	07/86	07/86	LI
134	Rule on Degree and Experience Requirement	07/86	07/86	HIGH
C-4	Statistical Methods for ECCS Analysis	02/83	06/86	RI(R)
C-5	Decay Heat Update	02/83	06/86	RI(R)
C-6	LOCA Heat Sources	02/83	06/86	RI(R)
<u>FY-87</u>				
113	Dynamic Qualification Testing of Large Bore Hydraulic Snubbers	03/85	07/87	HIGH
125.I.1	Availability of the STA	11/85	07/87	DROP
125.I.4	Plant-Specific Simulator	11/85	02/87	DROP
125.I.7.b	Realistic Hands-On Training	11/85	03/87	DROP
125.I.8	Procedures and Staffing for Reporting to NRC Emergency Response Center	11/85	06/87	DROP
125.II.1.a	Two-Train AFW Reliability	11/85	10/86	DROP
125.II.1.b	Review Existing AFW Systems for Single Failure	11/85	10/86	HIGH
125.II.1.c	NUREG-0737 Reliability Improvements	11/85	10/86	DROP

TABLE 6 (Continued)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-87 (cont'd)</u>				
125.II.1.d	AFW Steam and Feedwater Rupture Control System/ICS Interactions in B&W Plants	11/85	10/86	DROP
125.II.2	Adequacy of Existing Maintenance Requirements for Safety-Related Systems	11/85	06/87	DROP
125.II.5	Thermal-Hydraulic Effects of Loss and Restoration of Feedwater on Primary System Components	11/85	06/87	DROP
125.II.6	Reexamine PRA Estimates of Core Damage Risk from Loss of All Feedwater	11/85	03/87	DROP
125.II.8	Reassess Criteria for Feed-and-Bleed Initiation	11/85	03/87	DROP
125.II.10	Hierarchy of Impromptu Operator Actions	11/85	02/87	DROP
125.II.12	Adequacy of Training Regarding PORV Operation	11/85	03/87	DROP
127	Testing and Maintenance of Manual Valves in Safety-Related Systems	05/86	06/87	LOW
128	Electrical Power Reliability	05/86	11/86	HIGH
130	Essential Service Water Pump Failures at Multi-plant Sites	06/86	03/87	HIGH
135	Steam Generator and Steam Line Overfill	05/86	06/87	MEDIUM
<u>FY-88</u>				
43*	Reliability of Air Systems	04/87	12/87	HIGH
55*	Failure of Class 1E Safety-Related Switchgear Circuit Breakers to Close on Demand	09/85	02/88	DROP
57	Effects of Fire Protection System Actuation on Safety-Related Equipment	09/82	05/88	MEDIUM
62	Reactor Systems Bolting Applications	10/82	08/88	S(29)
88	Earthquakes and Emergency Planning	01/84	10/87	RESOLVED
104	Reduction of Boron Dilution Requirements	10/84	08/88	DROP

* Previous priority evaluation published in NUREG-0933.

TABLE 6 (Continued)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>FY-88 (cont'd)</u>				
106	Piping and Use of Highly Combustible Gases in Vital Areas	10/84	11/87	MEDIUM
125.I.3	SPDS Availability	11/85	05/88	NR
125.I.6	Valve Torque Limit and Bypass Switch Settings	11/85	12/87	DROP
125.I.7A	Recover Failed Equipment	11/85	12/87	DROP
125.II.11	Recovery of Main Feedwater as Alternative to AFW	11/85	06/88	DROP
125.II.13	Operator Job Aids	11/85	03/88	DROP
126	Reliability of PWR Main Steam Safety Valves	03/86	03/88	LI
136	Storage and Use of Large Quantities of Cryogenic Combustibles on Site	09/86	03/88	LI
C-14	Storm Surge Model for Coastal Sites	02/83	05/88	LI(DROP)
III.D.1.1(2)	Review Information on Provisions for Leak Detection	12/82	09/88	DROP
III.D.1.1(3)	Develop Proposed System Acceptance Criteria	12/82	09/88	DROP
<u>FY-89</u>				
15*	Radiation Effects on Reactor Vessel Supports	09/88	02/89	HIGH
125.I.5	Safety Systems Tested in All Conditions Required by Design Basis Analysis	11/85	11/88	DROP
131	Potential Seismic Interaction Involving the Moveable In-Core Flux Mapping System Used in Westinghouse Plants	07/86	07/89	MEDIUM
139	Thinning of Carbon Steel Piping in LWRs	12/86	11/88	RESOLVED
B-31	Dam Failure Model	02/83	02/89	LI(DROP)
D-2	ECCS Capability for Future Plants	06/83	10/88	DROP

* Previous priority evaluation published in NUREG-0933.

TABLE 7

GENERIC ISSUES TO BE PRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Identification Date	Current Schedule
38	Potential Recirculation System Failure as a Consequence of Injection of Containment Paint Flakes or Other Fine Debris	09/82	11/89
63	Use of Equipment Not Classified as Essential to Safety in BWR Transient Analysis	10/82	03/90
71	Failure of Resin Demineralizer Systems and Their Effects on Nuclear Power Plant Safety	06/83	11/89
72	Control Rod Drive Guide Tube Support Pin Failures	06/83	04/90
73	Detached Thermal Sleeves	06/83	11/89
76	Instrumentation and Control Power Interactions	06/83	03/90
78	Monitoring of Fatigue Transient Limits for Reactor Coolant System	06/83	01/90
89	Stiff Pipe Clamps	02/84	03/90
95	Loss of Effective Volume For Containment Recirculation Spray	08/84	04/90
96	RHR Suction Valve Testing	04/84	11/89
100	OTSG Level	09/84	12/89
107	Generic Implications of Main Transformer Failures	11/84	11/89
109	Reactor Vessel Closure Failure	12/84	11/89
110	Equipment Protection Devices on Engineered Safety Features	12/84	11/89
116	Accident Management	04/85	05/90
117	Allowable Outages Times For Diverse Simultaneous Equipment Outages	05/85	09/90
118	Tendon Anchorage Failure	07/85	03/90
120	On-Line Testability of Protection Systems	08/85	04/90
123	Deficiencies in the Regulations Governing DBA and Single Failure Criterion Suggested by the Davis-Besse Incident of June 9, 1985	11/85	04/90
129	Valve Interlocks to Prevent Vessel Drainage During Shutdown Cooling	05/86	02/90
132	RHR Pumps Inside Containment	07/86	05/90
137	Refueling Cavity Seal Failure	10/86	11/89
138	Deinerting Upon Discovery of RCS Leakage	10/86	03/90
140	Fission Product Removal by Containment Sprays or Pools	03/87	11/89
141	LBLOCA With Consequential SGIR	04/87	11/89
142	Leakage Through Electrical Isolators	06/87	04/90
143	Availability of Chilled Water Systems	10/87	12/89
144	Scram Without a Turbine/Generator Trip	03/88	04/90
145	Improve Surveillance and Startup Testing Programs	09/88	09/90
146	Support Flexibility of Equipment and Components	01/89	TBD
147	Fire-Induced Alternate Shutdown Control Room Panel Interactions	04/89	TBD

TABLE 7 (Continued)

GENERIC ISSUES TO BE PRIORITIZED AS OF FOURTH QUARTER FY-89 (CON'T)

<u>Action Item/ Issue No.</u>	<u>Title</u>	<u>Identification Date</u>	<u>Current Schedule</u>
148	Smoke Control and Manual Fire-Fighting Effectiveness	04/89	TBD
149	Adequacy of Fire Barriers	04/89	TBD
150	Overpressurization of Containment Penetrations	04/89	TBD
151	Reliability of Recirculation Pump Trip During an ATWS	04/89	TBD

TOTAL: 35

TABLE 8

GENERIC ISSUES TO BE REPRIORITIZED AS OF FOURTH QUARTER FY-89

Action Item/ Issue No.	Title	Previous Priority	Identification Date	Current Schedule
2	Failure of Protective Devices on Essential Equipment	MEDIUM	05/83	08/90
24	Automatic Emergency Core Cooling System Switch to Recirculation	NR	03/83	01/90
81*	Potential Safety Problems Associated with Locked Doors and Barriers in Nuclear Power Plants	DROP ²	12/86	03/90
A-19	Digital Computer Protection System	LI	02/83	03/90
B-22	LWR Fuel	LI	02/83	12/89
B-29	Effectiveness of Ultimate Heat Sinks	LI	02/83	06/90
B-32	Ice Effects on Safety-Related Water Supplies	LI	02/83	12/89
C-9*	RHR Heat Exchanger Tube Failures	DROP	07/84	12/89

TOTAL: 8

* Previous priority evaluation published in NUREG-0933

TABLE 9

REGULATORY IMPACT ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/branch	Priority	Date Approved for Resolution	Resolution Date at end of FY-87	Current Resolution Date
119.1	Piping Rupture Requirements and Decoupling of Seismic and LOCA Loads	NRR/DEST/EMTB	RI	09/10/85	TBD	TBD
119.2	Pipe Damping Values	RES/DE/SSEB	RI	09/10/85	11/88	11/89
119.3	Decoupling OBE from SSE	RES/DE/SSEB	RI	09/10/85	TBD	TBD
119.4	BWR Piping Materials	RES/DE/MEB	RI	09/10/85	01/89	06/90
119.5	Leak Detection Requirements	RES/DE/MEB	RI	09/10/85	12/88	03/90

TOTAL: 5

TABLE 10

LICENSING ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/ Branch	Current Resolution Date
67.5.1	Reassessment of Radiological Consequences	RES/DSIR/RPSI	04/90
67.5.2	Reevaluation of SGTR Design Basis	RES/DSIR/RPSI	04/90
133	Update Policy Statement on Nuclear Power Plant Staff Working Hours	NRR/DLPQ/LHFB	TBD
I.D.5(5)	Disturbance Analysis Systems	RES/DSR/HFB	11/89
II.B.5(1)	Behavior of Severely Damaged Fuel	RES/CE/WMB	06/94
II.B.5(2)	Behavior of Core-Melt	RES/DE/WMB	06/94
II.B.5(3)	Effect of Hydrogen Burning and Explosions on Containment Structure	RES/DSR/AEB	11/91
<u>TOTAL: 8</u>			

INDEX OF ISSUES
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23	REACTOR COOLANT PUMP SEAL FAILURES	3
29	BOLTING DEGRADATION OR FAILURE IN NUCLEAR POWER PLANTS	7
51	IMPROVING THE RELIABILITY OF OPEN CYCLE SERVICE WATER SYSTEMS	9
57	EFFECTS OF FIRE PROT. SYS. ACTUATION ON SAFETY-RELATED EQUIP.	12
67.5.1	REASSESSMENT OF SGTR DESIGN BASIS	14
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70	PORV AND BLOCK VALVE RELIABILITY	18
75	GENERIC IMPLICATIONS OF ATWS EVENTS AT SALEM - QA	21
79	UNANALYZED RX VESSEL THERMAL STRESS DURING NATURAL CONVECTION COOLING	23
83	CONTROL ROOM HABITABILITY	25
84	CE PLANTS WITHOUT PORVS	28
87	FAILURE OF HPCI STEAM LINE WITHOUT ISOLATION	30
94	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	33
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105	INTERFACING SYSTEMS LOCA AT LWRS	40
106	PIPING AND USE OF HIGHLY COMBUSTIBLE GASES IN VITAL AREAS	44
113	DYNAMIC QUALIF. TESTING OF LARGE BORE HYDRAULIC SNUBBERS	47
119.1	PIPE RUPTURE REQUIREMENTS	50
119.2	PIPE DAMPING VALUES	54
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119.4	BWR PIPING MATERIALS	57

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130	ESSENTIAL SERVICE WATER PUMP FAILURES AT MULTIPLANT SITES	65
133	UPDATE POLICY STATEMENT ON NUCLEAR PLANT STAFF WORKING HOURS	67
134	RULE ON DEGREE AND EXPERIENCE REQ. FOR SENIOR OPERATORS	69
135	STEAM GENERATOR AND STEAM LINE OVERFILL ISSUES	71
A-17	SYSTEM INTERACTIONS IN NUCLEAR POWER PLANTS	74
A-29	NUCLEAR POWER PLANT VULNERABILITY TO SABOTAGE	77
A-40	SEISMIC DESIGN CRITERIA	79
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B-55	IMPROVE RELIABILITY OF TARGET ROCK SAFETY-RELIEF VALVES	88
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C-8	MAIN STEAM LINE LEAKAGE CONTROL	98
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HF 5.2	REV. CRIT. FOR HUMAN FACTORS ASPECTS OF ADV CONTROLS AND INSTRUMENT.	106
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RUN DATE : 11/03/89

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GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 15 TITLE: RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS
 IDENTIFICATION DATE: 06/80 PRIORITIZATION DATE: 02/89 TYPE: GSI PRIORITY: H
 TASK MANAGER: R. JOHNSON OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: _____
 WORK AUTHORIZATION: FEB. 8, 1989 MEMO FROM E. BECKJORD TO R.W. HOUSTON

FIN	CONTRACTOR	CONTRACT TITLE
A2256	ANL	SHIPPINGPORT SHIELD TANK TESTING (MEB)
A3841	BNL	TROJAN SUPPORT STABILITY ANALYSIS (ESGB)
B0415	ORNL	TROJAN SHIELD FLUX ATTENUATION (MEB)
B5848	MEA	MTR IRRADIATION OF STRUCTURAL STEELS (MEB)
B6021	LLNL	CONSEQUENCE EVALUATION OF EMBRITTLED RPV SUPPORTS (SSEB)
B6224	NIST	TROJAN CAVITY DOSIMETRY MEASUREMENT (MEB)
G1169	MPD NETWORK	NUCLEAR MATERIALS DATA RETRIEVAL FROM THE MPD NETWORK (EIB)
L1191	PAL ASSOCI	RPV SUPPORTS TECHNICAL ASSISTANCE (EMTB)
L1296	INEL	RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS (EIB)
XXXXX	UNDESIGNAT	IRRADIATION ANALYSES (EIB)

WORK SCOPE

- A) DEVELOP GENERAL RPV SUPPORT REVIEW CRITERIA AND RESOLUTION PACKAGE (FIN L1296, G1169)
- B) EVALUATION OF TROJAN PLANT RPV SUPPORT IRRADIATION EFFECTS (FIN L1296, G1169)
- C) DETERMINE RELEVANT RADIATION PARAMETERS AND EFFECT ON MATERIALS (FIN XXXXX)
- D) PROGRAMS UNDER DE (RES) CONTROL: SPECIFIC PORTIONS IMPORTANT TO GSI-15 RESOLUTION TO BE IDENTIFIED (FINS A3841, B6021, B6224, B0415, A2256, B5848, AND UNDESIGNATED ONES)

STATUS

COMMENTS ON TAP RECEIVED FROM: NRR, AEOD, AND DE (RES); TAP REVISED TO ACCOMMODATE COMMENTS, BUT DSIR MANAGEMENT DIRECTED SUBSTANTIAL REVISION. T/A CONTRACT PLACED WITH INEL AND WORK BEGUN. GRANT PLACED WITH MPD NETWORK AND SEMINAR HELD (FIN L1296, G1169). T/A CONTRACT DISCUSSION INITIATED ON WORK SCOPE ITEM C. (FIN A2256, B5848)
 F) SUBTASK WILL BE STARTED LATE IN FY90 BY MEB (FIN XXXXX)
 G) MEETINGS WITH CE AND WESTINGHOUSE OWNERS GROUPS WERE HELD; NRR T/A CONSULTANTS ARE UNDER CONTRACT (FIN L1191)

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 15

TITLE: RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS

AFFECTED DOCUMENTS

 10 CFR 50
 STANDARD REVIEW PLAN SECTIONS 3.9 AND 5.4
 ASME SECTION III
 ASME SECTION XI

PROBLEM/RESOLUTION

 THE LIST OF CONTRACT TITLES REPRESENTS ONGOING PROGRAMS
 WHICH HAVE NOT BEEN FULLY EVALUATED FOR APPLICABILITY TO
 THIS ISSUE.

M I L E S T O N E S

-----	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
GSI 15 ASSIGNED TO RES/DSIR/EIB	--	--	02/89
DRAFT TAP TO DSIR DEPUTY DIRECTOR	05/89	--	05/89
DRAFT TAP APPROVED BY DSIR DIRECTOR AND FORWARDED TO OTHER RES DIVISION DIRECTORS AND NRR FOR COMMENT	06/89	--	07/89
INCORPORATE COMMENTS IN TAP	07/89	--	09/89
FINAL TAP APPROVED BY DSIR DIRECTOR	08/89	10/89	--
CLOSE OUT ISSUE	--	--	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 23 TITLE: REACTOR COOLANT PUMP SEAL FAILURES
 IDENTIFICATION DATE: 12/80C PRIORITIZATION DATE: 04/83C TYPE: GSI PRIORITY: H
 TASK MANAGER: K. SHAUKAT OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 07/91
 WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN, (APPENDIX G)

FIN	CONTRACTOR	CONTRACT TITLE
A3751	BNL	REACTOR COOLANT PUMP (RCP) SEAL INTEGRITY
A3771	BNL	ASSESS EFFECT OF MECH. MAINT. RCP SEAL
A3806	NONE	EVAL. ADEQ. OF RCP SEAL INSTR. & RESP. TO RCP
A6322	NONE	RCP SHAFT SEAL BEHAVIOR DURING ST. BLACKOUT
B2953	PNL	REACTOR COOL. PUMP SEAL FAIL. VAL IMP. ANALYSIS
B3049	NONE	LEAK RATE ANALYSIS OF WESTINGHOUSE RCP
D1760	SCIEN TECH	REG. ANAL. FOR GI-23, RCP SEAL FAILURES

WORK SCOPE

THE TAP FOR THIS ISSUE WAS REVISED TO INCORPORATE WORK NECESSARY TO COMPLETE GSI 65. REVIEW PWR RCP SEAL FAILURES CAUSED BY MECHANICAL FAILURES AND LOSS OF SEAL COOLING TO ASCERTAIN IF INCREASED NRC REQUIREMENTS ARE NECESSARY TO MINIMIZE SEAL FAILURES. EVALUATE THE EFFECTS OF SYSTEM DESIGN, MATERIALS, OPERATION, TESTING, AND MAINTENANCE ON SEAL FAILURE MECHANISMS. REVIEW THE RELIAB. OF SEAL COOLING SYSTEMS AND IDENTIFY METHODS TO MINIMIZE THE EFFECTS OF LOSS OF SEAL COOLING. PERFORM A RISK ASSESSMENT OF SEAL FAILURE FROM MAINTENANCE AND MECHANICAL EFFECTS. THIS PROGRAM WILL DETERMINE WHAT STEPS THE NRC

SHOULD TAKE, IF ANY, TO REDUCE RCP SEAL FAILURE TO AN ACCEPTABLE LEVEL COMMENSURATE WITH THE POTENTIAL SAFETY CONSEQUENCES OF SEAL FAILURE. THE PROGRAM CONSISTS OF THE FOLLOWING MAJOR TASKS:
 TASK 1 - DETERMINE ACTUAL SEAL FAILURE MECHANISMS.
 TASK 2 - EVALUATE RCP SEAL COOLING FOR ALL MODES OF OPERATION FOR WHICH SEAL COOLING IS REQ'D USING THE RELIABILITY OF TYPICAL RCP SEAL COOLING SYSTEM DESIGNS.
 TASK 3 - REVIEW MECHANICAL AND MAINTENANCE-INDUCED FAILURE MECHANISMS.
 TASK 4- FEASIBILITY STUDY TO IDENTIFY MOST EFFECTIVE FIX.

STATUS

RSB PROVIDED INPUT TO TASK 1 (ASSEMBLE BACKGROUND INFORMATION ON SEAL FAILURES) WHICH INCL. AN LER SEARCH, A REVIEW OF INDUSTRY EXPERIENCE, AND A BWR SCREENING REVIEW. BNL HAS COMPLETED ADDITIONAL WORK ON THIS TASK UNDER FIN A-3771 PUBLISHED AS NUREG/CR-4400. EIB COMPLETED TASK 2.1 EVALUATING THE EFFECTS OF LOSS OF SEAL COOLING. INPUT WAS PROVIDED THROUGH CON-

TRACTS WITH AECL AND ETEC. THE AECL WORK IS COMPLETE AND NUREG/CR-4077, "REACTOR COOLANT PUMP SHAFT SEAL BEHAVIOR DURING STATION BLACKOUT" HAS BEEN ISSUED. THE ETEC WORK HAS BEEN COMPLETED AND NUREG/CR-4294, "LEAK RATE ANALYSIS OF THE WESTING. REACTOR COOLANT PUMP" HAS BEEN ISSUED. ADDITIONAL CONCERNS REGARDING SEALS DISCOVERED THROUGH RESEARCH AT AECL WERE INVESTIGATED THROUGH A FOLLOW-ON CONTRACT AT AECL. THIS

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 23

TITLE: REACTOR COOLANT PUMP SEAL FAILURES

STATUS

WORK WAS PUBLISHED IN NUREG/CR-4821, "REACTOR COOLANT PUMP SHAFT SEAL STABILITY DURING STATION BLACKOUT"

THE BNL WORK ON SUBTASK 2.2 HAS BEEN COMPLETED AND NUREG/CR-4643, "EVALUATION OF CORE DAMAGE SEQUENCES INITIATED BY LOSS OF REACTOR COOLANT PUMP SEAL COOLING" HAS BEEN ISSUED.

EIB, UNDER CONTRACT FIN A-3771 WITH BNL, COMPLETED TASK 3.1 EVALUATING THE EFFECTS OF MECHANICAL AND MAINTENANCE-INDUCED RCP SEAL FAILURES ON RISK. NUREG/CR-4400, "THE IMPACT OF MECHANICAL AND MAINTENANCE-INDUCED FAILURES OF MAIN REACTOR COOLANT PUMP SEALS IN PLANT SAFETY" HAS BEEN ISSUED.

EIB, UNDER CONTRACT FIN A-3806 WITH BNL, COMPLETED TASK 2.3 AND 3.2 EVALUATING THE ADEQUACY OF CURRENT RCP SEAL AND SEAL COOLING SYSTEM INSTRUMENTATION TO DETECT RCP SEAL DEGRADATION AND FAILURES; THE ADEQUACY OF CURRENT AUTOMATIC ACTIONS AND MANUAL OPERATOR RESPONSES TO PREVENT RCP SEAL LOCAS OR OTHER UNACCEPTABLE EVENTS AND TO PROPOSE POSSIBLE INSTRUMENTATION CHANGES, AUTOMATIC ACTIONS OR MANUAL OPERATOR RESPONSES WHICH COULD IMPROVE THE CURRENT RCP SEAL SAFETY PROCEDURES. NUREG/CR-4544, "REACTOR COOLANT PUMP SEAL RELATED INSTRUM AND OPERATOR RESPONSE," HAS BEEN ISSUED. IN ADDITION, NUREG/CR-4948, "TECHNICAL FINDINGS RELATED TO GI-23, REACTOR COOLANT PUMP SEAL FAILURES" HAS

BEEN ISSUED, INCORPORATING RESULTS OF VARIOUS STUDIES AND OTHER PERTINENT RESULTS.

THE STAFF HAS RECEIVED THE WESTINGHOUSE REPORT WITH THE RESULTS OF THE FRENCH RCP SEAL TEST AND THE RESPONSE TO THE STAFF CONCERNS REGARDING WCAP-10541 ON RCP SEAL PERFORMANCE DURING STATION BLACKOUT. ADDITIONAL CONCERNS REGARDING ALL TYPES OF RCP SEALS WERE RAISED AS A RESULT OF THE AECL TEST PROGRAM. THE TEST PROGRAM AT AECL WAS EXTENDED TO FURTHER INVESTIGATE THESE CONCERNS. NUREG/CR-4821 AND NUREG/CR-4906P HAVE BEEN ISSUED COVERING THE RESULTS OF THIS PROGRAM. THE REVISED MILESTONES INCORPORATE THE RESULTS OF THE FRENCH TEST, WESTINGHOUSE REPORT, AND THE AECL WORK TO THE EXTENT POSSIBLE AT THIS TIME.

EIB, UNDER CONTRACT FIN B-2953, WORKED ON TASK 4 FOR A VALUE-IMPACT ANALYSIS OF PROPOSED RESOLUTION TO GSI-23 WHICH THE STAFF DRAFTED IN 06/86 WITH THE AID OF THE RCP SEAL SUPPORT CONTRACTORS. AFTER RECEIVING AND REVIEWING A DRAFT OF THE FINAL REPORT FROM THIS STUDY, THE STAFF HAD DETERMINED ADDITIONAL WORK WOULD BE REQUIRED. SCIENTECH WAS CONTRACTED TO COMPLETE THIS TASK UNDER FIN D1760 WHICH WILL RESULT IN A CONSIDERATION OF ALTERNATIVES REPORT AND A COST BENEFIT REPORT. THE STAFF WILL THEN DEVELOP A REGULATORY ANALYSIS (NUREG REPORT) FROM CONTRACTOR'S WORK AND OTHER RELATED INFORMATION.

AFFECTED DOCUMENTS

TO BE DETERMINED.

PROBLEM/RESOLUTION

STAFF REVIEW OF SCIENTECH REPORTS IDENTIFIED THE NEED TO IMPROVE AND REVISE THE REPORTS. SCIENTECH IS CURRENTLY REVISING THEM. COMPLETION OF REPORTS IS EXPECTED IN OCTOBER 1989.

MILESTONES

TAP ISSUED FOR COMMENT

ORIGINAL DATE

04/83

CURRENT DATE

--

ACTUAL DATE

03/83

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 23

TITLE: REACTOR COOLANT PUMP SEAL FAILURES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
TAP APPROVED BY DSI DIR	10/83	--	10/83
ISSUED REQUEST FOR PROPOSAL TO BNL FOR COMPONENT COOLING WATER PRA	11/83	--	11/83
TRANSFER RESOLUTION REPONSIBILITY FROM DSI TO DE	06/84	--	06/84
TRANSFER RESOLUTION RESPONSIBILTY FROM DE TO DST/GIB	05/85	--	05/85
COMPLETE DOCUMEN. OF BACKGROUND PAST SEAL FAILURES, INCLUDING LER SEARCH, REV OF INDUST. EXP & REV OF BWR SCR (TASK 1)	05/85	--	12/85
EVAL. RCP SEAL COOLING, INCL. DETERM. EFFECT OF LOSS COOLING, EVAL RELIAB. OF COOLING SYS. AND REV. RCP SEAL COOLING INSTR. (TASK 2)	12/84	--	08/86
EVALUATE MECHANICAL AND MAINTENANCE-INDUCED FAILURE MECHANISMS (TASK 3)	01/85	--	01/88
DRAFT SCIENTECH REPORTS TO IDENTIFY MOST EFFECTIVE FIX. (TASK 4)	03/85	--	01/89
REVIEW & FINALIZE SCIENTECH REPORTS	05/89	10/89	--
DTR PACKAGE COMPLETE	07/85	02/90	--
DIVISION DEPUTY DIRECTOR REVIEW COMPLETED	08/85	03/90	--
CONCURRENCE BY OTHER OFFICES	09/85	04/90	--
DTR SENT TO CRGR/ACRS	10/85	05/90	--
ACRS REVIEW OF DTR COMPLETE	11/85	06/90	--
CRGR REVIEW OF DTR COMPLETE	11/85	06/90	--
DTR SENT TO EDO	07/90	07/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 23

TITLE: REACTOR COOLANT PUMP SEAL FAILURES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DTR SENT TO COMMISSION	08/90	08/90	--
FRN OF ISSUANCE OF PROPOSED RESOLUTION FOR PUBLIC COMMENT	12/85	09/90	--
COMPLETE REVIEW OF PUBLIC COMMENTS AND PREPARE FTR PACKAGE	04/86	02/91	--
DIVISION DEPUTY DIRECTOR REVIEW OF FTR COMPLETED	05/86	03/91	--
CONCURRENCE BY OTHER OFFICES	11/89	04/91	--
ACRS AND CRGR REVIEW OF FTR COMPLETED	06/86	05/91	--
FTR SENT TO EDO/COMMISSION	06/91	06/91	--
FRN OF ISSUANCE OF FTR	07/86	07/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 29 TITLE: BOLTING DEGRADATION OR FAILURE IN NUCLEAR POWER PLANTS
 IDENTIFICATION DATE: 10/81C PRIORITIZATION DATE: 08/82C TYPE: GSI PRIORITY: H
 TASK MANAGER: T. CHANG OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 05/90
 WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN (APPENDIX G)

FIN	CONTRACTOR	CONTRACT TITLE
A3359	BNL	BOLTING APPLICATIONS REQUIREMENTS
A3782	BNL	BOLTING APPLICATIONS REQUIREMENTS
B2593	PNL	BOLTING DEGRADATION VALUE IMPACT ANALYSIS

WORK SCOPE

THIS ISSUE INCLUDES ALL SAFETY RELATED BOLTING, WITH THE EMPHASIS ON REACTOR COOLANT PRESSURE BOUNDARY BOLTING DEGRADATION OR FAILURE. TASKS INCLUDE:

<ol style="list-style-type: none"> 1. DEVELOPMENT OF THE TECHNICAL BASES FOR BOLTING APPLICATION REQUIREMENTS. 2. REVIEW LICENSEE RESPONSES TO IEB 82-02. 	<p>"DEGRADATION OF THREADED FASTENERS IN THE REACTOR COOLANT PRESSURE BOUNDARY OF PWR PLANTS."</p> <ol style="list-style-type: none"> 3. DRAFT STAFF RECOMMENDATION FOR PROPOSED CRITERIA/GUIDELINES TO BE INCORPORATED INTO THE SRP. 4. DEVELOP A PROPOSED IMPLEMENTATION PLAN FOR MANAGEMENT CONSIDERATION.
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STATUS

<p>REVIEW OF THE GSI-29 RESOLUTION PACKAGE CONTINUED. IN RESPONSE TO COMMENTS RECEIVED, THE STAFF PREPARED ADDITIONAL SUPPORTING INFORMATION REGARDING THE VARIETY OF REQUIREMENTS (ASME CODE, NRC RULES, ETC.) CURRENTLY APPLIED TO NUCLEAR</p>	<p>BOLTING AND HOW THE NEW PROPOSED RULEMAKING (ON MAINTENANCE AND PRODUCT ACCEPTABILITY) WOULD IMPACT THE GSI-29 PROPOSED RESOLUTION. A COMPLETE REVISION OF THE DRAFT GENERIC LETTER IS UNDERWAY.</p>
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AFFECTED DOCUMENTS

SRP REVISION. {NRR}

PROBLEM/RESOLUTION

GSI-29 WAS ASSIGNED TO A NEW TASK MANAGER IN LATE JUNE 1989. IT HAS TAKEN SOME TIME FOR THE TASK MANAGER TO GET FAMILIAR WITH THE ISSUE. IT HAS BEEN DECIDED TO REVISE THE PROPOSED RESOLUTION PACKAGE TO IMPOSE SOME ADDITIONAL REQUIREMENTS ON FUTURE PLANTS, BUT NOT TO IMPOSE SPECIFIC NEW REQUIREMENTS ON PLANTS THAT CURRENTLY HAVE A CP OR OL. REVISION OF THE RESOLUTION PACKAGE TO REFLECT THIS DECISION WILL DELAY

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 29

TITLE: BOLTING DEGRADATION OR FAILURE IN NUCLEAR POWER PLANTS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

RESOLUTION ONE MONTH.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ISSUE CONTRACT TO BNL	03/83	--	03/83
RECEIVE DRAFT NUREG/CR REPORT FROM CONTRACTOR	07/83	--	07/83
STAFF REVIEW OF DRAFT NUREG/CR REPORT	07/83	--	03/84
DRAFT STAFF POSITION (REVISED SRP SECTION)	07/84	--	08/84
PREPARE DRAFT VALUE/IMPACT STATEMENT	08/83	--	05/85
EVALUATE PROPOSED RESOLUTION OF USI A-45 AND EPRI/AIF SUMMARY PAPER	03/89	--	09/87
REVISE REGULATORY ANALYSIS	04/88	--	06/88
DRAFT CRGR PACKAGE	10/88	--	01/89
DIVISION DEPUTY DIRECTOR REVIEW COMPLETED	12/83	12/89	--
CRGR PACKAGE TO OFFICES FOR REVIEW	01/89	01/90	--
REVIEW PACKAGE TO CRGR & ACRS (29)	01/84	03/90	--
ACRS & CRGR REVIEW COMPLETED	04/88	04/90	--
ISSUANCE OF CLOSE-OUT MEMO	03/89	05/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 51 TITLE: IMPROVING THE RELIABILITY OF OPEN CYCLE SERVICE WATER SYSTEMS
 IDENTIFICATION DATE: 09/82C PRIORITIZATION DATE: 06/83C TYPE: GSI PRIORITY: M
 TASK MANAGER: T. CHANG OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 07/89C

WORK AUTHORIZATION: MEMO TO R J. MATTSO FROM H R. DENTON DATED JUNE 3, 1983.
 NRR FY-84 OPERATING PLAN. (APPENDIX G).

FIN	CONTRACTOR	CONTRACT TITLE
B2977	PNL	IMPROVING RELIABILITY OF OPEN-CYCLE WATER SYSTEMS

WORK SCOPE

THE DETAILED WORK SCOPE IS PROVIDED IN THE TAP FOR ISSUE 51 (MEMORANDUM FROM R. MATTSO TO T. SPEIS, ET AL., DATED 01/11/84). IN SUMMARY, THE SCOPE OF THIS TASK WILL BE TO EVALUATE THE ADEQUACY OF SURVEILLANCE

AND CONTROL METHODS AND TO PROPOSE THE USE OF THOSE METHODS WHICH WILL ASSURE THE CONTINUED RELIABILITY OF OPEN CYCLE SERVICE WATER SYSTEMS AGAINST VARIOUS FORMS OF FOULING.

STATUS

THE TAP WAS REVISED AND ISSUED ON 10/3/84. THE SOW WAS REVISED ON 5/9/85 TO INCORPORATE RES PROJECT TASK V INTO NRR'S TECHNICAL ASSISTANCE PROJECT. THE TAP WAS REVISED TO BE CONSISTENT WITH THE SOW AND TO ASSURE THAT IT INCORPORATED MILESTONES NECESSARY TO PROCESS CRGR SRP PACKAGES THROUGH ISSUANCE AND USE. THE FIRST 4 TASKS ASSOCIATED WITH THIS ISSUE ARE TIED TO RES PROJECT B2463 AND ARE COMPLETE. BASED UPON THE RESULTS OF THIS RESEARCH WHICH DEALS WITH BIOFOULING, EIB WILL ADAPT, WHERE POSSIBLE, METHODS FOR SURVEILLANCE AND CONTROL OF BIOFOULING TO FOULING BY MUD, SILT AND CORROSION PRODUCTS.

A MODIFIED PNL PROPOSAL DATED 10/85 WAS APPROVED BY DSRO ON 5/15/86. THE CONTRACTOR WILL DETERMINE THE APPLICABILITY OF BIOFOULING SURVEILLANCE AND CONTROL METHODS CONTAINED IN NRC-FURNISHED MATERIALS TO OPEN CYCLE WATER SYSTEMS IN NUCLEAR POWER PLANTS.

TASKS 1 & 2 (OF 4) OF THE SOW WERE COMPLETED, WITH THE PUBLICATION OF NUREG/CR-4626 (VOLS 1 & 2) IN 9/86 AND 3/87, RESPECTIVELY. COORDINATION OF THIS PROJECT WITH RES IS DOCUMENTED IN A MEMORANDUM FROM R. MATTSO TO F. ARSENAULT,

DATED 01/23/84.

DSRO REQUESTED MODIFICATION OF THE CONTRACT ON 12/22/86 TO INCLUDE PREPARATION OF A GUIDANCE DOCUMENT (INTO TASK 4) AND PREPARATION OF THE PRA/VALUE IMPACT ASSESSMENT AS A NEW TASK 5. THE RESULTING 189 (DATED 1/26/87), ALONG WITH THE FY-87 FUNDING, WAS APPROVED IN MARCH 1987.

TASK 4 (TECHNICAL FINDINGS REPORT) AND TASK 5 (VALUE IMPACT ANALYSIS REPORT) HAVE BEEN COMPLETED. THE TECHNICAL FINDINGS DOCUMENT HAS BEEN COMPLETED AND PUBLISHED AS NUREG/CR-5210 IN AUGUST 1988. THE VALUE/IMPACT ANALYSIS INCLUDING THE ENVIRONMENTAL IMPACT ASSESSMENT WORK HAS BEEN COMPLETED AND PUBLISHED AS NUREG/CR-5234 IN FEBRUARY 1989.

THE OFFICE OF NRR PREPARED AN INTEGRATED DRAFT GENERIC LETTER TO ADDRESS STAFF CONCERNS ON SERVICE WATER SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPMENT, WHICH WAS RAISED BY GI-51, AEOD CASE STUDY AND BY REGION II OFFICE. EIB OF DSIR WORKED VERY CLOSELY WITH NRR AND AEOD ON THIS PROPOSED GENERIC LETTER.

THE STAFF MET WITH CRGR ON 05/10/89, WITH ACRS SUBCOMMITTEE ON AUXILIARY AND SECONDARY SYSTEMS ON 05/24/89, AND

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 51

TITLE: IMPROVING THE RELIABILITY OF OPEN CYCLE SERVICE WATER SYSTEMS

S T A T U S

WITH ACRS FULL COMMITTEE ON 06/08/89. WITH SOME COMMENTS AND EXCEPTIONS, CRGR AND ACRS BASICALLY ENDORSED THE PROPOSED GENERIC LETTER. A REVISED GENERIC LETTER WHICH ADDRESSED ALL THEIR COMMENTS AND EXCEPTIONS WAS SENT TO CRGR ON 06/20/89 AND WAS SUBSEQUENTLY APPROVED. THE GENERIC

LETTER (GL 89-13) WAS ISSUED ON 07/18/89. WITH THE ISSUANCE OF GL 89-13, GI-51 IS CONSIDERED RESOLVED. A LETTER NOTIFYING THE CLOSE OUT OF GI-51 WAS SENT FROM E. BECKJORD TO J.M. TAYLOR ON 08/10/89.

AFFECTED DOCUMENTS

NONE.

PROBLEM/RESOLUTION

NONE. GI-51 WAS RESOLVED AND CLOSED OUT.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
TAP APPROVED BY DSI DIRECTOR	01/84	--	01/84
REVISED TAP APPROVED AND ISSUED	10/84	--	10/84
PROPOSALS SOLICITED	07/84	--	10/84
PNL RESPONSE TO RFP AND SOW	12/84	--	12/84
REVISE SOW TO INCORPORATE RES TASK V	05/85	--	05/85
PROPOSAL EVALUATED AND ACCEPTED.	02/85	--	08/85
CONTRACT SCHEDULE	03/85	--	10/85
DRAFT TECHNICAL FINDINGS REPORT FROM CONTRACTOR	07/86	--	04/88
STAFF REVIEW OF DRAFT TECHNICAL FINDINGS REPORT	08/86	--	06/88
STAFF REVIEW OF FINAL NUREG/CR TECHNICAL FINDINGS REPORT	09/86	--	07/88
ENVIRONMENTAL IMPACT ASSESSMENT (EIA) WORK COMPLETED	06/88	--	08/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 51

TITLE: IMPROVING THE RELIABILITY OF OPEN CYCLE SERVICE WATER SYSTEMS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ISSUANCE OF TECHNICAL FINDINGS DOCUMENT (NUREG/CR-5210)	08/88	--	08/88
DRAFT VALUE/IMPACT REPORT ANALYSIS	10/87	--	01/89
ISSUANCE OF V/I REPORT (NUREG/CR-5234)	02/89	--	02/89
GL PACKAGE TO CRGR (29)	12/87	--	05/89
CRGR PACKAGE OF GL COMPLETED	01/88	--	07/89
ISSUE GL	04/89	--	07/89

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 12

ISSUE NUMBER: 57 TITLE: EFFECTS OF FIRE PROT. SYS. ACTUATION ON SAFETY-RELATED EQUIP.
 IDENTIFICATION DATE: 09/82C PRIORITIZATION DATE: 06/88C TYPE: GSI PRIORITY: M
 TASK MANAGER: D. BASDEKAS OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 07/92
 WORK AUTHORIZATION: MEMO TO B. SHERON FROM E. BECKFORD DATED 6/8/88.

FIN	CONTRACTOR	CONTRACT TITLE
B6601	SNL	INADVERTENT ACTUATION OF FIRE PROTECTION SYSTEMS (GI-57). PRELIMINARY/ SCOPING STUDY ONLY
L1220	INEL	GENERIC ISSUE 57, "EFFECTS OF FIRE PROTECTION SYSTEM ACTUATION ON SAFETY-RELATED EQUIPMENT"
L1334	SNL	GENERIC ISSUE 57, "EFFECTS OF FIRE PROTECTION SYSTEM ACTUATION ON SAFETY-RELATED EQUIPMENT"

WORK SCOPE

REFINE PRIORITIZATION RISK ANALYSIS TO DETERMINE WHETHER A FIX MIGHT BE JUSTIFIED. (FIN B6601)	PERFORM FULL FLEDGED EVALUATION (PRA & V/I ANALYSIS) FOR RESOLUTION WITH TECHNICAL ASSISTANCE THROUGH (FIN L1120).
--	--

STATUS

PER 8/10/88 MEMO FROM W. HGUSTON TO W. MORRIS. ADDITIONAL RISK ANALYSIS WILL BE PERFORMED TO DETERMINE WHETHER OR NOT THE RISK ESTIMATED CAN SUPPORT THE EXPENDITURE OF ADDITIONAL	RESOURCES TO RESOLVE THIS GENERIC ISSUE ON A HIGHER PRIORITY BASIS. TAP HAS BEEN DEVELOPED AND APPROVED. RESOLUTION EFFORT TO COMMENCE ON A HIGH PRIORITY BASIS.
--	--

AFFECTED DOCUMENTS

*** TO BE DETERMINED ***

PROBLEM/RESOLUTION

SNL REPORT INDICATES THAT ISSUE IS SAFETY SIGNIFICANT AND NEW REQUIREMENTS NEED TO BE DEVELOPED.

MILESTONES

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DEVELOP PRA SCOPE OF WORK	10/88	--	10/88

AS OF FY89 QUARTER 4

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 57

TITLE: EFFECTS OF FIRE PROT. SYS. ACTUATION ON SAFETY-RELATED EQUIP.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE RISK ANALYSIS	02/89	--	04/89
DEVELOP TAP	02/89	--	06/89
PRELIMINARY DISCUSSION OF DRAFT STATEMENT OF WORK WITH CONTRACTOR(S)	06/89	--	06/89
DEVELOP SOW AND WORK AUTHORIZATION	07/89	--	07/89
ISSUE CONTRACTS	08/89	--	08/89
DRAFT CONTRACTOR REPORT TO RES (INEL)	02/91	02/91	--
DRAFT CONTRACTOR REPORT TO RES (SNL)	--	--	--
FINAL CONTRACTOR REPORT TO RES (INEL)	05/91	05/91	--
FINAL CONTRACTOR REPORT TO RES (SML)	--	--	--
REG. ANALYSIS AND CRGR/ACRS PACKAGES PREPARED	07/91	07/91	--
ISSUE FOR PUBLIC COMMENT	11/91	11/91	--
CRGR/ACRS REVIEW AND APPROVAL	05/92	05/92	--
ISSUE CLOSE OUT MEMO FROM RES DIRECTOR TO EDO	06/92	06/92	--
ISSUE GENERIC LETTER (NRR)	07/92	07/92	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 67.5.1 TITLE: REASSESSMENT OF SGTR DESIGN BASIS
 IDENTIFICATION DATE: 06/83C PRIORITIZATION DATE: 03/85C TYPE: LI PRIORITY:
 TASK MANAGER: J. HOPENFELD OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: NONE RESOLUTION DATE: 04/90
 WORK AUTHORIZATION: MEMO TO R. BERNERO FROM H. DENTON DATED 3/25/85

FIN	CONTRACTOR	CONTRACT TITLE
A6879 B0832	INEL ORNL	RISK ASSOCIATED WITH A SPECTRUM OF SGTR ACCIDENTS STEAM GENERATOR TUBE RUPTURE

WORK SCOPE

COMPLETE THE EXPERIMENTS ON IODINE PARTITION COEFFICIENTS; EVALUATE THE VALIDITY OF SRP IODINE SPIKE REQUIREMENTS IN LIGHT OF RECENT DATA USING BEST ESTIMATE MODELS. IDENTIFY MODIFICATIONS TO THE SRP.

STATUS

THE ORNL EXPERIMENTS TO DETERMINE THE IODINE PARTITION COEFFICIENT ARE COMPLETE. THE INEL CONTRACT TO EVALUATE THE RISK ASSOCIATED WITH SGTR ACCIDENTS WAS ISSUED 3/10/88 AND T/A WORK IS NOW UNDER WAY.

AFFECTED DOCUMENTS

SRP

PROBLEM/RESOLUTION

NONE.

MILESTONES

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PREPARE DRAFT TAP	06/87	--	06/87
REVISE DRAFT TAP TO INCLUDE PROBABILISTIC ASSESSMENT OF SGTR	10/87	--	12/87
MANAGEMENT APPROVAL OF REVISED TAP	11/87	--	12/87

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 67.5.1

TITLE: REASSESSMENT OF SGTR DESIGN BASIS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE WORK PLAN AND CONTRACT PROPOSAL	11/87	--	12/87
ISSUE CONTRACT TO INEL	01/88	--	03/88
DRAFT REPORT FROM INEL AND ORNL TO RES	06/88	--	07/88
FINAL REPORT FROM INEL	08/88	--	08/88
FINAL REPORT FROM ORNL	09/88	--	09/88
FINAL REPORT FROM IWEL ON IODINE SPIKING	01/89	--	01/89
FINAL REPORT FROM INEL ON IODINE SPIKING DURING SGTR	07/89	--	09/89
DRAFT REGULATORY ANALYSIS PREPARED	09/88	--	09/89
CRGR PACKAGE TO DEPUTY DIRECTOR	10/88	10/89	--
CRGR PACKAGE REVISED. SENT TO RES DIRECTOR FOR APPROVAL	12/88	12/89	--
CRGR AND ACRS MEETINGS	02/89	03/90	--
ISSUE CLOSEOUT MEMO	03/89	04/90	--

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 16

ISSUE NUMBER: 67.5.2

TITLE: REEVALUATION OF SGTR DESIGN BASIS

IDENTIFICATION DATE: 06/83C

PRIORITIZATION DATE: 03/85C

TYPE: LI

PRIORITY:

TASK MANAGER: J. HOPENFELD

OFFICE/DIVISION/BRANCH: RES /DSIR/R?SI

ACTION LEVEL: ACTIVE

STATUS: 5

TAC NUMBERS: NONE

RESOLUTION DATE: 04/90

WORK AUTHORIZATION: MEMO TO R. BERNERO FROM H. DENTON DATED 3/25/85.

FIN

NONE

CONTRACTOR

NONE

CONTRACT TITLE

NONE

WORK SCOPE

CONDUCT AN ANALYSIS TO DETERMINE WHETHER
STEAM GENERATOR OVERFILL AND MULTIPLE TUBE

RUPTURE SHOULD BE CONSIDERED AS DESIGN BASIS
ACCIDENTS.

STATUS

BEING RESOLVED AS PART OF GI 67.5.1.

AFFECTED DOCUMENTS

*** TO BE DETERMINED ***

PROBLEM/RESOLUTION

BECAUSE OF THE FEBRUARY 25, 1989, TUBE FAILURE AT
NORTH ANNA 1, A PROJECT HAS BEEN INITIATED AT BCL TO DETER-
MINE WHETHER A CREDIBLE MECHANISM EXISTS FOR MULTIPLE TUBE
RUPTURE FROM FAILED PLUGS.

MILESTONES

PREPARE DRAFT TAP
REVISE DRAFT TAP TO INCLUDE
PROBABILISTIC ASSESSMENT OF SGTR

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
06/87	--	06/87
10/87	--	12/87

AS OF FY89 QUARTER 4

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 67.5.2 TITLE: REEVALUATION OF SGTR DESIGN BASIS

M I L E S T O H E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
MANAGEMENT APPROVAL OF REVISED TAP	11/87	--	12/87
COMPLETE WORK PLAN AND CONTRACT PROPOSAL	11/87	--	12/87
ISSUE CONTRACT TO INEL	01/88	--	03/88
DRAFT REPORT FROM INEL TO RES	06/88	--	07/88
FINAL REPORT FROM INEL TO RES	08/88	--	08/88
FINAL REPORT FROM INEL ON IODINE SPIKING	01/89	--	01/89
FINAL REPORT FROM INEL ON IODINE SPIKING DURING SGTR	07/89	--	09/89
BCL DRAFT SCOPING STUDY REPORT ON MULTIPLE TUBE FAILURE	07/89	--	07/89
INEL RECOMMENDATIONS ON ACTIONS REQUIRED TO RESOLVE MULTIPLE TUBE RUPTURE ISSUES	08/89	--	09/89
DRAFT REGULATORY ANALYSIS PREPARED	09/89	--	09/89
CRGR PACKAGE ISSUED FOR COMMENT	10/88	11/89	--
CRGR PACKAGE REVISED. SENT TO RES DIRECTOR FOR APPROVAL	12/88	01/90	--
CRGR AND ACRS MEETINGS	02/89	03/90	--
ISSUE CLOSEOUT MEMO	03/89	04/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 70 TITLE: PORV AND BLOCK VALVE RELIABILITY
 IDENTIFICATION DATE: 06/83C PRIORITIZATION DATE: 05/84C TYPE: GSI PRIORITY: M
 TASK MANAGER: R. KIRKWOOD OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 11/89
 WORK AUTHORIZATION: MEMO TO R. MATTSO FROM H. DENTON DATED 5/14/84.

FIN	CONTRACTOR	CONTRACT TITLE
A3807 B0828	BNL ORNL	ESTIMATION OF RISK REDUCTION FROM IMPROVED PORV(GSI-70) OP. EXPER. REV. OF PORV'S & BLOCK VALVES FAILURES IN NUC. POWER PLANTS

W O R K S C O P E

IDENTIFY FUNDAMENTAL SAFETY REQUIREMENTS OF THE PORV'S AND BLOCK VALVES. PRA'S WILL BE USED TO DETERMINE CORE-MELT FREQUENCIES AND RISK CONTRIBUTED BY MALFUNCTION OF PORV AND BLOCK VALVES ASSOCIATED WITH VARIOUS ACCIDENTS AND PLANT PROTECTION FEATURES INCLUDING SGTR EVENTS, LTOP, PORV-LOCA, RCS VENTS AND BTP RSB 5-1. BASED ON THE RESULTS FROM BNL PRA WORK, MAXIMUM RISK REDUCTION WILL BE EVALUATED. THE POTENTIAL

FOR INCREASED PLANT AVAILABILITY AND THE PRA RESULTS WILL BE USED TO IDENTIFY THE AMOUNT OF MONEY THAT COULD BE JUSTIFIED FOR PORV/BLOCK VALVE IMPROVEMENTS. POTENTIAL IMPROVEMENTS WILL BE IDENTIFIED IN THE AREAS OF DESIGN, EQUIPMENT QUALIFICATIONS, QA AND QC, MAINTENANCE PROGRAMS, TECHNICAL SPECIFICATIONS, AND TESTING REQUIREMENTS.

S T A T U S

TAP WAS ISSUED ON 4/30/85. A REPORT TO THE COMMISSION ON THE STATUS OF STAFF WORK WAS ISSUED ON 2/18/86. AN ORNL REPORT, "OPERATING EXPERIENCE REVIEW AND ANALYSIS OF FAILURES OF PILOT-OPERATED RELIEF VALVES AND BLOCK VALVES IN NUCLEAR POWER PLANTS," DATED 10/87 WAS ISSUED AS NUREG/CR-4692. THIS REPORT WAS EXPANDED TO INCLUDE RESPONSES TO NRC QUESTIONS DURING INTERVIEWS WITH FOUR PORV MANUFACTURERS CONDUCTED AT THEIR RESPECTIVE MANUFACTURING FACILITIES TO DISCUSS PORV PROBLEMS. A BNL REPORT, "ESTIMATION OF RISK REDUCTION FROM IMPROVED PORV RELIABILITY IN PWRs," DATED 3/88 WAS ISSUED AS NUREG/CR-4999. A NUREG IN

LIEU OF A SERIES OF LETTER REPORTS, ONE FOR EACH TASK, AS WAS ORIGINALLY SCHEDULED IN THE TAP HAS BEEN COMPLETED. STAFF REPORT "NUREG-1316, EVALUATION OF POWER OPERATED RELIEF VALVE RELIABILITY IN PWR NUCLEAR POWER PLANTS," IS A PART OF THE RESOLUTION PACKAGE FOR GI-70. A MANAGEMENT DECISION WAS MADE TO COMBINE THE RESOLUTION PACKAGES FOR GI-70 AND GI-94. A COMBINED GENERIC LETTER WILL SIMPLIFY IMPLEMENTATION OF THE RESOLUTIONS OF BOTH ISSUES FOR THE NRC AND LICENSEES. NRR CONCURRENCE RECEIVED ABOUT 06/20/89. CRG AGREED WITH COMBINED GI-70 AND 94 PACKAGE WITH MINOR REVISIONS.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 70

TITLE: PORV AND BLOCK VALVE RELIABILITY

AFFECTED DOCUMENTS

COMBINED GENERIC LETTER FOR GI-70 AND GI-94. MINOR REVISIONS TO SRP'S 3.2.2, 5.2.2, AND 5.4.7.

PROBLEM/RESOLUTION

NONE. CRGR AGREED WITH GI-70 AND 94 PACKAGE WITH MINOR REVISIONS ON 08/23/89.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DRAFT TAP TO DSI DIRECTOR	12/84	--	12/84
DRAFT TAP APPROVED BY DSI DIRECTOR AND FORWARDED TO OTHER DIVISION DIRECTORS FOR COMMENT	01/85	--	02/85
INCORPORATE COMMENTS IN TAP	03/85	--	03/85
FINAL TAP APPROVED BY DSI DIRECTOR AND FORWARDED TO DST	06/84	--	04/85
REPORT TO THE COMMISSION ON STATUS OF THE STAFF WORK ON GI 70	07/85	--	02/86
ASSEMBLE BACKGROUND INFORMATION ON PORVS AND BLOCK VALVES	09/85	--	10/86
DETERMINE FUNDAMENTAL SAFETY REQUIREMENTS OF PORVS AND BLOCK VALVES	12/85	--	11/86
IDENTIFY THE POTENTIAL IMPROVEMENT ON PORV/BLOCK VALVES	11/85	--	02/87
IDENTIFY THE RECOMMENDED IMPROVEMENTS BASED ON THE VALUE IMPACT ASSESSMENT AND OTHER SAFETY CONSIDERATIONS	04/86	--	03/87
ESTIMATION OF RISK REDUCTION FROM IMPROVED PORV/BLOCK VALVE RELIABILITY	01/86	--	09/87
NUREG COMPLETED	05/87	--	06/88
PREPARE DTR PACKAGE	03/86	--	09/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 70

TITLE: POR/ AND BLOCK VALVE RELIABILITY

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DIVISION DEPUTY DIRECTOR REVIEW OF DTR COMPLETED	04/86	--	11/88
ACRS REVIEW OF DTR COMPLETED	06/86	--	02/89
CONCURRENCE ON DTR COMPLETED	05/86	--	06/89
DTR PACKAGE TO CRGR (29,53)	06/86	--	07/89
CRGR REVIEW OF DTR COMPLETED	07/86	--	08/89
EDG APPROVAL OF DTR	01/87	10/89	--
COMMISSION PAPER	12/87	11/89	--
CLOSE OUT ISSUE (ISSUE GL)	10/88	11/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 75 TITLE: GENERIC IMPLICATIONS OF ATWS EVENTS AT SALEM - QA
 IDENTIFICATION DATE: 06/83C PRIORITIZATION DATE: 10/83C TYPE: GSI PRIORITY:
 TASK MANAGER: O. GORMLEY OFFICE/DIVISION/BRANCH: RES /DRA /ARGI ACTION LEVEL: ACTIVE STATUS: NR
 TAC NUMBERS: RESOLUTION DATE: 11/90
 WORK AUTHORIZATION: MEMO FROM H. DENTON TO R. DEYOUNG, "SCHEDULE FOR
 RESOLVING & COMPLETING GENERIC ISSUE NO. 75," 10/19/83

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

THE RESOLUTION TO SUBTASK 1 OF GSI 75 IS TO BE
 ADDRESSED. REVISE REG. GUIDE 1.33 "QUALITY ASSURANCE
 PROGRAM REQUIREMENTS (OPERATIONS)" TO CONTAIN MORE
 DETAILED GUIDANCE FOR OPERATIONAL QA PROGRAMS. THE

STAFF WILL CONSIDER BACKFITTING THIS REG. GUIDE REVISION.
 THE WORK SCOPE OF TMI ITEMS I.B.1.1(6) AND I.B.1.1(7)
 RELATIVE TO THE REVISION OF REG. GUIDE 1.33 HAS BEEN
 SUBSUMED BY THIS GENERIC ISSUE SUBTASK.

STATUS

THE CRGR PACKAGE IS IN CONCURRENCE. IT WAS CONCURRED IN BY THE RES DIRECTOR ON 09/26 AND FORWARDED TO OGC.

AFFECTED DOCUMENTS

ANS 3.2 (1982)

PROBLEM/RESOLUTION

THE SCHEDULE HAS BEEN REVISED TO REFLECT THE CURRENT
 STATUS AND TO PROVIDE MORE APPROPRIATE MANAGEMENT REVIEW
 TIMES.

MILESTONES

ISSUED MEMO TO EDO
 SUBSUMING TMI ITEM I.B.1.1,
 SUBTASKS 6 AND 7

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
07/84	--	07/84

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 75

TITLE: GENERIC IMPLICATIONS OF ATWS EVENTS AT SALEM - QA

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ISSUE DRAFT R.G. 1.33 FOR DIVISION AND REGION COMMENTS	02/85	--	02/85
REISSUE DRAFT R.G. 1.33 FOR DIVISION AND REGION COMMENTS	01/86	--	02/86
ISSUE DRAFT R.G. 1.33 FOR DIVISION AND REGION COMMENTS	02/88	--	01/89
RESOLVE COMMENTS AND PREPARE REGULATORY ANALYSIS PACKAGE FOR CRGR REVIEW	04/88	--	08/89
ACRS REVIEW COMPLETED	10/88	12/89	--
ISSUE FRN ON AVAILABILITY OF 3RD PROPOSED RG 1.33, REV. 3 FOR COMMENT	12/88	02/90	--
END OF 60-DAY PUBLIC COMMENT PERIOD	03/89	05/90	--
RESOLVE COMMENTS AND FINALIZE	05/89	07/90	--
EDO APPROVAL	01/90	09/90	--
ISSUE FRN ON ISSUANCE AND AVAILABILITY OF R.G. 1.33, REV. 3	01/90	10/90	--
ISSUE CLOSEOUT MEMO TO RES DIRECTOR	01/90	11/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 79 TITLE: UNANALYZED RX VESSEL THERMAL STRESS DURING NATURAL CONVECTION COOLING
 IDENTIFICATION DATE: 06/83C PRIORITIZATION DATE: 07/83C TYPE: GSI PRIORITY: M
 TASK MANAGER: J. PAGE OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 01/90
 WORK AUTHORIZATION: MEMO TO R. VOLLMER FROM H. DENTON DATED 7/25/83.
 NRR FY-84 OPERATING PLAN, (APPENDIX G).

FIN	CONTRACTOR	CONTRACT TITLE
A3822	BNL	UNANALYZED REACTOR VESSEL THERMAL STRESS

WORK SCOPE

- (1) PWR NSSS WILL PROVIDE THERMAL-HYDRAULIC, HEAT CONDUCTION AND ASME III STRESS ANALYSIS OF THE REACTOR VESSEL.
- (2) BNL WILL VERIFY ACCEPTABILITY OF THERMAL ANALYSES.
- (3) EIB WILL VERIFY ACCEPTABILITY OF STRESS ANALYSES, EVALUATE RESULTS, AND DETERMINE RESOLUTION OF THE ISSUE.

STATUS

IN RESPONSE TO ACRS COMMENTS, A DRAFT INFORMATION GENERIC LETTER WAS ADDED AS AN ENCLOSURE TO THE CLOSE OUT MEMORANDUM.

AFFECTED DOCUMENTS

POTENTIAL SRP CHANGE AND/OR NUREG REPORTS.

PROBLEM/RESOLUTION

THE ADDITION OF 5 MILESTONES FOR NRR AND CRGR REVIEW AND CONCURRENCE RESULTED IN A 5-MONTH SLIPPAGE OF THE FINAL MILESTONE.

MILESTONES

MILESTONES	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
MEETING WITH B&W TO CLARIFY ISSUE	11/83	--	03/84

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 79

TITLE: UNANALYZED RX VESSEL THERMAL STRESS DURING NATURAL CONVECTION COOLING

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
RECEIPT OF INITIAL B&W ANALYSES	08/84	--	12/84
INITIATE CONTRACT AND COMMENCE REVIEW	09/85	--	09/85
COMPLETION OF CONTRACTOR AUDIT CALC FOR B&W DESIGN	05/86	--	07/87
NRC MEETING WITH CONTRACTOR	04/87	--	07/87
ISSUE RAI/MEETING REQUEST TO B&W OWNERS GROUP	02/87	--	10/87
PRELIMINARY TECHNICAL EVAL. OF B&W DESIGN FOR STAFF REVIEW	07/86	--	12/87
MEETING WITH B&W OWNERS GROUP	04/87	--	06/88
B&W FORMAL RESPONSE TO MEETING QUESTIONS	06/87	--	06/88
FINAL TECHNICAL EVALUATION OF B&W DESIGN COMPLETED	08/86	--	05/89
PROPOSED CLOSEOUT MEMO TO ACRS	09/86	--	07/89
ACRS REVIEW COMPLETE	06/89	--	08/89
PROPOSED CLOSEOUT MEMO TO NRR FOR CONCURRENCE	09/89	--	09/89
NRR CONCURRENCE ON CLOSEOUT MEMO	10/89	10/89	--
PROPOSED CLOSEOUT MEMO TO CRGR FOR CONCURRENCE	10/89	10/89	--
CRGR CONCURRENCE ON CLOSEOUT MEMO	11/89	11/89	--
FINAL CLOSEOUT MEMO	07/89	12/89	--
NRR ISSUANCE OF GENERIC LETTER	01/90	01/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 83 TITLE: CONTROL ROOM HABITABILITY
 IDENTIFICATION DATE: 11/83C PRIORITIZATION DATE: 06/84C TYPE: GSI PRIORITY:
 TASK MANAGER: C. FERRELL OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB ACTION LEVEL: ACTIVE STATUS: NR
 TAC NUMBERS: RESOLUTION DATE: 03/90
 WORK AUTHORIZATION: MEMO FOR H. DENTON FROM W. DIRCKS, DATED 8/15/83.

FIN	CONTRACTOR	CONTRACT TITLE
A2328	ANL	IN-PLANT REVIEWS ON CONTROL ROOM HABITABILITY
A2334	ANL	IN-PLANT REVIEWS ON CONTROL ROOM HABITABILITY
B2929	PNL	MATH. MODELS CONTROL ROOM HABITABILITY
D2096	SAIC	CONTROL ROOM VULNERABILITIES

W O R K S C O P E

ASSESS ADEQUACY OF HABITABILITY CRITERIA, NRR REVIEW, PLANT SYSTEMS AND COMPONENTS, AND TESTING PROCEDURES RELATIVE TO CONTROL ROOM HABITABILITY, INCLUDING THOSE AREAS OF ACRS CONCERN. A FINAL REPORT WILL BE PREPARED

SUMMARIZING RESULTS AND PROVIDING RECOMMENDATIONS
 TWO TASKS (DEVELOP MODELS OF CHALLENGES TO HABITABILITY AND REVIEW PROCEDURES) HAVE BEEN ADDED

S T A T U S

A PROGRAM OF SURVEY VISITS TO A TOTAL OF 11 PLANTS WAS INITIATED IN SEPTEMBER 1985. VISITS TO 11 OPERATING PLANTS HAVE BEEN COMPLETED. THE FINAL REPORT WAS ISSUED.

AFFECTED DOCUMENTS

SRP 6.4, 9.4.1, 12.3.6.5.1, 2.3, 2.2.1-2.2.3, 9.5.1, RGS 1.78, 1.95, 1.29, 1.52, 1.101, 1.140; NUREG-0737, ITEM III.D.3.4, II.B.2, 10 CFR 50: 50.48, APPENDIX R TO 10 CFR 50; NUREG-0700; NUREG-0737, SUPPLEMENT 1.

PROBLEM/RESOLUTION

THE ORIGINAL TAP FOR GSI 83 CONTAINED A NUMBER OF SUBTASKS FOR IMPLEMENTATION OF THE RECOMMENDATIONS IN THE JUNE 1984 CONTROL ROOM HABITABILITY (CRH) REPORT. WORK ON IMPLEMENTATION OF THESE RECOMMENDATIONS HAS BEEN DELAYED DUE TO NRC CONCERNS OVER: (1) LACK OF RESOURCES TO PERFORM INDEPENDENT VERIFICATION OF ACCEPTABILITY OF APPLICANTS' SUBMITTALS AND DEGREE OF SAFETY GAIN TO BE ACHIEVED; (2) RELUCTANCE TO DEVOTE RESOURCES TO UPDATING SRP'S AND PLANT ORDERS; AND (3) PERTINENT REG GUIDES IN THE ABSENCE OF NEW IMPLEMENTATION RECOMMENDATIONS THAT MIGHT BE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 83

TITLE: CONTROL ROOM HABITABILITY

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

INTERPRETED AS BACKFITTING WITHOUT PROPER BACKFIT ANALYSIS. THE IMPLEMENTATION OF THE RECOMMENDATIONS IN THE JUNE 1984 REPORT REEVALUATED IN LIGHT OF THE ABOVE CONCERNS. ADDITIONAL DELAY WAS ENCOUNTERED IN PROVIDING REPORT TO NRC WHICH IS NOW ISSUED. DELAY IN ISSUING SAIC CONTRACT DUE TO CONFLICT OF INTEREST, SCOPE AND OBJECTIVES HAS BEEN RESOLVED. THE REVISED TASK ACTION PLAN WILL PROVIDE RESEARCH SUPPORT TO NRR IN THE PREPARATION OF THE GENERIC LETTER ON CONTROL ROOM HABITABILITY. RESEARCH WILL PROVIDE NEW DOSE CONVERSION METHODOLOGY AND ICRP-30 DOSE CONVERSION FACTOR FOR THYROID TO WHOLE BODY DOSES. RESEARCH WILL PROVIDE A SUMMARY REPORT SUPPORTING THE RESOLUTION OF GI-83 BY THE ISSUANCE OF THE GENERIC LETTER.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
WORKSHOP ON CRH	11/83	--	11/83
AWARD OF CONTRACT	02/84	--	01/84
VISIT TO INITIAL PLANT	03/84	--	05/84
REPORT ON CRH CRITERIA TO NRR DIRECTOR	06/84	--	06/84
COMPLETION OF CONTRACTOR VISITS TO OPERATING AND NTOL PLANTS	08/84	--	08/84
SOW WRITTEN FOR 12-PLANT SURVEY AND GENERIC STUDIES	11/84	--	10/84
RFP SENT TO POTENTIAL CONTRACTOR(S)	12/84	--	11/84
RECEIPT OF PROPOSAL(S)	02/85	--	03/85
INITIATE PROGRAM TO VISIT 12 ADDITIONAL OPERATING PLANTS	09/85	--	09/85
COMPLETE VISIT TO 11 OPERATING REACTORS	09/86	--	01/87

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 83

TITLE: CONTROL ROOM HABITABILITY

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ISSUE TRANSFER MEMO TO RES	03/87	--	12/87
SOW SENT TO PNL FOR "MATHEMATICAL MODELS OF CONTROL ROOM HABITABILITY SYSTEMS EFFECTIVENESS" (FIN B2929-8)	04/88	--	04/88
SOW SENT TO SAIC FOR "CONTROL ROOM VULNERABILITIES" FIN 020969	--	--	04/88
REQUEST FOR PROCUREMENT ACTION SENT TO CHANGE NRR CONTRACT WITH SAIC TO INCLUDE T/A IN MODELING CONTROL ROOM VULNERABILITIES (D2096)	05/88	--	05/88
RECEIPT OF PROPOSAL	06/88	--	06/88
DRAFT CODE FPF	10/88	--	11/88
DRAFT CODE EXTRAN	10/88	--	12/88
DRAFT REPORT ON TOXIC LEVELS	11/88	--	01/89
PNL CONTRACT EXTENDED ON "NO-COST BASIS" UNTIL 03/90	10/89	10/89	--
ISSUE SAIC CONTRACT	03/89	10/89	--
FINAL REPORTS ON MODELS STUDY	02/89	12/89	--
REVISE TASK ACTION PLAN	10/89	10/89	--
RECOMMENDED REVISED DOSE ASSESSMENT MODELS	09/89	11/89	--
GL TO ACRS/CRGR	10/89	12/89	--
NRR ISSUES GEN. LTR	12/89	01/90	--
ISSUE CLOSE OUT REPORT ON GI-83	03/90	03/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 84 TITLE: CE PLANTS WITHOUT PORVS
 IDENTIFICATION DATE: 11/83C PRIORITIZATION DATE: 02/85C TYPE: GSI PRIORITY:
 TASK MANAGER: R. WOODS OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS: NR
 TAC NUMBERS: RESOLUTION DATE: 02/90
 WORK AUTHORIZATION: MEMO TO R. BERNERO FROM H. DENTON DATED 2/27/85

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

PREPARE RESOLUTION PACKAGE

STATUS

THIS ISSUE HAD BEEN AWAITING FINAL RESOLUTION OF USI A-45 WITH RESPECT TO PORV REQUIREMENTS. USI A-45 HAS NOW BEEN SUBSUMED INTO THE IPE PROGRAM WITHOUT A SPECIFIED GENERIC CORRECTIVE ACTION THAT IMPACTS THIS ISSUE. THEREFORE, A

PACKAGE IS CURRENTLY IN THE CONCURRENCE PROCESS THAT CONSIDERS THE POSSIBLE OPTIONS FOR RESOLUTION AND RECOMMENDS RESOLUTION BY SUBSUMING THIS ISSUE INTO THE IPE PROCESS.

AFFECTED DOCUMENTS

NONE

PROBLEM/RESOLUTION

MANY DIVERSE OPINIONS ARE BEING EXPRESSED ALONG THE CONCURRENCE PATH, WHICH ARE CAUSING DELAYS. PACKAGE IS CURRENTLY AWAITING A DECISION BY THE RES DEPUTY DIRECTOR FOR GENERIC ISSUES.

MILESTONES

MILESTONES	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE DTR	12/88	--	12/88
PRESENTATION TO MANAGEMENT RE: URGENT NEED FOR ACTION (PALO VERDE 3 EVENT)	07/89	--	07/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 84

TITLE: CE PLANTS WITHOUT PORVS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
RES OFFICE DIRECTOR CONCURRENCE	01/89	10/89	--
NRR CONCURRENCE	01/89	11/89	--
CRGR REVIEW	03/89	12/89	--
ACRS REVIEW	04/89	01/90	--
EDO APPROVAL	05/89	02/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 87 TITLE: FAILURE OF HPCI STEAM LINE WITHOUT ISOLATION
 IDENTIFICATION DATE: 01/84C PRIORITIZATION DATE: 09/85C TYPE: GSI PRIORITY: H
 TASK MANAGER: R. WOODS OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 11/89
 WORK AUTHORIZATION: MEMO TO R. BERNERO FROM H. DENTON DATED 9/26/85

FIN	CONTRACTOR	CONTRACT TITLE
B5529	INEL	FAILURE OF HPCI STEAM LINE WITHOUT ISOLATION

WORK SCOPE

DETERMINE TYPES/SIZES/MODELS OF VALVES INVOLVED IN HPCI, RCIC, RWCU SYSTEMS WHERE DOWNSTREAM BREAK AND WOULD CAUSE AN UNACCEPTABLE HIGH RISK OF CORE-MELT IF BREAK NOT ISOLATED (DUE TO INVENTORY LOSS AND/OR OTHER SAFETY-RELATED EQUIPMENT EXPOSED TO ENVIRONMENT BEYOND ITS QUALIFICATION). DEVELOP NEW LICENSING CRITERIA TO REDUCE PROBABILITY IF VALVE FAILURE TO AN ACCEPTABLE LEVEL, IF NEEDED.

STATUS

THE RES/DE/EMEB CONTRACTOR (FIN A6857, INEL) HAS COMPLETED VALVE-CLOSURE-DURING-FLOW TESTS AT FULL WATER FLOW CONDITIONS FOR TWO REPRESENTATIVE VALVES IN THE RWCU SYSTEM. FURTHER RWCU VALVE TEST ARE PLANNED THIS FY. SIMILAR TESTS FOR STEAM FLOW THRU REPRESENTATIVE OF HPCI AND RCIC STEAM LINES ARE ALSO PLANNED FOR THIS FY BY INEL, SPONSORED BY A NEW CONTRACT FROM RES/DSIR/RPSIB (FIN B5529). SUBCONTRACT FOR SECOND SERIES OF TEST (ADDITIONAL RWCU VALVE TESTS IN WATER AND HPCI TURBINE SUPPLY LINE IN STEAM) AWARDED TO KWU-BECHTEL ALLIANCE. TESTS ARE BEING RUN DURING SEPTEMBER AND ARE EXPECTED TO BE COMPLETED DURING OCTOBER 1989 NEAR FRANKFURT, GERMANY, AT KWU FACILITY. ISSUE WILL BE "RESOLVED" THROUGH REQUIREMENTS OF GENERIC LETTER 89-10 ISSUED 06/28/89 BY MEB/RES. RESOLUTION MEMORANDUM IS CURRENTLY IN THE CONCURRENCE CHAIN.

AFFECTED DOCUMENTS

GENERIC LETTER 89-10 ISSUED UNDER GSI II.E.6.1 ON JUNE 28, 1989.

PROBLEM/RESOLUTION

PRELIMINARY ANALYSIS OF TEST DATA FROM THE COMPLETED HEAT-SATURATED-WATER-FLOW BLOWDOWN TESTS HAVE SHOWN THAT SIGNIFICANT CONCERNS MAY EXIST WITH AN UNDETERMINED NUMBER OF PRESENTLY IN-SERVICE VALVES AND WITH THE DIAGNOSTIC EQUIPMENT CURRENTLY IN USE BY THE INDUSTRY. A NUMBER OF MEETINGS HAVE BEEN HELD WITH THE CONTRACTOR, INCLUDING INDUSTRY REPRESENTATIVES AT SOME OF THE MEETINGS, TO DISCUSS

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 87

TITLE: FAILURE OF HPCI STEAM LINE WITHOUT ISOLATION

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

THESE PROBLEMS. GENERIC LETTER 89-10 WAS ISSUED, REQUIRING LICENSEE CORRECTION OF VALVE-RELATED PROBLEMS, INCLUDING BUT NOT LIMITED TO THIS GI.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
SEND LICENSING NEED LETTER TO RES	03/86	--	03/86
RECEIVE REPLY	04/86	--	04/86
RECEIVE RES CONTRACTOR REPORT IDENTIFYING VALVES	06/86	--	06/86
MEET WITH RES CONTRACTOR TO DETERMINE NEXT PHASE OF PROGRAM	07/86	--	07/86
RES CONTRACTOR RECEIVES VALVE QUALIFICATION DATA FROM SELECTED LICENSEES	09/86	--	10/86
RES CONTRACTOR MAKES RECOMMENDATION FOR NEXT PHASE OF PROGRAM	11/86	--	11/86
DEVELOP TAP TO CARRY OUT RECOMMENDATION	12/86	--	08/87
MEET WITH INEL TO FINALIZE VALVE TESTING PROGRAM	04/87	--	04/87
VALVE TESTING PROGRAM SUBMITTED BY INEL	07/87	--	10/87
DRAFT REG. ANALYSIS	03/89	--	03/89
GENERIC LETTER TO NRR	05/89	--	04/89
INTERIM REPORT ISSUED DATA FROM FIRST TWO VALVE TEST	05/89	--	07/89
PACKAGE TO ACRS	01/88	--	10/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 87

TITLE: FAILURE OF HPCI STEAM LINE WITHOUT ISOLATION

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE VALVE TESTING BY INEL	03/89	10/89	--
DIVISION DIRECTOR CONCURS WITH RESOLUTION PACKAGE (STATING ISSUE RESOLVED BY 06/28/89 ISSUANCE OF GENERIC LETTER 89-10).	11/89	11/89	--
CLOSE OUT TO EDO	01/88	11/89	--
ISSUE CONTRACTOR REPORT ON TEST RESULTS	01/90	01/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 94 TITLE: ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS
 IDENTIFICATION DATE: 08/84C PRIORITIZATION DATE: 07/85C TYPE: GSI PRIORITY: H
 TASK MANAGER: E. THROM OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 11/89
 WORK AUTHORIZATION: MEMO TO R. BERNERO FROM H. DENTON DATED 7/23/85.

FIN	CONTRACTOR	CONTRACT TITLE
B2998	PNL	LOW TEMP OVERPRESS PROT SYS EVAL FOR PWRS

WORK SCOPE

EVALUATE CURRENT OPERATING DATA, APPLYING STS TO ALL SYSTEMS, UPDATING LTOP SET-POINTS TO CURRENT APPENDIX G CURVES, PROHIBITING OPERATION WITH EITHER LTOP TRAIN CUT OF SERVICE OR HPI PUMP IN SERVICE WHILE WATER

SOLID, LIMITING START OF THE REACTOR COOLANT PUMP, USING RHR RELIEF VALVES, REQUIRING THE LTOP TO BE "SAFETY-GRADE" AND VALUE/IMPACT OF THESE ALTERNATIVES.

STATUS

A REVIEW OF LER DATA, AND MEETINGS WITH OWNERS' GROUPS INDICATED THAT LICENSEES ARE AWARE OF THE NEED TO UPDATE LTOP SET-POINTS TO ACCOUNT FOR SHIFT IN APPENDIX G CURVES DUE TO VESSEL EMBRITTELEMENT, AND REVISION 2 TO REG. GUIDE 1.99. TAP REVISED 8/87 TO REFLECT NEW NRR ORGANIZATION, TASK 4 THROUGH 7 AND THE TASK 11 VISA CALCULATIONS REASSIGNED TO PNL. REQUEST FOR MODIFIED 189 ON 8/25/87.

AUTHORIZED 2/10/88. REGULATORY ANALYSIS PACKAGE TO NRR, AEOD, OGC ON 12/7/88. ACRS SUBCOMMITTEE REVIEW 1/27/89, FULL COMMITTEE REVIEW 2/10/89. ACRS LETTER TO ZECH 2/16/89 CONCURS WITH STAFF RECOMMENDED RESOLUTIONS. OGC AND AEOD COMMENTS RESOLVED. CRGR RECOMMENDED IN FAVOR OF PROPOSED GENERIC LETTER WITH MODIFICATIONS ON 09/06/89.

AFFECTED DOCUMENTS

SRP 5.2.2, BTP 5-2, STS

PROBLEM/RESOLUTION

IMPLEMENTATION BEING COMBINED WITH GI-70 BECAUSE OF OVERLAP IN CONCERNS REGARDING PORV USE FOR SAFETY-RELATED FUNCTIONS. MILESTONE SCHEDULE REVISED TO REFLECT GI-70 FORMAT AND SCHEDULES. UNANTICIPATED PROBLEMS WITH THE EFFORT TO COMBINE ISSUES HAS RESULTED IN A TWO MONTH SLIPPAGE. RES STAFF HAS MET WITH NRR (OTSB) ON 1/19/89, 2/16/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 94

TITLE: ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

AND 3/16/89 TO DISCUSS INFORMAL COMMENTS RECEIVED FROM OTSB ON 1/19/89 AND 3/1/89. FOLLOW-UP COMMENTS FROM OTSB AFTER MEETINGS ON 1/19 AND 2/16 IDENTIFIED ADDITIONAL AREAS NOT PREVIOUSLY DISCUSSED. ON 3/2/89 NRR RESPONSE TO 12/7/88 REQUEST FOR REVIEW RECEIVED INDICATING OTSB CONCERNS WITH TECH SPEC PROPOSALS FOR GI70 AND GI94, AND CONCURRENCE ON GRGR PACKAGE WITHHELD PENDING RESOLUTION OF OTSB COMMENTS. RES STAFF IS COMPLETING REVISIONS TO CRGR PACKAGE TO ADDRESS OTSB COMMENTS. RESULT IS AN ADDITIONAL THREE MONTH SLIP IN SCHEDULE.

REVISED CRGR PACKAGE TO NRR FOR CONCURRENCE 05/89. 06/89 NRR RESPONSE INCLUDED NEW AND ADDITIONAL COMMENTS AND REVISIONS AND CONDITIONAL CONCURRENCE PENDING SATISFACTORY RESOLUTION. ISSUES AND COMMENTS APPEAR TO HAVE BEEN RESOLVED AND PACKAGE TO CRGR 06/89. ADDITIONAL SCHEDULE SLIP OF THREE MONTHS HAS RESULTED. CRGR MEETING SCHEDULED FOR 08/89.

CRGR DID NOT COMPLETE REVIEW OF GI-94 ON 08/09/89 AS SCHEDULED. REVIEWED ON 08/23/89. NEW REQUIREMENT TO ADD BACKFIT ANALYSIS STATEMENT TO GENERIC LETTER PLUS RECOMMENDED MODIFICATIONS TO GL AND STAFF REPORT. RESULT IS ONE MONTH SLIP.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
GSI 94 ASSIGNED TO RSB/DSI/NRR	07/85	--	07/85
DRAFT OF TAP COMPLETED	11/85	--	05/86
FINAL TAP APPROVED BY DSRO DIRECTOR	02/86	--	06/86
ISSUE RFP	06/86	--	06/86
AWARD T/A CONTRACT	11/86	--	12/86
TASK - 1 UPDATE OPERATING DATA	11/86	--	12/86

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 94

TITLE: ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DETERMINE IF REGULATORY ANALYSIS FOR TASKS 4 AND 5 SHOULD BE PERFORMED	01/87	--	02/87
TASK 2 - COLLATE PLANT DATA	03/87	--	04/87
TASK 3 - UPGRADE TO CURRENT STS	03/86	--	06/87
GSI-99 CONTRACTOR REPORT DUE	02/87	--	07/87
TASK 4 - LTOP SET-POINTS (APPENDIX G)	03/87	--	02/88
TASK 5 - STS FOR BOTH LTOP CHANNELS	04/87	--	02/88
TASK 6 - UPDATE SI STS REQUIREMENTS IF STS DEFICIENT	04/87	--	02/88
TASK 7 - UPDATE RCS TS REQUIREMENTS IF STS DEFICIENT	04/87	--	02/88
TASK 8 - EVALUATION OF RHR MODIFICATIONS	03/86	--	03/88
TASK 9 - PERFORMANCE EVALUATION FOR RHR MODIFICATIONS	06/87	--	03/88
TASK 11 - CORE-MELT FREQUENCY REDUCTION	09/87	--	03/88
TASK 10 - PERFORMANCE EVALUATION OF SAFETY GRADE LTOP	06/86	--	04/88
TASK 12 - VALUE/IMPACT EVALUATION	12/87	--	04/88
DRAFT REG. ANAL. PREPARED.	05/86	--	05/88
ACRS REVIEW	07/88	--	02/89
PACKAGE TO CRGR	07/88	--	07/89
FINAL RESPONSE TO ACRS, CRGR, OTHER OFFICES/DIVISIONS (53)	10/88	--	08/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 94

TITLE: ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
GL TO NRR	--	10/89	--
FINAL CLOSEOUT (GENERIC LETTER)	12/88	11/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 103 TITLE: DESIGN FOR PROBABLE MAXIMUM PRECIPITATION
 IDENTIFICATION DATE: 10/84C PRIORITIZATION DATE: 09/85C TYPE: GSI PRIORITY:
 TASK MANAGER: R. KORNASIEWICZ OFFICE/DIVISION/BRANCH: RES /DE /WMB ACTION LEVEL: ACTIVE STATUS: NR
 TAC NUMBERS: RESOLUTION DATE: 10/89
 WORK AUTHORIZATION: MEMO TO J. KNIGHT FROM H. DENTON DATED 9/4/85.

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

REVISE SRP SECTIONS 2.4.2 AND 2.4.3 INCORPORATING NEW NATIONAL WEATHER SERVICE PROCEDURES FOR DETERMINATION OF PROBABLE MAXIMUM PRECIPITATION (PMP). PREPARE REGULATORY ANALYSIS (VALUE/IMPACT) FOR USE OF NEW PMP VALUES. PREPARE A PACKAGE FOR REVIEW BY CRGR.

DEVELOP RECOMMENDATIONS REGARDING BACKFIT APPLICATION OF NEW PMP VALUES. OBTAIN NECESSARY REVIEW AND APPROVALS. THEN PUBLISH REVISION 3 OF SRP SECTIONS 2.4.2 AND 2.4.3.

STATUS

DUE TO THE 11/85 NRR REORGANIZATION AND PRIORITY WORK, A FIVE-MONTH DELAY OCCURRED. RE-REVIEW BY NEW NRR DIVISIONS AND OGC REQUIRED A 50.54(F) REQUEST TO BE ISSUED TO LICENSEES. DSRO ASKED FOR A STAFF PRA OF THE MERIT OF THE 10 CFR 50.54(F); REQUEST BEFORE PACKAGE WAS SENT TO THE NRR DIRECTOR. NRC REORGANIZED IN 4-87 BEFORE PACKAGE WAS SENT TO THE NRR DIRECTOR. AFTER THE REORGANIZATION, NRR DID NOT CONCUR WITH THE ISSUANCE OF A 50.54(F) LETTER. OGC WAS ASKED TO REASSESS THE NEED FOR A 50.54(F) LETTER. THEY RESPONDED IN A 10/19/87 MEMORANDUM THAT THEY "BELIEVED THAT THERE IS SUFFICIENT JUSTIFICATION TO ISSUE A 50.54(F) LETTER." NRR DEVELOPED AN ALTERNATE PROPOSAL THAT WAS NEGOTIATED WITH OGC. THIS SLOW PROCESS OF REACHING AGREEMENT ON THE PROPOSED RESOLUTION CAUSED FURTHER DELAYS IN RESOLUTION OF THIS ISSUE. IN MARCH 1988, A PROPOSAL FOR A

GENERIC INFORMATION LETTER WAS RECEIVED FROM NRR AND WAS INFORMALLY CIRCULATED TO OGC. OGC HAS ADVISED THAT IT HAS NO OBJECTION AND CONCURRED ON THE PROPOSED GENERIC LETTER. A CRGR MEETING WAS HELD IN MAY 1988 TO REVIEW THE PROPOSED RESOLUTION. CRGR APPROVED ISSUANCE OF THE RESOLUTION PACKAGE SUBJECT TO MINOR MODIFICATIONS. A PROPOSED RESOLUTION PACKAGE WAS PUBLISHED IN THE FR ON 09/16/88 AND PROPOSED REV. 3 TO SRP SECTIONS 2.4.2 AND 2.4.3 WERE ISSUED FOR PUBLIC COMMENT. NO COMMENTS WERE RECEIVED AS OF 12/31/88. CRGR DECIDED THAT ADDITIONAL REVIEW WAS NOT NEEDED AND APPROVED THE PACKAGE ON 03/09/89. ACRS REVIEW COMPLETED 04/06/89. FRN AND GL IN NRR.

FRN REGARDING PUBLICATION OF REVISED SRP'S WAS ISSUED JULY 27, 1989. THE GENERIC INFORMATION LETTER IS EXPECTED TO BE ISSUED TO LICENSEES IN OCTOBER 1989.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 103

TITLE: DESIGN FOR PROBABLE MAXIMUM PRECIPITATION

AFFECTED DOCUMENTS

SRP SECTIONS 2.4.2 AND 2.4.3

PROBLEM/RESOLUTION

NRR HAS ISSUED THE REVISED SRP'S BUT NOT THE GENERIC LETTER.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
IDENTIFICATION OF POTENTIAL GENERIC REQUIREMENT CONCERNING DESIGN FOR PMP/MEMO V. STELLO TO H. DENTON	05/84	--	05/84
PREPARE DRAFT REVISIONS OF SRP SECTIONS 2.4.2 AND 2.4.3	07/85	--	07/85
CRGR PACKAGE SENT DST, DL, DSI, AND PPAS FOR DIVISION REVIEW	07/85	--	07/85
CRGR PACKAGE REVIEWED BY DIVISIONS	08/85	--	08/85
DST COMMENTS ON CRGR PACKAGE	09/85	--	09/85
REVISED CRGR PACKAGE BASED ON COMMENTS	10/85	--	10/85
REVISED CRGR PACKAGE REVIEWED BY 11/85 REORGANIZED NRR DIVISION	09/86	--	09/86
BASED ON DIVISION COMMENTS AND OGC REVIEW, CRGR PACKAGE WILL INCLUDE 50.54(F) REQUEST TO LICENSEES	12/86	--	01/87
DSRO DIRECTOR REQUEST FOR PRA ASSESSMENT OF MERIT OF 50.54(F) LETTER TO LICENSEES	02/87	--	03/87
ADVANCE COPIES OF REVISED CRGR PACKAGE ISSUED TO OTHER OFFICES	01/87	--	05/87
CRGR PACKAGE CONCURRENCE BY NRC OFFICES	11/85	--	04/88
RESOLVE OFFICE DIFFERENCES AND REVISE PACKAGE	09/87	--	04/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 103

TITLE: DESIGN FOR PROBABLE MAXIMUM PRECIPITATION

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PACKAGE CONCURRENCE BY NRC OFFICES AND OGC	10/87	--	04/88
REVIEW AND APPROVAL BY DIRECTOR DE/RES	11/87	--	04/88
PACKAGE SENT TO CRGR (29)	12/87	--	04/88
CRGR REVIEW AND APPROVAL	12/85	--	05/88
FRN OF ISSUANCE OF REV. 3 TO SRP SECTIONS 2.4.2 AND 2.4.3 FOR PUBLIC COMMENT	01/86	--	09/88
CRGR PACKAGE REVISED INCORPORATING PUBLIC COMMENT	04/86	--	02/89
REVISED CRGR PACKAGE REVIEWED AND APPROVED BY CRGR (53)	05/86	--	03/89
ACRS REVIEW COMPLETED	04/89	--	04/89
FRN AND GL TO NRR	05/89	--	05/89
FRN ISSUING REV. 3 TO SRP SECTIONS 2.4.2 AND 2.4.3	07/86	--	07/89
GENERIC LETTER ISSUED TO LICENSEES BY NRR LICENSING DIVISIONS	11/87	10/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 105 TITLE: INTERFACING SYSTEMS LOCA AT LWRS
 IDENTIFICATION DATE: 10/84C PRIORITIZATION DATE: 06/85C TYPE: GSI PRIORITY: H
 TASK MANAGER: E. THROM OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 10/91
 WORK AUTHORIZATION: MEMO FOR R. BERNERO FROM H. DENTON DATED 6/11/85.

FIN	CONTRACTOR	CONTRACT TITLE
A3829	BNL	INTERFACING SYSTEMS LOCA

W O R K S C O P E

PERFORM A DETAILED PRA FOR 3 BWR AND 3 PWR PLANTS TO DETERMINE CORE-MELT FREQUENCIES AND RISK CONTRIBUTED BY FAILURE OF REACTOR COOLANT PRESSURE BOUNDARY AS CAUSED BY FAILURE OF PRESSURE ISOLATION VALVES (PIV'S) AND RESULTING INTERFACING SYSTEMS LOCA. DEVELOP NEW LICENSING CRITERIA IF NECESSARY FOR THE GENERIC RESOLUTION. IT HAS BEEN PROPOSED THAT PRESSURE ISOLATION VALVES, WHICH ARE TWO

VALVES IN SERIES AT EACH INTERFACE SEPARATING THE HIGHER PRESSURE RCS FROM ATTACHED LOWER PRESSURE SYSTEMS, SHOULD BE PERIODICALLY LEAK-RATE TESTED OR VISUALLY INSPECTED. SOME OLDER PLANTS DO NOT PERFORM SUCH TESTS ON ALL PIV'S. STUDIES ARE BEING PERFORMED TO ATTEMPT TO DETERMINE IF IMPOSING SUCH PERIODIC TESTING ON ALL PIV'S IN ALL PLANTS IS JUSTIFIED.

S T A T U S

ISSUE 105 WILL BE RESOLVED AS A SEPARATE ISSUE, AS ORIGINALLY PLANNED. THE PERTINENT MILESTONES FROM GENERIC ISSUE II.E.6.1 HAVE BEEN TRANSFERRED TO GENERIC ISSUE 105 AND REVISED. DRAFT NUREG/5102, "INTERFACING SYSTEM LOCA IN PWR'S" AND DRAFT NUREG/5154, "INTERFACING SYSTEM LOCA IN

BWR'S" ARE COMPLETE AND AWAITING PUBLICATION AND PEER REVIEW. ETEC HAS ALSO COMPLETED A STUDY OF THE EFFECTIVENESS OF LEAK-RATE TESTING AS AN INDICATION OF VALVE CONDITION. ISSUE TRANSFERRED FROM EIB TO RPSIB.

AFFECTED DOCUMENTS

10CFR50.55A
 STANDARD TECHNICAL SPECIFICATIONS
 GENERIC LETTER (PROPOSED)

PROBLEM/RESOLUTION

AN NRC INTERSYSTEM LOCA ACTION PLAN IS BEING DEVELOPED BY NRR. FUTURE SCHEDULE DEPENDS ON FINALIZING THIS PLAN. 06/89 NRR USER NEED TO RES FOR IS-LOCA PRA STUDY, DSR TECH ASSIST WITH INEL FOR \$1.14M. NRR ALSO ESTABLISHED IS-LOCA INSPECTION/AUDIT PROGRAM. OBJECTIVE OF BOTH PROGRAMS IS TO DEVELOP IS-LOCA INSPECTION MODULE. NRR USER REQUEST ONLY FOR IS-LOCA OUTSIDE CONTAINMENT, WITH EMPHASIS ON PWR'S.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 105

TITLE: INTERFACING SYSTEMS LOCA AT LWRS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

NRR ALSO HAS TWO PROGRAMS TO ADDRESS MOV'S AND CV'S. THESE PROGRAMS DO NOT ADDRESS ADDITIONAL STUDIES FOR IS-LOCA INSIDE CONTAINMENT, EXTERNAL EVENT INITIATORS, OR VALUE/IMPACT STUDIES TO SUPPORT, IF NECESSARY, STAFF RESOLUTION OF GI-105. INEL HAS BEEN CONTRACTED TO DEVELOP A RESOURCE ESTIMATE TO ACCOMMODATE THESE ADDITIONAL GI-105 NEEDS. IT APPEARS THAT THIS WORK WOULD HAVE TO FOLLOW CURRENT DSR TASKS DUE TO MANPOWER LIMITATION. SCHEDULE REFLECTS THESE ADDITIONAL STUDIES BUT IS SUBJECT TO FUTURE REVISIONS DEPENDING ON RESOURCE NEEDS AND FUNDING AVAILABILITY.
AWAITING CONFIRMATION OF SOW AND FUNDING NEEDS FROM INEL. SCHEDULE DURING 1990-91 DEPENDENT ON INEL COMMITMENTS.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
{RES/EIB} REVIEW RES PROPOSALS FOR PRESSURE ISOLATION VALVE LEAK TESTS & OTHERS. PROVIDE RECS TO RES FOR REVS TO TEST SCOPE/LAB SEL.	05/84	--	05/84
{RES} INITIATE CONTRACT FOR PIV LEAK RATE TESTING (ETEC)	05/84	--	10/84
GSI 105 ASSIGNED TO RSB/DSI/NRR	--	--	06/85
PRELIMINARY DISCUSSION OF WORK PLAN WITH BNL	--	--	06/85
BNL PRELIMINARY COST ESTIMATE OF WORK PLAN	09/85	--	08/85
DEVELOP WORK PLAN AND CONTRACT PROPOSAL	09/85	--	08/85
DRAFT WORK PLAN TO DIRECTORS, DSI, DE, DL DHFS, AND AEGD	09/85	--	08/85
INCORPORATE COMMENTS INTO WORK PLAN	10/85	--	10/85
FINAL WORK PLAN APPROVED BY DSI DIRECTOR AND FORWARDED TO DST	10/85	--	11/85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER 105

TITLE: INTERFACING SYSTEMS LOCA AT LWRS

----- M I L E S T O N E S -----	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ISSUE CONTRACT TO BNL	10/85	--	12/85
MODIFY CONTRACT	01/86	--	01/86
EXPAND CONTRACT TO INCLUDE PWRS	03/86	--	02/86
{RES/EIB} PREPARE GENERIC LETTER TO AL LIC- ENSEES ASKING FOR PROOF OF VERIF. OF RCPB BY TESTING PIV'S	07/86	--	07/86
{NRR} DIRECTOR NRR FORWARD 50.54(F) GENERIC LETTER FOR CRGR APPROVAL	08/86	--	02/87
{CRGR} REVIEW AND APPROV 50.54(F) LETTER TO ALL LICENSEES REGARDING VERIFICATION OF PIV'S	09/86	--	03/87
{NRR/DSRO} ISSUE 10 CFR 50.54(F) LETTER ON PIV VERIFICATION	09/86	--	03/87
{RES/EIB} REVIEW LIC RESP TO 10 CFR 50.54(F) ON PIV VERIF. DETERMINE PROCS ARE ADEQUATE TO ASSURE INTEG OF RCTR COOLANT PRES BNDRY	01/87	--	10/87
FINAL DRAFT REPORTS RECEIVED FROM BNL INCLUDING VALUE/IMPACT ANALYSIS	07/86	--	02/88
PUBLISH NUREG REPORTS	--	--	02/89
{RES/MEB} ISSUE ETEC/DOE LABORATORY REPORTS ON PIV TESTING. (1) CHECK VALVES; (2) GATE VALVES	07/86	10/89	--
REVISED TAP	04/89	11/89	--
{RES/DSR} ENGINEERING ANALYSIS - IDENTIFY FAILURE LOCATIONS, PRESSURES, LEAK AREAS (IS- LOCA OUTSIDE CONTAINMENT)	01/90	01/90	--
NRR IS-LOCA AUDITS OF SIX PLANTS	04/90	04/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 105

TITLE: INTERFACING SYSTEMS LOCA AT LWRS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
(RES/DSR) TRIAL APPLICATION OF IS-LOCA METHODOLOGY ON SIX PLANTS (IS-LOCA OUTSIDE CONTAINMENT)	08/90	08/90	--
EVALUATE IS-LOCA INSIDE CONTAINMENT, EVALUATE IS-LOCA EXTERNAL EVENT INITIATORS, VALUE/IMPACT STUDY	12/90	12/90	--
COMPLETE GI 105 DRAFT REGULATORY ANALYSIS	04/88	02/91	--
DIVISION DEPUTY DIRECTOR RES REVIEW DRAFT R/A	05/88	03/91	--
REVIEW AND CONCURRENCE BY OTHER OFFICES	07/88	06/91	--
ACRS/CRGR REVIEW OF PROPOSED RESOLUTION	10/88	08/91	--
ISSUE GENERIC LETTER AND CLOSE OUT ISSUE	04/89	10/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 106 TITLE: PIPING AND USE OF HIGHLY COMBUSTIBLE GASES IN VITAL AREAS
 IDENTIFICATION DATE: 10/84C PRIORITIZATION DATE: 11/87C TYPE: GSI PRIORITY: M
 TASK MANAGER: C. GRAVES OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 05/91
 WORK AUTHORIZATION: MEMORANDUM FOR G. ARLOTTO FROM E. BECKJORD DATED 11/3/87

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

SEARCH LERS AND INDUSTRIAL DATABASES FOR OPERATIONAL SAFETY EXPERIENCE INVOLVING COMBUSTIBLE GASES. EVALUATE INFORMATION TO ESTIMATE FREQUENCY AND SEVERITY OF POSSIBLE EVENTS. ASSESS EVENTS IN TERMS OF CURRENTLY ACCEPTABLE STAFF GUIDELINES FOR EQUIPMENT DESIGN AND HANDLING OF COMBUSTIBLE GASES AND REEVALUATE RISK ASSOCIATED WITH LACK OF PLANT CONFORMANCE TO CURRENTLY ACCEPTABLE GUIDELINES (E.G., INCORPORATION OF EXCESS FLOW CHECK VALVES OR EQUIVALENT PROTECTION AGAINST H2 PIPE BREAKS). EVALUATE

NEED FOR ANY REVISION TO GUIDELINES AND PREPARE RESOLUTION PACKAGE WITH V/I ANALYSIS. THE SCOPE WAS EXPANDED TO INCLUDE: A) SITE VISITS TO BWR'S AND A SCOPING ANALYSIS TO DETERMINE THE NEED FOR MORE DETAILED RISK ANALYSES OF BWR'S, B) EVALUATION OF THE RISK ASSOCIATED WITH HYDROGEN STORAGE FACILITIES USING INFORMATION FROM THE REGIONAL OFFICES REQUESTED BY NRR, AND C) A REVISED PRA APPROACH FOR PWR'S BASED ON A DETAILED EVALUATION OF INDIAN POINT 2 AND SENSITIVITY CALCULATIONS FOR OTHER PLANTS.

STATUS

STAFF REVIEWS OF THE USE OF COMBUSTIBLE GASES ON SITE ARE BASED ON THE CURRENT VERSION OF SRP SECTION 9.5.1 "FIRE PROTECTION", REV. 3, JULY, 1981 AND BTP CMEB 9.5-1 "GUIDELINES FOR FIRE PROTECTION FOR NUCLEAR POWER PLANTS" REV. 2, JULY, 1981. THIS BTP WHICH REPLACED THE PREVIOUS BTP APCS 9.5-1, PROVIDED NEW GUIDELINES DEALING WITH COMBUSTIBLE GASES AND SPECIFIED, FOR EXAMPLE, THE USE OF EITHER SLEEVED PIPING OR EXCESS FLOW CHECK VALVES FOR H2 PIPING IN THE PWR AUXILIARY BUILDING OF PWR'S TO PREVENT EXPLOSIONS THAT COULD DISABLE SAFETY-RELATED EQUIPMENT.

ISSUE 136, WHICH DEALS WITH SAFETY PROBLEMS INVOLVED WITH LARGE QUANTITIES OF HYDROGEN, WAS RESOLVED RECENTLY WITH STAFF ACCEPTANCE OF EPRI REPORT NP-5283-SR-A. THIS REPORT PROVIDES NEW GUIDANCE PERTINENT TO THIS ISSUE. A LITERATURE SEARCH OF LERS HAS BEEN INITIATED. THE TASK ACTION PLAN WAS REVISED TO INCLUDE THE NEW SCOPE, REVISED PRA AND ADDITIONAL WORK FOR NRR ON THE SUPPLY STATIONS FOR HYDROGEN. THE TWO-WEEK VISIT TO INDIAN POINT 2 BY THE PRA TEAM WAS COMPLETED.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 106

TITLE: PIPING AND USE OF HIGHLY COMBUSTIBLE GASES IN VITAL AREAS

AFFECTED DOCUMENTS

SRP 9.5.1

PROBLEM/RESOLUTION

THE REVISED WORK SCOPE, INCLUDING BWR'S AND NRR TANK FARM STUDY, AND DIFFICULTIES IN ARRANGING SUBCONTRACT WORK RESULTED IN A DELAY IN THE MILESTONES.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DEVELOP TAP	03/88	--	09/88
PRELIMINARY DISCUSSIONS WITH CONTRACTOR	08/88	--	09/88
DRAFT SOW ISSUED TO CONTRACTOR	09/88	--	09/88
ISSUE CONTRACT	08/88	--	12/88
TAP APPROVED	08/88	--	01/89
COMPLETE SURVEY OF PLANT INFORMATION	02/89	--	02/89
COMPLETE REPORT ON SURVEY	03/89	--	03/89
COMPLETE REPORT ON RECOMENDATIONS FOR HYDROGEN SYSTEMS	05/89	--	03/89
ISSUE REVISED TAP	10/89	10/89	--
COMPLETE PRELIMINARY TER ON TASK 5 WORK ON TANK FARM HAZARD	11/89	11/89	--
COMPLETE DRAFT TR ON TASK 2 (LEAK FREQ AND POTENTIAL DAMAGE)	01/90	01/90	--
COMPLETE LETTER REPORT ON TASK 3 RESULTS OF CONSULTATION WITH INDUSTRY	01/90	01/90	--
COMPLETE FINAL TER ON TASK 5 WORK ON TANK FARM HAZARD	02/90	02/90	--
COMPLETE DRAFT TER ON TASK 6 ON PWR PRA	04/90	04/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 106

TITLE: PIPING AND USE OF HIGHLY COMBUSTIBLE GASES IN VITAL AREAS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE DRAFT TER ON TASK 1 (SURVEY OF BWR'S)	06/90	06/90	--
COMPLETE CAMERA READY COPY OF NUREG/CR ON ENTIRE PROJECT	09/90	09/90	--
DRAFT REGULATORY ANALYSIS COMPLETED	01/90	10/90	--
CRGR PACKAGE COMPLETED	02/90	11/90	--
CRGR PACKAGE TO NRR FOR COMMENTS	03/90	11/90	--
DIRECTOR, RES, APPROVAL	04/90	12/90	--
CRGR/ACRS REVIEW	05/90	01/91	--
PACKAGE MODIFIED TO REFLECT CRGR/ACRS	06/90	02/91	--
COMMUNICATIONS SENT TO AFFECTED LICENSEES BY DIRECTOR OF NRR	09/90	05/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 113 TITLE: DYNAMIC QUALIF. TESTING OF LARGE BORE HYDRAULIC SNUBBERS
 IDENTIFICATION DATE: 09/82C PRIORITIZATION DATE: 07/87C TYPE: GSI PRIORITY: H
 TASK MANAGER: J. PAGE OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 01/92
 WORK AUTHORIZATION: JULY 2, 1987 MEMO FROM E. BECKJORD TO G. ARLOTTO

FIN	CONTRACTOR	CONTRACT TITLE
A6837	INEL	GENERIC ISSUE 113-DYNAMIC QUALIFICATION & TESTING

WORK SCOPE

- | | |
|--|---|
| 1. PERFORM LITERATURE SEARCH AND OBTAIN COPIES OF PERTINENT PERIODICALS, PROFESSIONAL SOCIETY PUBLICATIONS, INPO DOCUMENTS, ETC. | AVAILABLE IN U.S. INDUSTRY, INCLUDING PORTABLE EQUIPMENT ONLY AVAILABLE AT TEST LABORATORIES. |
| 2. SURVEY INDUSTRY TO DETERMINE TYPES AND NUMBERS OF LARGE BORE HYDRAULIC SNUBBERS (LBH'S) USED IN U.S. PLANTS | 8. EVALUATE FEASIBILITY OF PERFORMING PERIODIC INSERVICE SURVEILLANCE/TESTS ON INSTALLED LBH'S. |
| 3. OBTAIN DESIGN INFORMATION AND OPERATING LIMITS FROM LBHS MANUFACTURERS. | 9. ASSESS THE OVERALL IMPACT OF SNUBBER REDUCTION INITIATIVES AND THE GDC-4 BROAD SCOPE RULE IMPLEMENTATION ON THE UTILIZATION OF LBH'S. |
| 4. OBTAIN AND EVALUATE OPERATING EXPERIENCE DATA (NPRDS, LERS, REF. AEOD CASE STUDY AEOD/E423, ETC.) | 10. IDENTIFY POTENTIAL IMPROVEMENTS IN LBH'S RELIABILITY AND THE ASSOCIATED COSTS/BENEFITS. |
| 5. OBTAIN AND EVALUATE ENVIRONMENTAL AND DYNAMIC QUALIFICATION INFORMATION. | 11. DEVELOP STAFF RECOMMENDATIONS FOR ENVIRONMENTAL/DYNAMIC QUALIFICATION AND INSERVICE TESTING/SURVEILLANCE. |
| 6. ASSESS CURRENT LBHS TEST AND SURVEILLANCE REQUIREMENTS AS CONTAINED IN PLANT TECHNICAL SPECIFICATIONS INCLUDING APPLICABLE ASME SECTION XI. | 12. PROVIDE CONTINUING SUPPORT TO NRC STAFF IN RESPONDING TO ACRS, OTHER NRC OFFICES, CRGR AND PUBLIC COMMENTS AND IN MAKING NECESSARY CHANGES TO THE FINAL RES. PACKAGE. |
| 7. DETERMINE STATE-OF-THE-ART TESTING CAPABILITIES | |

STATUS

IN JULY 1989, INEL SUBMITTED A DRAFT FINAL REPORT WHICH INCLUDED A VALUE/IMPACT ANALYSIS. THE REPORT IS BEING REVIEWED.

AFFECTED DOCUMENTS

(A) ASME SECTION XI

PROBLEM/RESOLUTION

NONE.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 113

TITLE: DYNAMIC QUALIF. TESTING OF LARGE BORE HYDRAULIC SNUBBERS

AFFECTED DOCUMENTS

- (B) ANSI/ASME OM-4
- (C) SRP 3 9 3
- (D) STANDARD TECHNICAL SPECIFICATIONS
- (E) CUSTOM TECHNICAL SPECIFICATIONS

PROBLEM/RESOLUTION

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DRAFT TAP TO DE DIRECTOR	11/87	--	11/87
DRAFT TAP APPROVED BY DE DIRECTOR AND FORWARDED TO OTHER RES DIVISION DIRECTORS AND NRR FOR COMMENT	12/87	--	12/87
INCORPORATE COMMENTS IN TAP	03/88	--	03/88
FINAL TAP APPROVED BY DE DIRECTOR	04/88	--	07/88
WITH CONTRACTOR ASSISTANCE, PERFORM A LITERATURE SEARCH AND OBTAIN COPIES OF PERTI- NENT PERIODICALS, PROF SOC PUBLICATIONS ETC.	12/88	--	12/88
WITH CONTRACTOR ASSISTANCE, OBTAIN DESIGN INFORMATION AND OPERATING LIMITS FROM LBHS MANUFACTURERS.	12/88	--	12/88
WITH CONTRACTOR ASSISTANCE, OBTAIN AND EVALUATE OPERATING EXPERIENCE DATA.	12/88	--	12/88
WITH CONTRACTOR ASSISTANCE, ASSE'S CURRENT LBHS TEST AND SURVEILLANCE REQUIREMENTS	12/88	--	12/88
WITH CONTRACTOR ASSISTANCE, SURVEY INDUSTRY TO DETERMINE TYPE AND NUMBERS OF LBHS'S IN U. S. PLANTS	12/88	--	06/89
WITH CONTRACTOR ASSISTANCE, OBTAIN AND EVALUATE ENVIRONMENTAL AND DYNAMIC QUALIFICATION INFORMATION.	12/88	--	06/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 113

TITLE: DYNAMIC QUALIF. TESTING OF LARGE BORE HYDRAULIC SNUBBERS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
WITH CONTRACTOR ASSISTANCE, DETERMINE STATE-OF-THE-ART TESTING CAPABILITIES AVAILABLE IN U.S. INDUSTRY.	03/89	--	02/89
WITH CONTRACTOR ASSISTANCE, COMPLETE FEASIBILITY EVAL. OF PERFORMING PERIODIC INSERVICE SURVEILLANCE/TESTS ON LBHS'S	04/89	--	05/89
WITH CONTRACTOR ASSISTANCE, COMPLETE ASSESS. OF IMPACT OF SNUBBER REDUCTION INITIATIVES AND GDC-4 BROAD SCOPE RULE ON USE OF LBHS'S	05/89	--	05/89
DRAFT VALUE/IMPACT	06/89	10/89	--
COMPLETE DTR PACKAGE FOR COMMENT	08/89	12/89	--
DTR PACKAGE TO OTHER OFFICES FOR CONCURRENCE	09/89	01/90	--
DTR PACKAGE TO CRGR	12/89	04/90	--
DTR PACKAGE TO ACRS	12/89	04/90	--
CRGR REVIEW (29)	02/90	06/90	--
DTR PACKAGE ISSUED FOR PUBLIC COMMENT	05/90	09/90	--
PUBLIC COMMENTS RECEIVED	07/90	11/90	--
FTR PACKAGE PREPARED	10/90	02/91	--
FTR PACKAGE TO OTHER OFFICES	01/91	05/91	--
FTR PACKAGE TO CRGR	04/91	08/91	--
CRGR REVIEW OF FTR (53)	06/91	10/91	--
FTR PACKAGE ISSUED	01/91	01/92	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.1 TITLE: PIPE RUPTURE REQUIREMENTS
 IDENTIFICATION DATE: 07/85C PRIORITIZATION DATE: 09/85C TYPE: RI PRIORITY:
 TASK MANAGER: S LEE OFFICE/DIVISION/BRANCH: NRR /DEST/EMTB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: RESOLUTION DATE: _____
 WORK AUTHORIZATION: MEMO TO R. MINOGUE FROM H. DENTON DATED 9/10/85

FIN	CONTRACTOR	CONTRACT TITLE
A0133	LLNL	LOAD COMBINATIONS

WORK SCOPE

PREPARE REGULATORY ANALYSIS ASSOCIATED WITH PROPOSED SRP REVISIONS AND GDC-4 AMENDMENT. IN ACCORDANCE WITH A 01/08/87 MEMO FROM R. BOSNAK TO K. KNIEL, THE REMAINING PART OF GSI B-6 RELATIVE TO DECOUPLING OF SSE AND LOCA LOADS WILL BE ADDRESSED IN THE RESOLUTION OF GSI 119.1. SUBSEQUENTLY, DECOUPLING SSE AND LOCA EFFORTS WERE TERMINATED BASED ON INPUT FROM OGC.

STATUS

THE EDO APPROVAL TO BEGIN RULEMAKING (GDC-4) WAS GIVEN IN 12/84. THE FRN OF PROPOSED LIMITED SCOPE RULE WAS MADE IN 7/85 WITH THE FINAL RULE PUBLISHED IN 4/86. THE FRN OF PROPOSED BROAD SCOPE RULE WAS MADE IN 7/86. COMMISSIONERS APPROVED FINAL BROAD SCOPE RULE ON OCTOBER 1, 1987. FRN SOLICITING PUBLIC COMMENT ON SRP 3.6.3 PUBLISHED ON AUGUST 28, 1987. MANAGEMENT OF SRP 3.6.3 TRANSFERRED TO NRR IN MEMO ARLOTTO TO SHAO DATED SEPTEMBER 28, 1987. FRN OF SRP SECTION 3.6.2 REVISION AND ASSOCIATED GL WERE PUBLISHED. ALL REMAINING ISSUES RELATE TO NRR - NO TASK MANAGERS ASSIGNED.

AFFECTED DOCUMENTS

- (1) 10 CFR 50, APPENDIX A, GDC 4.
- (2) SRP SECTION 3.6.2
- (3) SRP SECTION 3.6.3 (NEW SECTION)

PROBLEM/RESOLUTION

SLIPPAGE IN PUBLICATION OF PROPOSED BROAD SCOPE RULE DUE TO PREPARATION OF BACKFIT ANALYSIS AND INTEGRATION OF VIEWS FROM THE FEDERAL REPUBLIC OF GERMANY. SLIPPAGE IN FINAL BROAD SCOPE RULE DUE TO DELAYS IN PROPOSED BROAD SCOPE RULE AND TO DIFFICULTIES IN RESOLVING TECHNICAL ISSUES, PARTICULARLY RELATING TO HEAVY COMPONENT SUPPORT REDESIGN.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.1

TITLE: PIPE RUPTURE REQUIREMENTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PRC FINAL RPT CONTAINING RECOMMEND. FOR DECOUPLING LOCA, SSE & ARBITRARY INTERMED. PIPE BREAKES ISSUED TO EDO (SRP 3.6.2)	05/85	--	05/85
SRP REVISION AND REGULATORY ANALYSIS COMPLETE (SRP 3.6.2)	04/86	--	04/86
DIVISION DIRECTOR REVIEW OF CRGR PACKAGE COMPLETE (SRP 3.6.2)	06/86	--	07/86
DIVISION DIRECTOR'S COMMENTS RESOLVED, CRGR PACKAGE TO NRR DIRECTOR FOR REVIEW (SRP 3.6.2)	07/86	--	08/86
NRR DIRECTOR REVIEW COMPLETE, PACKAGE SENT TO CRGR (SRP 3.6.2)	08/86	--	09/86
CRGR REVIEW COMPLETE, PACKAGE SENT TO ACRS (SRP 3.6.2)	10/86	--	10/86
ACRS REVIEW COMPLETE (SRP 3.6.2)	12/86	--	11/86
FRN ISSUED FOR PUBLIC COMMENT (SRP 3.6.2)	01/87	--	12/86
ANALYSIS COMPLETE (SRP 3.6.2)	03/87	--	03/87
DIVISION DIRECTOR REVIEW COMPLETE (SRP 3.6.2)	04/87	--	01/87
PUBLIC COMMENTS RESOLVED, FINAL CRGR PACKAGE TO DIVISION DIRECTORS FOR REVIEW (SRP 3.6.2)	05/87	--	01/87
COMMENTS RESOLVED, FINAL CRGR PACKAGE TO NRR DIR. FOR REVIEW (SRP 3.6.2)	07/87	--	02/87
PACKAGE SENT TO CRGR (SRP 3.6.2)	08/87	--	03/87
PACKAGE SENT TO ACRS (SRP 3.6.2)	10/87	--	03/87

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.1

TITLE: PIPE RUPTURE REQUIREMENTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ACRS REVIEW COMPLETE (SRP 3.6.2)	12/87	--	06/87
FRN OF ISSUANCE OF SRP 3.6.2	01/88	--	06/87
SRP REVISION AND REGULATORY ANALYSIS COMPLETE (SRP 3.6.3)	03/87	--	03/87
CEGR PACKAGE TO DIVISION DIRECTORS FOR REVIEW (SRP 3.6.3)	04/87	--	04/87
DIVISION DIRECTOR REVIEW COMPLETED (SRP 3.6.3)	04/87	--	05/87
CRGR PACKAGE TO RES DIRECTOR FOR REVIEW (SRP 3.6.3)	05/87	--	06/87
PACKAGE SENT TO CRGR (SRP 3.6.3) (29)	05/87	--	06/87
PACKAGE SENT TO ACRS (SRP 3.6.3)	06/87	--	06/87
ACRS & CRGR REVIEW COMPLETED (SRP 3.6.3)	06/87	--	08/87
FRN ISSUED FOR PUBLIC COMMENT (SRP 3.6.3)	07/87	--	08/87
MANAGEMENT OF SRP 3.6.3 TRANSFERRED TO NRR	--	--	09/87
FRN OF FINAL BROAD SCOPE RULE (GDC-4)	02/87	--	10/87
PUBLIC COMMENTS RESOLVED, CRGR PACKAGE SENT TO DIVISION DIRECTORS (SRP 3.6.3)	11/87	TBD	--
DIVISION DIRECTORS REVIEW COMPLETED (SRP 3.6.3)	12/87	TBD	--
NRR OFFICE DIRECTOR REVIEW COMPLETED (SRP 3.6.3)	02/88	TBD	--
PACKAGE SENT TO CRGR AND ACRS (SRP 3.6.3) (53)	03/88	TBD	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.1

TITLE: PIPE RUPTURE REQUIREMENTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ACRS AND CRGR REVIEW COMPLETE (SRP 3.6.3)	04/88	TBD	--
FRN OF ISSUANCE OF SRP 3.6.3	05/88	TBD	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.2

TITLE: PIPE DAMPING VALUES

AFFECTED DOCUMENTS

REGULATORY GUIDES 1.84 AND 1.61
SRP SECTION 3.9.2

PROBLEM/RESOLUTION

*** NONE ***

M I L E S T O N E S

ISSUE REV. 24 OF R.G. 1.84
ENDORING ASME CODE N-411.

ORIGINAL
DATE

05/86

CURRENT
DATE

--

ACTUAL
DATE

06/86

DEVELOP SCHEDULE TO REVISE R.G.
1.61 AND SRP SECTION 3.9.2.

11/87

11/89

--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.4 TITLE: BWR PIPING MATERIALS
 IDENTIFICATION DATE: 07/85C PRIORITIZATION DATE: 09/85C TYPE: RI PRIORITY:
 TASK MANAGER: A. TABOADA OFFICE/DIVISION/BRANCH: RES /DE /MEB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: NONE RESOLUTION DATE: 06/90
 WORK AUTHORIZATION: MEMO TO R. MINOGUE FROM H. DENTON DATED 9/10/85.

FIN	CONTRACTOR	CONTRACT TITLE
A2212	ANL	ENVIRONMENTALLY ASSISTED CRACKING IN LWRS

WORK SCOPE

DETERMINE THE ACCEPTABILITY OF PROPOSED FIXES TO MITIGATE INTERGRANULAR STRESS CORROSION CRACKING (IGSCC).

STATUS

NUREG-0313, REV. 2, "TECHNICAL REPORT ON MATERIAL SELECTION AND PROCESSING GUIDELINES FOR BWR COOLANT PRESSURE BOUNDARY PIPING," WAS APPROVED BY THE COMMISSION (SECY 87-239) FOR IMPLEMENTATION AND ISSUANCE OF GENERIC LETTER.

AFFECTED DOCUMENTS

R.G. 1.44 AND NUREG-0312, "TECHNICAL REPORT ON MATERIAL SELECTION AND PROCESSING GUIDELINES FOR BWR COOLANT PRESSURE BOUNDARY PIPING."

PROBLEM/RESOLUTION

NEED FOR REVISION OR WITHDRAWAL OF R.G. 1.44 IS UNDER REVIEW.

MILESTONES

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
SECY-84-301 TO COMMISSION	07/84	--	07/84
PUBLISH NUREG-1061, VOL. 1	09/84	--	09/84
PUBLISH NUREG-1061, VOL. 5	04/85	--	04/85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.4

TITLE: BWR PIPING MATERIALS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE DRAFT ON NUREG-0313, REV. 2	09/85	--	09/85
OFFICE REVIEW	01/86	--	01/86
CRGR REVIEW	03/86	--	04/86
ISSUE FOR PUBLIC COMMENT	04/86	--	06/86
REVISION OF DRAFT TO REFLECT PUBLIC COMMENTS	07/86	--	02/87
ACRS REVIEW	03/87	--	03/87
CRGR REVIEW	09/86	--	06/87
COMMISSION PAPER FOR APPROVAL	12/86	--	09/87
ISSUE GENERIC LETTER-8801	04/87	--	01/88
MADE DECISION TO WITHDRAW REGULATORY GUIDE 1.44	12/87	--	10/89
WITHDRAW REGULATORY GUIDE 1.44	06/90	06/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.5 TITLE: LEAK DETECTION REQUIREMENTS
 IDENTIFICATION DATE: 07/85C PRIORITIZATION DATE: 09/85C TYPE: RI PRIORITY:
 TASK MANAGER: J. MUSCARA OFFICE/DIVISION/BRANCH: RES /DE /MEB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: RESOLUTION DATE: 03/90
 WORK AUTHORIZATION: MEMO TO R. MINOGUE FROM H. DENTON DATED 9/10/85.

FIN	CONTRACTOR	CONTRACT TITLE
A2250	ANL	EVALUATION OF CURRENT AND ADVANCED LEAK DETECTION SYSTEMS
D1658	BCL	LEAK RATE EVALUATION

W O R K S C O P E

SURVEY EXISTING OPERATING PLANT PRACTICES AND LEAK DETECTION SYSTEMS. EVALUATE LEAK RATE ESTIMATION
 CURRENT ADVANCED METHODS TO DETERMINE THE ADEQUACY OF MODELS.

S T A T U S

NUREG-0313, REV. 2, APPROVED BY THE COMMISSION AND PUBLISHED.

AFFECTED DOCUMENTS

- (1) REGULATORY GUIDE 1.45
- (2) SRP SECTION 5.2.5
- (3) NUREG-0313, "TECHNICAL REPORT ON MATERIAL SELECTION AND PROCESSING GUIDELINES FOR BWR COOLANT PRESSURE BOUNDARY PIPING."

PROBLEM/RESOLUTION

RESEARCH PROJECT ON LEAK DETECTION STARTED IN FY-86 BUT DRASTICALLY REDUCED DUE TO BUDGET CUTS (GRAMM/RUDMAN). REPORT COMPLETED IN FY-86 ONLY ON LIMITED ASSESSMENT OF CURRENT PRACTICE IN PLANTS. FUNDING RESUMED IN MID FY-87. RESEARCH ON EFFECTIVENESS OF CURRENT LEAK DETECTION SYSTEMS COMPLETED IN FY 1988. REPORTS NUREG/CR-4813 AND NUREG/CR-4813 REV 1. RESEARCH ON ADVANCED LEAK DETECTION SYSTEM COMPLETED AND APPLICATION PROCEDURES DEVELOPED. FINAL REPORT NUREG/CR-5134 PUBLISHED OCT. 1988. FIRST WORKING DRAFT FOR REVISION OF REG. GUIDE 1.45 (INCORPORATES FINDINGS OF ABOVE RESEARCH) DEVELOPED. INFORMAL COMMENTS FROM NRR AND REGIONS RECEIVED IN JULY 1989. STAFF DESIRES A MAJOR REVISION TO THE DRAFT GUIDE TO INCORPORATE NOT ONLY INSTRUMENTATION REQUIREMENTS (AS IN PRESENT GUIDE) BUT ALSO LEAK MONITORING, DETECTION, AND

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 119.5

TITLE: LEAK DETECTION REQUIREMENTS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

ACCEPTANCE CRITERIA. A WORKSHOP IS SCHEDULED FOR OCT. 24, 1989, WITH NRC STAFF AND CONTRACTORS TO DISCUSS AND DECIDE HOW TO ACCOMPLISH NEW REQUIREMENTS IN THE REVISION.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
SECY-84-301 TO COMMISSION	07/84	--	07/84
PUBLISH NUREG-1061, VOL. 1	09/84	--	09/84
PUBLISH NUREG-1061, VOL. 5	04/85	--	04/85
COMPLETE DRAFT OF NUREG-0313 REV. 2	09/85	--	09/85
OFFICE REVIEW	01/86	--	01/86
CRGR REVIEW	03/86	--	04/86
ISSUE FOR PUBLIC COMMENT	04/86	--	06/86
REVISE DRAFT TO REFLECT PUBLIC COMMENTS	07/86	--	02/87
ACRS REVIEW	03/87	--	03/87
CRGR REVIEW	09/86	--	06/87
COMMISSION PAPER FOR APPROVAL	12/86	--	09/87
GL ISSUED	04/87	--	01/88
DEVELOP SCHEDULE TO REVISE R.G. 1.45	01/88	03/90	--
DEVELOP SCHEDULE TO REVISE SRP SECTION 5.2.5.	12/88	03/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 121 TITLE: HYDROGEN CONTROL FOR LARGE, DRY PWR CONTAINMENTS
 IDENTIFICATION DATE: 08/85C PRIORITIZATION DATE: 09/85C TYPE: GSI PRIORITY: H
 TASK MANAGER: E. CHOW OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: NONE RESOLUTION DATE: 02/91
 WORK AUTHORIZATION: MEMO TO F. GILLESPIE FROM T. SPEIS DATED 9/26/85.

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

ESTABLISH A TECHNICAL POSITION ON THE NEED FOR HYDROGEN CONTROL FOR LWR'S WITH LARGE, DRY CONTAINMENTS AND MAKE RECOMMENDATIONS TO THE COMMISSION REGARDING RULEMAKING.

STATUS

AT THE COMMISSION MEETING ON 12/10/84 AND IN SECY-83-357B, THE STAFF INDICATED THAT RECOMMENDATIONS FOR RULEMAKING RELATED TO LWR'S WITH LARGE, DRY CONTAINMENTS WOULD BE PROVIDED AT THE CONCLUSION OF ONGOING RESEARCH IN MID-1986. WORK HAS BEEN PROCEEDING AND STAFF MEETINGS WERE HELD IN NOVEMBER 1985 TO REVIEW THE PROGRESS. THE VARIOUS RESEARCH TASKS WERE SCHEDULED TO BE COMPLETED DURING THE FIRST HALF OF CALENDAR YEAR 1986. RECOMMENDATIONS TO THE COMMISSION ARE CURRENTLY BEING INCLUDED AS PART OF THE CONTAINMENT PERFORMANCE IMPROVEMENT PROGRAM FOR LARGE DRY CONTAINMENTS.

AFFECTED DOCUMENTS

POSSIBLE NEW AMENDMENTS TO 10 CFR PART 50.44

PROBLEM/RESOLUTION

IF BNL REPORT DOES NOT RESOLVE THE ISSUE, THERE MAY BE DELAY. DEPENDING ON WHETHER RULE IS REQUIRED, SCHEDULE MAY BE SHORTENED. A CPI PROGRAM WORKSHOP IS TO BE SCHEDULED.

MILESTONES

RESEARCH COMPLETE

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
06/86	--	08/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 121

TITLE: HYDROGEN CONTROL FOR LARGE, DRY PWR CONTAINMENTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
TRANSFER FROM DRA	--	--	08/88
PROVIDE MILESTONES	09/88	--	06/89
BNL DRAFT REPORT	09/89	--	09/89
INTERIM STATUS REPORT TO COMMISSION	07/89	10/89	--
BNL FINAL REPORT	10/89	10/89	--
DRAFT COMMISSION PAPER	10/89	11/89	--
CRGR REVIEW	12/89	12/89	--
ACRS REVIEW	12/89	12/89	--
PAPER TO EDO	12/89	12/89	--
PAPER TO COMMISSION	01/90	01/90	--
ISSUE RULE	02/91	02/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 128 TITLE: ELECTRICAL POWER RELIABILITY
 IDENTIFICATION DATE: 05/86C PRIORITIZATION DATE: 11/86C TYPE: GSI PRIORITY: H
 TASK MANAGER: D. THATCHER OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 03/90
 WORK AUTHORIZATION: MEMO FOR H. DENTON FROM T. SPEIS DATED 11/28/86.

FIN	CONTRACTOR	CONTRACT TITLE
D6025	INEL	INTEGRATION OF ELECTRICAL POWER ISSUES

W O R K S C O P E

INTEGRATION OF OTHER HIGH OR MEDIUM PRIORITY GENERIC ISSUES: A-30, 48, 49.

TASK 1: IDENTIFICATION OF ISSUES.

THE CONTRACTOR REVIEWED THE DOCUMENTATION RELATED TO THE ELECTRICAL ISSUES AND CONCERNS LISTED BELOW. A NUMBER OF GSI'S DIRECTLY RELATED TO ONSITE ELECTRICAL POWER SYSTEMS HAVE BEEN DOCUMENTED (NUREG-0933) AND ARE IN VARIOUS STAGES OF RESOLUTION. THESE ISSUES INCLUDE: A-30, "ADEQUACY OF SAFETY-RELATED DC POWER SUPPLIES;" 48, "LCO FOR CLASS 1E VITAL INSTRUMENT BUSES IN OPERATING REACTORS"; 49, "INTERLOCKS AND LCOS FOR REDUNDANT CLASS 1E TIE BREAKERS".

A NUMBER OF OTHER ISSUES AND CONCERNS CONCERN THE ONSITE ELECTRICAL POWER SYSTEMS TO A SOMEWHAT LESSER DEGREE. SOME OF THESE ISSUES INCLUDE: USI A-17, "SYSTEMS INTERACTIONS," AND USI A-47, "SAFETY IMPLICATIONS OF CONTROL SYSTEMS."

WITH RESPECT TO POSSIBLE RESOLUTION FOR FUTURE PLANTS, CONSIDERATION WAS GIVEN TO THE IEEE STANDARDS AND NRC ENDORSEMENTS BY REGULATORY GUIDES. SPECIFICALLY, THE FOLLOWING WERE CONSIDERED: IEEE 603 AND ITS REFERENCED STANDARDS, AND IEEE 308 AND ITS REFERENCED STANDARDS.

TO OBTAIN AN UP-TO-DATE ASSESSMENT OF ONGOING ELECTRICAL POWER CONCERNS, AEOD AND NRR WERE CONTACTED. RELEVANT AEOD CASE STUDIES WERE REVIEWED ALONG WITH BULLETINS AND NOTICES. IN ADDITION, INEL REVIEWED NUREG-0933, "A PRIORITIZATION OF GENERIC SAFETY ISSUES,"

THROUGH SUPPLEMENT 6, MARCH 1987, TO CONSIDER OTHER DOCUMENTED GSI'S WHICH MAY HAVE AN IMPACT ON THE INTEGRATED APPROACH TO THE ELECTRICAL POWER SYSTEM ISSUES AND CONCERNS. BASED ON THE REVIEW OF THE ABOVE-DISCUSSED MATERIALS, INEL PREPARED A DRAFT REPORT SUMMARIZING ALL THE RELATED ISSUES AND RECOMMENDED A PLAN FOR PROCEEDING WITH RESOLUTION OF THE RELATED ISSUES AND CONCERNS (TASKS 2 AND 3).

TASK 2: EVALUATE THE ISSUES AND EXPECTED RESULTS BASED ON THE RESULTS OF TASK 1.

INEL WILL COMPLETE NECESSARY ANALYSIS AND DEVELOP ALTERNATIVES FOR RESOLUTION OF THE ISSUES AND CONCERNS FOR BOTH EXISTING AND FUTURE PLANTS. A FINAL REPORT WILL BE PREPARED THAT INCLUDES THE RESULTS OF TASK 1 AND PROVIDES THE RECOMMENDED ALTERNATE RESOLUTIONS DETERMINED IN TASK 2. PRELIMINARY CONSIDERATION OF POTENTIAL SAFETY BENEFITS AND COSTS OF EACH ALTERNATIVE WILL ALSO BE PROVIDED.

TASK 3: DEVELOP REGULATORY ANALYSIS BASED ON THE PRELIMINARY ANALYSES PERFORMED IN TASK 2.

INEL WILL COMPLETE NECESSARY ANALYSIS AND PREPARE DRAFT DOCUMENTS FOR NRC STAFF SUBMISSION TO CRGR. THE DRAFT REGULATORY ANALYSIS TO BE PREPARED SHALL BE BASED ON THE MOST COST-EFFECTIVE ALTERNATIVES EVALUATED IN TASK 2. THE NRC-WIDE GUIDELINES, AS CONTAINED IN NUREG/BR-0058, "REGULATORY ANALYSIS GUIDELINES OF THE U.S. NUCLEAR REGULATORY COMMISSION," JANUARY 1983, WILL BE FOLLOWED IN PREPARING THE DRAFT DOCUMENTS.

S T A T U S

THE OBJECTIVE OF THIS EFFORT IS TO DEVELOP A SINGLE

PROGRAM WHICH ADDRESSES THE ISSUES IN AN INTEGRATED MANNER.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 128

TITLE: ELECTRICAL POWER RELIABILITY

AFFECTED DOCUMENTS

 THE FOLLOWING TECHNICAL REPORTS HAVE BEEN PUBLISHED OR
 ARE SCHEDULED TO BE PUBLISHED:
 NUREG-0305 "TECHNICAL REPORT ON DC POWER SUPPLIES
 IN NUCLEAR POWER PLANTS," JULY 1977.
 NUREG-0666, "A PROBABILISTIC SAFETY ANALYSIS OF
 DC POWER SUPPLY REQUIREMENTS FOR NUCLEAR POWER
 PLANTS," APRIL 1981.
 UCID-19469, "120 VAC VITAL INSTRUMENT BUSES AND
 INVERTER TECHNICAL SPECIFICATIONS," 1982.

PROBLEM/RESOLUTION

 AS PROPOSED, THE RESOLUTION WOULD NOT REQUIRE PUBLIC
 COMMENT. CRGR COMMENTS WERE ADDRESSED IN A MEMO TO
 E. JORDAN. ACRS DID NOT AGREE WITH THE RESOLUTION OF
 GI-128 (LETTER REMICK TO ZECH, JUNE 14, 1989). WE ARE IN
 THE PROCESS OF RESPONDING TO THE ACRS. NUMEROUS REWRITES
 HAVE OCCURRED DUE TO EDO OFFICE COMMENTS. THIS PROGRAM IS
 ON HOLD AWAITING THE EDO'S SIGNATURE.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PRELIMINARY RESOLUTION PACKAGE SENT TO STAFF FOR TECHNICAL REVIEW/COMMENTS (GSI'S 48 & 49)	12/87	--	04/88
PREPARE DTR PACKAGE (GSI'S 48, 49, AND A-30)	04/88	--	07/88
DIVISION DEPUTY DIRECTOR REVIEW OF DTR COMPLETED	05/88	--	12/88
MANAGEMENT CONCURRENCE BY OTHER OFFICES	07/88	--	04/89
DTR PACKAGE TO CRGR (29)	07/88	--	05/89
ACRS REVIEW OF DTR COMPLETED	09/88	--	06/89
CRGR REVIEW OF DTR COMPLETED	09/88	--	07/89
FINAL CLOSEOUT MEMO DRAFTED	08/89	10/89	--
DIVISION DEPUTY DIRECTOR REVIEW COMPLETED	05/89	11/89	--
CONCURRENCE BY OTHER OFFICES	07/89	12/89	--
ISSUE GENERIC LETTERS	12/89	03/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 130 TITLE: ESSENTIAL SERVICE WATER PUMP FAILURES AT MULTIPLANT SITES
 IDENTIFICATION DATE: 06/86C PRIORITIZATION DATE: 03/87C TYPE: GSI PRIORITY: H
 TASK MANAGER: V. LEUNG OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 03/90
 WORK AUTHORIZATION: MEMO TO T. SPEIS FROM H. DENTON DATED 3/10/87.

FIN	CONTRACTOR	CONTRACT TITLE
A3971	BNL	ESSENTIAL SERVICE WATER PUMP FAILURES AT MULTIPLANT SITES (GI-130)

W O R K S C O P E

 THIS ISSUE RELATES TO THE RELIABILITY OF THE EMERGENCY SERVICE WATER (ESW) SYSTEM OF MULTIPLANT SITES HAVING TWO ESW PUMPS PER PLANT. STUDIES WILL BE PERFORMED TO DETERMINE IF THE ESW SYSTEM RELIABILITY AT SUCH PLANTS IS ADEQUATE. THE POTENTIAL BENEFITS OF ADDING AN ESW PUMP AT EACH PLANT OR A SWING ESW PUMP, MODIFICATION OF PLANT

OPERATING PROCEDURES AND PLANT TECHNICAL SPECIFICATIONS WILL BE EVALUATED. THE EFFECT ON SYSTEM RELIABILITY OF MODIFIED TECHNICAL SPECIFICATIONS ON THE LCO'S FOR THE ESW PUMPS AND ALTERNATE MEANS OF PROVIDING SERVICE WATER WILL ALSO BE CONSIDERED.

S T A T U S

 FOLLOWING DISCUSSIONS WITH NRR, IT WAS DECIDED THAT RES SHOULD INITIATE A SHORT TERM PROGRAM TO OBTAIN EARLY CRGR APPROVAL OF A TECH SPEC CHANGE, SIMILAR TO THAT PROPOSED BY BYRON, TO ADDRESS THIS CONCERN. THE LONGER TERM ASPECTS

RELATED TO POTENTIAL EQUIPMENT MODIFICATIONS WILL BE ADDRESSED BY THE BNL CONTRACT. BNL IS CONTINUING ON THE LONGER TERM PROGRAM. THE SHORT-TERM PROGRAM HAS BEEN CANCELLED (SEE BELOW).

AFFECTED DOCUMENTS

 PLANT TECHNICAL SPECIFICATIONS, POSSIBLE SRP CHANGES.

PROBLEM/RESOLUTION

 THE FINAL CONTRACTOR REPORT AND VALUE/IMPACT ANALYSIS WERE DELAYED BY 2 MONTHS DUE TO CONTINUING STAFF CONCERNS WITH THE EVALUATION MODEL AND THE SHORT-TERM UNAVAILABILITY OF CONTRACTOR PERSONNEL. THE FINAL REPORT IS NOW SCHEDULED FOR 10/89.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 130

TITLE: ESSENTIAL SERVICE WATER PUMP FAILURES AT MULTIPLANT SITES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ASSIGN TASK MANAGER	05/87	--	05/87
DEVELOP TAP	07/87	--	08/87
ASSEMBLE INFORMATION ON SYSTEM LAYOUT FOR MULTI-PLANT SITES	11/87	--	12/87
PRELIMINARY DISCUSSION OF WORK PLAN WITH CONTRACTOR	12/87	--	01/88
ISSUE SOW FOR CONTRACTOR	02/88	--	03/88
LER SEARCH FOR SERVICE WATER SYSTEM MALFUNCTIONS	12/87	--	03/88
DRAFT REGULATORY ANALYSIS FOR TECH SPEC CHANGE	05/88	--	05/88
PRELIMINARY CONTRACTOR REPORT	09/88	--	03/89
FINAL REPORT	11/88	10/89	--
PREPARE VALUE/IMPACT ANALYSIS	11/88	10/89	--
SUBMIT DTR TO RES DIRECTOR	02/89	12/89	--
ACRS REVIEW	05/89	01/90	--
CRGR REVIEW (29.53)	06/89	01/90	--
FTR TO NRR	09/89	02/90	--
ISSUE GENERIC LETTER	01/90	03/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 133 TITLE: UPDATE POLICY STATEMENT ON NUCLEAR PLANT STAFF WORKING HOURS
 IDENTIFICATION DATE: 07/86C PRIORITIZATION DATE: 11/86C TYPE: LI PRIORITY:
 TASK MANAGER: W. REGAN OFFICE/DIVISION/BRANCH: NRR /DLPQ/LHFB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: M40402 RESOLUTION DATE: _____
 WORK AUTHORIZATION: SRM DATED 9/30/85

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

W O R K S C O P E

SINCE COMMISSION POLICY IS STATED IN SEVERAL DOCUMENTS, REVISION OF NRC'S PRESENT POLICY GUIDANCE ON LIMITS ON OVERTIME AND SHIFT SCHEDULING IS NEEDED TO CONSOLIDATE CURRENT GUIDANCE INTO A SINGLE DOCUMENT. ALSO, THE RECENT ALLEGATIONS OF OPERATORS SLEEPING ON SHIFT AT PEACH-BOTTOM, AS WELL AS SIMILAR OCCURENCES, POINT TO THE NEED FOR A MORE DEFINITIVE POLICY. FOR EXAMPLE, THERE IS NO SPECIFIC GUIDANCE RELATING TO THE USE OF 12-HOUR SHIFTS IN THE CURRENT POLICY STATEMENT. THE STAFF HAS REVIEWED AND APPROVED CASE-BY-CASE 8 LICENSEE PROGRAMS FOR ROUTINE 12-HOUR SHIFTS FOR 2 UTILITIES. IN ADDITION, THE CUMULATIVE EFFECTS OF FATIGUE HAVE NOT BEEN ADDRESSED. A POLICY STATEMENT WHICH BUILDS

ON THE CURRENT GUIDELINES ON OVERTIME AND NORMAL WORKING HOURS IS BEING DEVELOPED. A REVISED POLICY STATEMENT ON SHIFT AND SCHEDULING HOURS OF WORK WOULD ELIMINATE LICENSEE CONFUSION RESULTING FROM MULTIPLE POLICY AND REQUIREMENT DOCUMENTS AND WOULD CLEARLY IDENTIFY LICENSEE MANAGEMENT'S RESPONSIBILITY TO ASSURE THAT NUCLEAR POWER PLANT STAFF FATIGUE RESULTING FROM EXCESSIVE WORKING HOURS DOES NOT ADVERSELY AFFECT PUBLIC HEALTH OR SAFETY.

THE REVISED POLICY STATEMENT WILL AID THE NRC STAFF IN CONDUCTING REVIEWS OF LICENSEE PROGRAMS AND IN MONITORING LICENSEE IMPLEMENTATION.

S T A T U S

CRGR REVIEWED A DRAFT POLICY STATEMENT ON 12/4/86. CRGR RECOMMENDATIONS HAVE RESULTED IN SEVERAL REVISIONS. ALSO, THE COMMISSION REQUESTED INFORMATION ON THE HUMAN

FACTORS EFFECTS OF ROTATING SHIFTS ON OPERATOR ALERTNESS WHICH WAS SUBMITTED BY THE STAFF ON 6/23/87.

AFFECTED DOCUMENTS

THE PROPOSED POLICY STATEMENT WOULD SUPERSEDE THE DOCUMENTS OR SECTIONS OF THE FOLLOWING DOCUMENTS THAT DEAL WITH SHIFT SCHEDULING AND OVERTIME: POLICY STATE-

PROBLEM/RESOLUTION

CLOSE-OUT PACKAGE IS STILL AWAITING NRR DIRECTOR APPROVAL BEFORE SUBMITTAL TO THE EDO.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 133

TITLE: UPDATE POLICY STATEMENT ON NUCLEAR PLANT STAFF WORKING HOURS

AFFECTED DOCUMENTS

MENT OF 2/18/82, (47FR7352), REVISED POLICY STATEMENT OF
6/1/82 (47FR23836), NUREG-0737 [ITEM I.A.1.3.], AND
GENERIC LETTERS 82-12, 82-16, 83-02, AND 83-14.

PROBLEM/RESOLUTION

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
SUBMIT PAPER TO COMMISSION ON HUMAN FACTORS EFFECTS	06/87	--	06/87
BRIEF NRR MANAGEMENT ON STAFF POSITION	07/87	--	07/87
SUBMIT DRAFT POLICY STATEMENT TO NRR DIRECTOR	03/87	--	10/88
SUBMIT DRAFT POLICY STATEMENT TO CRGR FOR REVIEW	04/87	--	08/88
SUBMIT DRAFT POLICY STATEMENT TO EDO	05/87	--	--
COMMISSION APPROVAL	02/89	--	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 134 TITLE: RULE ON DEGREE AND EXPERIENCE REQ. FOR SENIOR OPERATORS
 IDENTIFICATION DATE: 07/86C PRIORITIZATION DATE: 07/86C TYPE: GSI PRIORITY: #
 TASK MANAGER: M. FLEISHMAN OFFICE/DIVISION/BRANCH: RES /DRA /RDB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 08/89C
 WORK AUTHORIZATION: MEMO (COMLZ-85-6) FROM S. CHILK TO V. STELLO DATED 1/23/86

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

THIS CONTEMPLATED RULEMAKING ACTION IS DUE TO A COMMISSION DECISION TO ENHANCE THE LEVELS OF ENGINEERING AND ACCIDENT MANAGEMENT EXPERTISE ON SHIFT. THIS IS BEING DONE TO FURTHER ENSURE THE PROTECTION OF THE HEALTH AND SAFETY OF THE PUBLIC BY HAVING PERSONNEL ON SHIFT WITH ENHANCED QUALIFICATIONS.

THE CONTEMPLATED RULE WOULD REQUIRE (4 YEARS AFTER EFFECTIVE DATE OF RULE) THAT APPLICANTS FOR LICENSES AS A SENIOR OPERATOR (SO) OF A NUCLEAR POWER PLANT HOLD A BACHELOR'S DEGREE IN ENGINEERING, ENGINEERING TECHNOLOGY OR THE PHYSICAL SCIENCES FROM AN ACCREDITED INSTITUTION. THE CURRENT REQUIREMENT (FOR CANDIDATES WITH A BACHELOR'S

DEGREE) OF TWO YEARS OF RESPONSIBLE NUCLEAR POWER PLANT EXPERIENCE WOULD BE AMENDED TO REQUIRE AT LEAST ONE OF TWO YEARS OF OPERATING EXPERIENCE BE AS A REACTOR OPERATOR WITH A COMMERCIAL NUCLEAR REACTOR OPERATING AT GREATER THAN TWENTY PERCENT OF RULE WOULD BE "GRANDFATHERED."

THE CONTEMPLATED DEGREE RULE IS RELATED TO THE COMMISSION POLICY STATEMENT ON ENGINEERING EXPERTISE ON SHIFT (50 FR 43621, 10/28/85). THIS POLICY STATEMENT INCREASES EXPERTISE ON SHIFT THROUGH THE SEPARATE SHIFT TECHNICAL ADVISOR. THE POLICY STATEMENT CLOSED OUT ISSUE HF 1.2, "ENGINEERING EXPERTISE ON SHIFT."

STATUS

COMMISSION DECIDED ON MAY 17, 1989, TO PROCEED WITH ONLY A POLICY STATEMENT. ON JUNE 29, 1989, THE COMMISSION VOTED 5-0 TO APPROVE A POLICY STATEMENT AND A SEPARATE

NOTICE OF WITHDRAWAL OF PROPOSED RULEMAKING. THE POLICY STATEMENT AND WITHDRAWAL NOTICE WERE PUBLISHED IN THE FEDERAL REGISTER IN AUGUST 1989.

AFFECTED DOCUMENTS

NONE

PROBLEM/RESOLUTION

NONE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 134

TITLE: RULE ON DEGREE AND EXPERIENCE REQ. FOR SENIOR OPERATORS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
ANPRM (51 FR 19561). COMMENT BEGINS	05/86	--	05/86
ANPRM (51 FR 19561). COMMENT ENDS	08/86	--	09/86
ANPRM (51 FR 19561). RESOLUTION OF PUBLIC COMMENTS	02/87	--	03/87
SUBMIT OPTIONS TO NRR DIRECTOR IN SECY PAPER	03/87	--	04/87
SUBMIT SECY PAPER TO EDO	04/87	--	04/87
SUBMIT SECY PAPER TO COMMISSION	04/87	--	04/87
COMMISSION REVIEW	06/87	--	06/87
PROPOSED RULE TO CRGR/ACRS (29)	05/88	--	05/88
PROPOSED RULE TO EDO	05/88	--	08/88
COMMISSION REVIEW	08/88	--	09/88
PROPOSED RULE ISSUED	10/88	--	12/88
POLICY STATEMENT FOR ACRS REVIEW (53)	04/89	--	06/89
POLICY STATEMENT FOR EDO REVIEW	04/89	--	06/89
POLICY STATEMENT ISSUED	09/89	--	08/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 135 TITLE: STEAM GENERATOR AND STEAM LINE OVERFILL ISSUES
 IDENTIFICATION DATE: 05/86C PRIORITIZATION DATE: 07/86C TYPE: GSI PRIORITY: M
 TASK MANAGER: A. NOTAFRANCESCO OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 11/90
 WORK AUTHORIZATION: MEMO FROM R. BOSNAK TO K. KNIEL, "INTEGRATION OF NUREG-0933 ISSUES," MAY 27, 1986.

FIN	CONTRACTOR	CONTRACT TITLE
D1766	SCIENTECH	STEAM GENERATOR AND STEAM LINE OVERFILL ISSUES

WORK SCOPE

STEAM GENERATOR (SG) OVERFILL AND ITS CONSEQUENCES HAVE RECEIVED STAFF/INDUSTRY ATTENTION BECAUSE OF THE FREQUENCY AND SEVERITY OF SUCH EVENTS. A NUMBER OF ONGOING ACTIVITIES ARE CONCERNED WITH SG OVERFILL RELATED ISSUES. THESE ARE: LANL STEAM GENERATOR TUBE RUPTURE (SGTR) STUDIES; LICENSING QUESTIONS ON SGTR (TMI REVIEW); GSI 66, "STEAM GENERATOR REQUIREMENTS" (ACTIONS FOR INDUSTRY); GSI 67, "STEAM GENERATOR STAFF ACTIONS"; WESTINGHOUSE SGTR STUDIES; AND STEAM LINE WATER HAMMER STUDIES (INEL/CREARE).

AN INTEGRATED WORK PLAN WAS DEVELOPED TO BRING THESE ACTIVITIES TO A CONCLUSION. THE WORK SCOPE IS THEREFORE INTENDED TO PROVIDE A BETTER UNDERSTANDING OF STEAM GENERATOR AND SECONDARY SYSTEM INTEGRITY INCLUDING THE EFFECTS OF WATER HAMMER AND ITS EFFECTS ON SECONDARY SYSTEM COMPONENTS AND BRANCH LINES AS WELL AS RADIOLOGICAL CONSEQUENCES. THE WORK SCOPE IS DIVIDED INTO 4 TASKS, OUTLINED BELOW, TO COVER A WIDE RANGE OF WORK REQUIREMENTS ON STEAM GENERATOR TUBE INTEGRITY AND STEAM GENERATOR OVERFILL DUE TO SGTR. THE COORDINATION OF RESULTS OF THE DIFFERENT TASKS WILL PROVIDE A BASIS FOR THE STAFF TO DEVELOP A POSITION ON OFFSITE DOSE, OPERATOR ACTION TIME AND TUBE INTEGRITY. WATER HAMMER MITIGATION STUDIES WILL BE CARRIED OUT TO GIVE THE STAFF A BETTER UNDERSTANDING FOR DEVELOPING POSITIONS ON WATER HAMMER IN MAIN STEAM LINES AND OPERABILITY OF VALVES AND OTHER COMPONENTS.

TASK 1: (1) SURVEY THE CODE REQUIREMENTS AND INDUSTRY PRACTICE FOR AVAILABLE EDDY CURRENT TESTING PROCEDURES; (2) ASSESS THE CAPABILITY OF CURRENT METHODS TO DETECT STEAM GENERATOR TUBE DEGRADATION; (3) REVIEW CURRENT ASME CODE SECTION XI REQUIREMENTS ON EDDY CURRENT TESTING PROCEDURES AND DETERMINE ADEQUACY FOR USE AS STANDARD FOR INSPECTION OF STEAM GENERATOR TUBES; (4) DEVELOP WRITTEN RECOMMENDATIONS FOR REGULATORY GUIDANCE AND/OR REQUIREMENTS INCLUDING POSSIBLE ENDORSEMENT OF ASME CODE SECTION XI REQUIREMENTS ON EDDY CURRENT TESTING PROCEDURES.

TASK 2: REVIEW RESULTS AND CONCLUSIONS OF STUDIES ON SGTR AND PROPOSE SPECIFIC MODIFICATIONS TO SRP SECTION 15.6.3 INCLUDING TUBE INTEGRITY, OPERATOR ACTION TIME AND OFFSITE DOSE LIMITS. DEVELOP A REGULATORY ANALYSIS SUPPORTING THE SRP CHANGES. THE REGULATORY ANALYSIS WILL DEVELOP RISK ANALYSIS AND A BASIS FOR COST BENEFIT OF THE PROPOSED SRP CHANGES.

TASK 3: REASSESS THE FOLLOWING PENDING ISSUES OF GSI 67 FOR POTENTIAL INCLUSION IN AN INTEGRATED RESOLUTION.

1. REASSESSMENT OF RADIOLOGICAL CONSEQUENCES
2. REEVALUATION OF DESIGN BASIS SGTR
3. SUPPLEMENTAL TUBE INSPECTIONS
4. INTEGRITY OF STEAM GENERATOR TUBE SLEEVES
5. DENTING CRITERIA
6. IMPROVED ACCIDENT MONITORING

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 135

TITLE: STEAM GENERATOR AND STEAM LINE OVERFILL ISSUES

W O R K S C O P E

- 7. REACTOR VESSEL INVENTORY MEASUREMENT
 - 8. REACTOR COOLANT PUMP (RCP) TRIP
 - 9. CONTROL ROOM DESIGN REVIEW
 - 10. EMERGENCY OPERATING PROCEDURES
 - 11. ORGANIZATIONAL RESPONSES
 - 12. REACTOR COOLANT SYSTEM PRESSURE CONTROL
- THIS TASK WILL ENTAIL REVIEW OF THE PRIORITIZATION AND RELATIONSHIP TO OTHER GENERIC

ISSUES (NUREG-0933 AND NUREG-0844).
 TASK 4: REVIEW EFFECTS OF WATER HAMMER, OVERFILL AND WATER CARRYOVER ON SECONDARY SYSTEM AND CONNECTING SYSTEMS AND DEVELOP PROPOSALS FOR MITIGATING THE CONSEQUENCES. CONSIDER THE EFFECTS OF SAGGING DUE TO WATER WEIGHT, OPERABILITY OF VALVES AND OTHER COMPONENTS WHEN SUBJECTED TO TWO-PHASE FLOW OF LIQUID.

S T A T U S

TECHNICAL CONTRACT HAS BEEN AWARDED TO SCIENTECH INC. THE CONTRACTOR IS PROGRESSING ON TASKS 1, 2, 3 AND 4 SATISFACTORILY. DRAFT REPORTS HAVE BEEN RECEIVED FROM THE CONTRACTOR ON TASKS 1, 3 AND 4. A DRAFT SUMMARY REPORT

BY SCIENTECH IS BEING CONVERTED TO A DRAFT TECHNICAL FINDINGS REPORT (DRAFT NUREG) FOR GSI 135. AS DRAFTED, THE RESOLUTION WILL NOT REQUIRE PUBLIC COMMENT. AN ACRS MEETING IS SCHEDULED IN OCTOBER. NO CRGR MEETING IS ANTICIPATED.

AFFECTED DOCUMENTS

*** T O B E D E T E R M I N E D ***

PROBLEM/RESOLUTION

INTERNAL RES REVIEW HAS CAUSED SOME MODIFICATIONS TO THE CONTRACTOR REPORT AND SOME SCHEDULE DELAY. CONTRACTOR REPORT REQUIRED EXTENSIVE REVISION AND HAS CAUSED ADDITIONAL DELAY OF THE FINAL REPORT.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
STAFF PRESENTATION TO ACRS	01/87	--	03/87
STAFF/CONTRACTOR MEETING WITH ACRS	07/87	--	08/87
CONTRACTOR COMPLETES TASKS 1,2,3 & 4	10/88	--	02/89
STAFF COMMENTS ON PRELIMINARY DRAFT CONTRACTORS REPORT	11/88	--	04/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 135

TITLE: STEAM GENERATOR AND STEAM LINE OVERFILL ISSUES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
FINAL DRAFT CONTRACTOR'S REPORT	12/88	--	06/89
STAFF COMMENTS ON FINAL DRAFT CONTRACTOR'S REPORT	07/89	--	07/89
FINAL CONTRACTOR'S REPORT	08/89	--	08/89
STAFF PREPARE DTR PACKAGE	02/89	--	08/89
DIVISION DEPUTY DIRECTOR REVIEW OF DTR COMPLETED	03/89	--	08/89
CONCURRENCE ON DTR BY OTHER OFFICES	05/89	10/89	--
DTR PACKAGE TO CRGR (29)	05/89	10/89	--
ACRS REVIEW OF DTR COMPLETED	07/89	12/89	--
CRGR REVIEW OF DTR COMPLETED	07/89	12/89	--
FRN OF ISSUANCE OF DTR FOR PUBLIC COMMENTS	10/89	10/89	--
COMPLETE DE REVIEW OF PUBLIC COMMENTS AND PREPARE FTR PACKAGE	03/90	03/90	--
DIVISION DEPUTY DIRECTOR FTR REVIEW COMPLETED	04/90	04/90	--
CONCURRENCE ON FTR BY OTHER OFFICES	06/90	06/90	--
REVIEW FTR PACKAGE TO CRGR (53)	06/90	06/90	--
CRGR REVIEW OF FTR COMPLETED	08/90	08/90	--
FRN OF ISSUANCE OF FTR	11/90	11/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-17 TITLE: SYSTEM INTERACTIONS IN NUCLEAR POWER PLANTS
 IDENTIFICATION DATE: 01/78C PRIORITIZATION DATE: 0./78C TYPE: USI PRIORITY: U
 TASK MANAGER: D. THATCHER OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 09/89C
 WORK AUTHORIZATION: COMMISSION DESIGNATION OF SYSTEM INTERACTIONS AS A USI

FIN	CONTRACTOR	CONTRACT TITLE
80789	ORNL	SURVEY & EVAL. OF SYSTEM INTERACTION EVENTS & SOURCES

WORK SCOPE

THE SCOPE OF WORK TO RESOLVE THE ISSUE INCLUDES:
 (1) SEARCH FOR COMMON CAUSE EVENTS; (2) TRENDS/PATTERNS OF COMMON CAUSE EVENTS; (3) INDIAN POINT
 COMPARISON; (4) SCREEN EVENTS FOR SAFETY SIGNIFICANCE (5) REVIEW-DEFINE SEARCH METHODS; AND (6) COMPARE/EVALUATE METHODS.

STATUS

THE ASPECT OF FLOODING AND WATER INTRUSION FROM INTERNAL PLANT SOURCES WILL BE HANDLED IN THE IPE. A COMMISSION PAPER (SECY-89-230) WAS ISSUED ON AUGUST 1, 1989. A FEDERAL REGISTER NOTICE WAS PUBLISHED ON AUGUST 22, 1989. THE FINAL RESOLUTION CONSISTS OF A GENERIC LETTER (89-18) WHICH WAS ISSUED ON 09/06/89 FOR INFORMATION ONLY.

AFFECTED DOCUMENTS

- THE FOLLOWING TECHNICAL REPORTS HAVE BEEN PUBLISHED:
- (1) NUREG/CR-1321, "FINAL REPORT - PHASE I, SYSTEMS INTERACTION METHODOLOGY APPLICATIONS PROGRAM," SNL (SAND80-0884), APRIL 1980
 - (2) NUREG/CR-1859, "SYSTEMS INTERACTIONS: STATE-OF-THE-ART REVIEW AND METHODS OF EVALUATION," LLNL, JANUARY 1981.
 - (3) NUREG/CR-1896, "REVIEW OF SYSTEMS INTERACTION METHODOLOGIES," PNL JANUARY 1981.
 - (4) INTERACTION METHODS," BNL 1981.
 - (5) NUREG/CR-2915, "INITIAL GUIDANCE ON DIGRAPH MATRIX ANALYSIS FOR SYSTEMS INTERACTION STUDIES."

PROBLEM/RESOLUTION

NONE. USI A-17 IS RESOLVED AND CLOSED OUT.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-17

TITLE: SYSTEM INTERACTIONS IN NUCLEAR POWER PLANTS

AFFECTED DOCUMENTS	PROBLEM/RESOLUTION
(6) LLNL (UCID-19457), MARCH 1983. NUREG/CR-3593, "SYSTEMS INTERACTION RESULTS FROM THE DIGRAPH MATRIX ANALYSIS OF A NUCLEAR POWER PLANT'S HIGH PRESSURE SAFETY INJECTION SYSTEMS," ANALYTIC INFORMATION PROCESSING AND LLNL, JULY 1984	
(7) NUREG/CR-3922, "SURVEY AND EVALUATION OF SYSTEM INTERACTION EVENTS AND SOURCES," ORNL, JANUARY 1985.	
(8) NUREG/CR-4179, "DIGRAPH MATRIX ANALYSIS FOR SYSTEMS INTERACTIONS AT INDIAN POINT UNIT 3, ABRIDGED VERSION," (VOL. 1, TO BE PUBLISHED; VOLS. 2-6 WILL BE AVAILABLE IN THE NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, N.W., WASHINGTON, D.C.) LLNL	
(9) NUREG/CR-4207, "FAULT TREE APPLICATION TO THE STUDY OF SYSTEMS INTERACTIONS AT INDIAN POINT 3," BNL, APRIL 1985.	
(10) NUREG/CR-4261, "ASSESSMENT OF SYSTEM INTERACTION EXPERIENCE IN NUCLEAR POWER PLANTS," ORNL, JUNE 1986.	
(11) NUREG/CR-4306, "REVIEW AND EVALUATION OF SPATIAL SYSTEM INTERACTION PROGRAMS," ORNL, DECEMBER 1986.	
(12) NUREG-1174, "EVALUATION OF SYSTEMS INTERACTIONS IN NUCLEAR POWER PLANTS," MAY 1989.	
(13) NUREG-1229, "REGULATORY ANALYSIS FOR RESOLUTION OF USI A-17," AUGUST 1989.	

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DTR ISSUED BY DSRO FOR STAFF COMMENT	03/85	--	08/85
STAFF COMMENTS TO DSRO ON DTR	04/85	--	11/85
DTR PACKAGE TO NRR DIRECTOR	12/85	--	03/86
DTR PACKAGE TO CRGR	03/86	--	03/86

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-17

TITLE: SYSTEM INTERACTIONS IN NUCLEAR POWER PLANTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PREPARE DTR PACKAGE	07/87	--	07/87
DIVISION DEPUTY DIRECTOR REVIEW COMPLETED	08/87	--	08/87
CONCURRENCE BY OTHER OFFICES (OGC CONCURRED; NRR REVIEW NOT COMPLETED)	10/87	--	05/88
REVIEW PACKAGE TO CRGR (29)	10/87	--	05/88
ACRS REVIEW OF DTR COMPLETED	12/87	--	08/88
CRGR REVIEW OF DTR COMPLETED	05/86	--	10/88
PROPOSED RESOLUTION REVISED AND RESUBMITTED TO OTHER OFFICER FOR CONCURRENCE	03/88	--	03/89
DIVISION DEPUTY DIRECTOR REVIEW OF FTR COMPLETED	09/88	--	05/89
CONCURRENCE BY OTHER OFFICES AND PACKAGE TO CRGR (53)	10/86	--	05/89
CRGR AND ACRS REVIEW OF FTR COMPLETED	01/89	--	07/89
ISSUE COMMISSION PAPER FOR CLOSEOUT	05/89	--	08/89
FRN OF ISSUANCE OF FTR	12/86	--	08/89
GENERIC LETTER (INFORMATION ONLY)	09/89	--	09/89

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 77

ISSUE NUMBER: A-29

TITLE: NUCLEAR POWER PLANT VULNERABILITY TO SABOTAGE

IDENTIFICATION DATE: 06/78C

PRIORITIZATION DATE: 11/83C

TYPE: GSI

PRIORITY: M

TASK MANAGER: A. SERKIZ

OFFICE/DIVISION/BRANCH: RES /DSIR/RPSI

ACTION LEVEL: ACTIVE

STATUS:

TAC NUMBERS:

RESOLUTION DATE: 10/89

WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN

FIN

CONTRACTOR

CONTRACT TITLE

B2936
B2995

PNL
PNL

RESOLUTION OF SAFETY ISSUE A-29, SABOTAGE
EVALUATE PROBABILITY OF NUCLEAR PLANT SABOTAGE

W O R K S C O P E

GSI A-29 DEALS WITH THE VULNERABILITY OF NUCLEAR POWER PLANT SYSTEMS TO INSIDER TAMPERING AND SABOTAGE, AND THE RISK RESULTING FROM SUCH ACTIONS. THE RESULT OF PREVIOUS GSI A-29 AND

USI STUDIES WILL BE COMPILED INTO A TECHNICAL FINDINGS REPORT WHICH WILL BE USED TO CLOSE OUT THIS ISSUE.

S T A T U S

THE RESULTS OF PRIOR STUDIES AND CURRENT PLANT SECURITY MEASURES HAVE BEEN USED TO PREPARE NUREG-1267, "TECHNICAL RESOLUTION OF GENERIC SAFETY ISSUE A-29, NUCLEAR POWER PLANT

DESIGN FOR REDUCTION OF VULNERABILITY TO INDUSTRIAL SABOTAGE."

AFFECTED DOCUMENTS

TO BE DETERMINED

PROBLEM/RESOLUTION

FINAL RESOLUTION WAS DELAYED FOR TWO MONTHS TO ALLOW THE ACRS TIME TO DECIDE IF IT WANTED TO REVIEW THE STAFF RESOLUTION. THE ISSUE WAS SUBSEQUENTLY REVIEWED AT THE SEPT. 1989 ACRS MEETING.

M I L E S T O N E S

TAP ISSUED FOR COMMENT

ORIGINAL
DATE

CURRENT
DATE

ACTUAL
DATE

--

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08/83

AS OF FY89 QUARTER 4

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-29

TITLE: NUCLEAR POWER PLANT VULNERABILITY TO SABOTAGE

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
FINAL TAP ISSUED	04/84	--	01/84
CONTRACTOR SUPPORT (A) PROPOSAL SOLICITED	02/84	--	02/84
(B) PROPOSAL EVALUATED	03/84	--	08/84
(C) CONTRACT ISSUED	04/84	--	08/84
DEVELOP METHOD TO EVALUATE SABOTAGE VULNERABILITY REDUCTION MEASURES NUREG/CR-4392	04/85	--	04/85
EVALUATE ALTERNATIVE MEANS OF SABOTAGE REDUCTION NUREG/CR-4462	11/85	--	11/85
RECIEVE 198A PROPOSAL	05/86	--	05/86
ISSUE CONTRACT TO PNL FOR CLOSEOUT ACTIVITIES	09/88	--	09/88
PREPARE TECHNICAL FINDINGS NUREG	02/89	--	03/89
RESOLUTION TO ACRS	04/89	--	06/89
ACRS REVIEW COMPLETE	05/89	--	09/89
ISSUE CLOSEOUT MEMO	06/89	10/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-40 TITLE: SEISMIC DESIGN CRITERIA
 IDENTIFICATION DATE: 01/79C PRIORITIZATION DATE: 01/79C TYPE: USI PRIORITY: U
 TASK MANAGER: K. SHAUKAT OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 09/89C
 WORK AUTHORIZATION: COMMISSION DESIGNATION OF SEISMIC DESIGN CRITERIA AS A
 USI

FIN	CONTRACTOR	CONTRACT TITLE
A0441	LLNL	VALUE/IMPACT ASSESSMENT FOR SEISMIC DESIGN CRITERIA
A3981	BNL	RESOLUTION OF PUBLIC COMMENTS FOR USI A-40

WORK SCOPE

THE PROGRAM FOR RESOLUTION OF USI A-40 CONSISTS OF TWO PHASES: (1) TASKS CONCERNING SEISMIC INPUT DEFINITIONS, AND (2) TASKS CONCERNING THE RESPONSE OF STRUCTURES, SYSTEMS, AND COMPONENTS. ALL TECHNICAL WORK HAS BEEN COMPLETED ON BOTH PHASES. THE TECHNICAL WORK ACCOMPLISHED ON EACH OF THE TASKS DESCRIBED BELOW IS SUMMARIZED AND EVALUATED IN NUREG/CR-1161. "RECOMMENDED REVISIONS TO NUCLEAR REGULATORY COMMISSION SEISMIC DESIGN CRITERIA." THIS REPORT WAS PREPARED BY LLNL FOR THE NRC. REFERENCE TO TECHNICAL REPORTS DOCUMENTING COMPLETION OF A-40 TASKS AND OTHER PERTINENT TECHNICAL WORK IS INCLUDED IN NUREG/CR-1161. IN DEVELOPING THE SPECIFIC RECOMMENDATIONS, THE LLNL STAFF AND THEIR TEAM OF EXPERT CONSULTANTS CONSIDERED ALL AVAILABLE AND APPROPRIATE TECHNICAL LITERATURE IN ADDITION TO THE RESULTS OF USI A-40 TASKS. IN SOME CASES, RECOMMENDATIONS WERE DEVELOPED BY CONSENSUS OF EXPERT OPINION AND STEMMED FROM UNPUBLISHED DATA, RESEARCH AND EXPERIENCE.

A REVIEW OF THE RECOMMENDATIONS BY THE NRC STAFF HAS BEEN MADE AND A PROPOSED STAFF POSITION DEVELOPED

IN A FORM OF RECOMMENDED CHANGES IN SRP FOR REVISION. IN SOME CASES, THE RECOMMENDATIONS HAVE ALREADY BEEN INCORPORATED INTO THE SRP IN A GENERAL REVISION IN 1981. A VALUE/IMPACT ANALYSIS HAS BEEN COMPLETED FOR THE ASSESSMENT OF THE SAFETY IMPACT OF IMPLEMENTING THE SRP CHANGES PROPOSED AS A RESULT OF THE TECHNICAL FINDINGS (NUREG/CR-3480). THE SUPPORTING DOCUMENTS REQUIRED FOR REVIEW BY THE CRGR WERE PREPARED AND INCLUDED ALTERNATIVES TO THE STAFF POSITION ON SOIL STRUCTURE INTER-ACTION (SSI). A WORKSHOP ON THE SUBJECT OF SSI WAS HELD IN JUNE 1986 BY NRC WITH COORDINATION BY BNL IN THE WASHINGTON, D.C. METROPOLITAN AREA. THE OBJECTIVES OF THIS SSI WORKSHOP WERE TO REVIEW THE ALTERNATIVES SUGGESTED BY THE STAFF ON SSI AND RELATED LICENSING CONCERNS JOINTLY BY REGULATORS, PRACTITIONERS, RESEARCHERS, UTILITIES AND OTHER INTERESTED GROUPS, AND TO DISCUSS SUGGESTIONS TO IMPROVE THE LICENSING CRITERIA ON SSI. ANOTHER WORKSHOP SPONSORED BY EPRI/NRC/TPC WAS HELD IN DECEMBER 1987 ON LOTUNG LARGE-SCALE SSI PROJECT (EPRI NP-1154). THE OUTCOME OF BOTH THE SSI WORKSHOPS HELPED THE STAFF DECIDE THE LICENSING CRITERIA TO BE INCLUDED IN THE PROPOSED REVISION TO THE SRP.

STATUS

THE CRGR PACKAGE WAS REVISED TO INCLUDE MODIFIED SRP REQUIREMENTS AND ACCEPTANCE CRITERIA FOR SSI ANALYSIS. IN

ADDITION IT INCLUDED A REVISED POSITION ON SEIMIC DESIGN OF TANKS. A REQUEST FOR INFORMATION HAS BEEN SENT TO SELECTED

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-40

TITLE: SEISMIC DESIGN CRITERIA

STATUS

LICENSEES ASKING FOR INFORMATION ON DESIGN OF LARGE ABOVE-GROUND TANKS IN THEIR FACILITIES.

THE PROPOSED RESOLUTION WAS REVIEWED BY CRGR IN MEETING NO. 130 ON MARCH 9, 1988. THE PROPOSED RESOLUTION PACKAGE WAS ISSUED FOR PUBLIC COMMENT IN MAY 1988. COMMENTS HAVE BEEN RECEIVED AND RESOLVED THROUGH A CONTRACT WITH BNL AND A NUMBER OF CONSULTANTS, PROVIDING RECOMMENDATIONS TO REVISE PROPOSED SRP SECTIONS (NUREG/CR-5347). THE RESOLUTION PACKAGE HAS BEEN REVISED AND CONCURRENCE HAS BEEN RECEIVED

FROM NRR, OGC, AND AEOD. THE RESOLUTION WAS PRESENTED TO ACRS SUBCOMMITTEE ON JUNE 22, 1989, AND ACRS FULL COMMITTEE ON JULY 13, 1989. IT WAS REVIEWED BY CRGR IN MEETING NO. 166 ON JULY 26, 1989. BOTH ACRS AND CRGR HAVE INDICATED THEIR AGREEMENT WITH THE RESOLUTION. A COMMISSION PAPER (SECY-89-296) HAS BEEN ISSUED ON SEPTEMBER 22, 1989. A FEDERAL REGISTER NOTICE HAS BEEN PUBLISHED ON SEPT. 29, 1989 ANNOUNCING FINAL RESOLUTION.

AFFECTED DOCUMENTS

- THE FOLLOWING TECHNICAL REPORTS HAVE BEEN PUBLISHED:
- (1) NUREG/CR-1161, "RECOMMEND REVISIONS TO NUCLEAR REGULATORY COMMISSION SEISMIC DESIGN CRITERIA," MAY 1980.
 - (2) NUREG/CR-1717, "SOIL-STRUCTURE INTERACTION METHODS SIM CODE," SEPTEMBER 1979.
 - (3) NUREG/CR-4182, "VERIFICATION OF SOIL-STRUCTURE INTERACTION METHODS," MAY 1985.
 - (4) NUREG/CR-4329, "RELIABILITY EVALUATION OF CONTAINMENTS INCLUDING SOIL-STRUCTURE INTERACTION," DECEMBER 1985.
 - (5) NUREG/CR-3480, "VALUE/IMPACT ASSESSMENT FOR SEISMIC DESIGN CRITERIA, USI A-40," AUGUST 1984.
 - (6) NUREG/CP-0054 "PROCEEDINGS OF THE WORKSHOP ON SSI", BETHESDA, MD, 6/16-6/18/86
 - (7) REVISION 2 TO SRP SECTIONS 2.5.2, 3.7.1, 3.7.2 AND 3.7.3
 - (8) NUREG-1233, "REGULATORY ANALYSIS FOR USI A-40, SEISMIC DESIGN CRITERIA"
 - (9) NUREG/CR-3509, "POWER SPECTRAL DENSITY FUNCTIONS COMPATIBLE WITH NRC REGULATORY GUIDE 1.60, RESPONSE SPECTRA"
 - (10) NUREG/CR-5347, "RECOMMENDATIONS FOR RESOLUTION OF PUBLIC COMMENTS ON USI A-40, SEISMIC DESIGN CRITERIA."

PROBLEM/RESOLUTION

NONE. USI A-40 IS RESOLVED AND CLOSED OUT.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-40

TITLE: SEISMIC DESIGN CRITERIA

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DTR ISSUED BY DST FOR STAFF COMMENT	09/83	--	03/83
STAFF COMMENTS ON DTR TO DST	10/83	--	10/83
COMPLETED DTR PACKAGE TO NRR DIRECTOR	11/83	--	12/84
REVISED DTR STAFF POSITION	03/86	--	04/86
SSI WORKSHOP TO SUPPORT DTR	06/86	--	06/86
ISSUE DTR FOR STAFF COMMENT	08/86	--	08/86
SUBMIT PROPOSED RESOLUTION PACKAGE FOR NRC OFFICES REVIEW	08/86	--	08/87
PROPOSED RESOLUTION PACKAGE TO CRGR (29)	09/86	--	01/88
CRGR REVIEW OF DTR COMPLETE	10/86	--	03/88
ISSUE PROPOSED RESOLUTION FOR PUBLIC COMMENT	11/86	--	05/88
END OF PUBLIC COMMENT PERIOD	02/87	--	08/88
ISSUE LETTER TO OPERATING PLANTS ON SEISMIC ADEQUACY OF LARGE TANKS	01/89	--	05/89
ISSUE FINAL RESOLUTION PACKAGE FOR CONCURRENCE BY OTHER OFFICES	04/87	--	04/89
FINAL PACKAGE TO ACRS (53)	07/87	--	04/89
FINAL PACKAGE TO CRGR	07/87	--	06/89
CRGR/ACRS REVIEW OF FINAL RESOLUTION COMPLETE	07/87	--	07/89
FRN ISSUANCE OF FINAL RESOLUTION	10/87	--	09/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-47 TITLE: SAFETY IMPLICATION OF CONTROL SYSTEMS
 IDENTIFICATION DATE: 12/80C PRIORITIZATION DATE: 12/80C TYPE: USI PRIORITY: U
 TASK MANAGER: A. SZUKIEWICZ OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 09/89C
 WORK AUTHORIZATION: COMMISSION APPROVAL OF USI A-47 IN DECEMBER 1980

FIN	CONTRACTOR	CONTRACT TITLE
A6477	INEL	SAFETY IMPLICATIONS OF CONTROL SYSTEMS A-47
B0467	ORNL	SAFETY IMPLICATIONS OF CONTROL SYSTEMS
B0816	ORNL	SAFETY IMPLICATIONS OF CONTROL SYSTEMS
B2386	PNL	RISK ANALYSIS OF SIGNIFICANT CONTROL SYS FAILURES
B2925	PNL	VALUE/IMPACT ANAL OF "NON-SAFETY-GRADE" CNTL SYS(USI A-47)

WORK SCOPE

- THE SCOPE OF WORK TO RESOLVE THIS ISSUE INCLUDES:
- (1) EVALUATE CONTROL SYSTEM FAILURES ON FOUR REFERENCE PLANT DESIGNS (ONE FOR EACH OF THE NSSS VENDORS) THAT COULD: (1) CAUSE TRANSIENTS OR ACCIDENTS TO BE POTENTIALLY MORE SEVERE THAN THOSE IDENTIFIED IN THE FSAR ANALYSIS; (2) ADVERSELY AFFECT ANY ASSUMED OR ANTICIPATED OPERATOR ACTION DURING THE COURSE OF A TRANSIENT OR ACCIDENT; (3) CAUSE TECHNICAL SPECIFICATION SAFETY LIMITS TO BE EXCEEDED; OR (4) CAUSE TRANSIENTS OR ACCIDENTS TO OCCUR AT A FREQUENCY IN EXCESS OF THOSE ESTABLISHED FOR
 - ABNORMAL OPERATIONAL TRANSIENTS AND DESIGN BASIS ACCIDENTS.
 - (2) EVALUATE RISKS POSED BY POTENTIALLY SIGNIFICANT CONTROL SYSTEM FAILURES IDENTIFIED DURING THE REVIEW AND ASSESS THE EFFECTIVENESS OF IMPROVEMENTS IN REDUCING THOSE RISKS.
 - (3) EVALUATE RISK REDUCTION AND COSTS OF VARIOUS FIXES TO PERFORM VALUE/IMPACT ANALYSIS OF THE FAILURES
 - (4) EVALUATE THE GENERIC APPLICABILITY OF THE FAILURES IDENTIFIED DURING THE REVIEW OF THE REFERENCE PLANTS.

STATUS

A COMMISSION PAPER WITH THE ENCLOSED FINAL RESOLUTION PACKAGE WAS ISSUED ON AUGUST 23, 1989 (SECY-89-255). THE FRN WAS PUBLISHED ON SEPTEMBER 5, 1989. A GENERIC LETTER (89-19) WAS ISSUED BY NRR FOR IMPLEMENTATION TO ALL LICENSEES ON SEPTEMBER 20, 1989. THESE ACTIVITIES CONSTITUTE FINAL RESOLUTION OF USI A-47.

AFFECTED DOCUMENTS

THE FOLLOWING TECHNICAL REPORTS HAVE BEEN PUBLISHED

PROBLEM/RESOLUTION

NONE. USI A-47 IS RESOLVED AND CLOSED OUT.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-47

TITLE: SAFETY IMPLICATION OF CONTROL SYSTEMS

AFFECTED DOCUMENTS	PROBLEM/RESOLUTION
(1) NUREG/CR-4262, "EFFECTS OF CONTROL SYSTEM FAILURES ON TRANSIENTS AND ACCIDENTS AT A GENERAL ELECTRIC BOILING WATER REACTOR," VOLUMES 1 AND 2, MAY 1985.	
(2) NUREG/CR-4326, "EFFECTS OF CONTROL SYSTEM FAILURES ON TRANSIENTS AND ACCIDENTS AT A 3-LOOP WESTINGHOUSE PRESSURIZED WATER REACTOR," VOLUME 1, AUGUST 1985, VOLUME 2, OCTOBER 1985.	
(3) NUREG/CR-4047, "AN ASSESSMENT OF THE SAFETY IMPLICATIONS OF CONTROL AT THE OCONEE 1 NUCLEAR PLANT FINAL REPORT," MARCH 1986.	
(4) NUREG/CR-3991, "FAILURE MODES AND EFFECTS ANALYSIS (FMEA) OF THE ICS/NNI ELECTRIC POWER DISTRIBUTION CIRCUITRY AT THE OCONEE 1 NUCLEAR PLANT," 10/85.	
(5) NUREG/CR-3692, "POSSIBLE MODES OF STEAM GENERATOR OVERFILL RESULTING FROM CONTROL SYSTEM MALFUNCTIONS AT OCONEE-1 NUCLEAR PLANT," JULY 1984.	
(6) NUREG/CR-4449, "A PWR HYBRID COMPUTER MODEL FOR ASSESSING THE SAFETY IMPLICATIONS OF CONTROL SYSTEMS," MARCH 1986.	
(7) NUREG/CR-4265, "AN ASSESSMENT OF SAFETY IMPLICATIONS OF CONTROL AT THE CALVERT CLIFFS 1 NUCLEAR PLANT," VOLUME 1, APRIL 1986, VOLUME 2, JULY 1986.	
(8) NUREG/CR-4387, "EFFECTS OF CONTROL SYSTEM FAILURE ON TRANSIENT, ACCIDENT AND CORE-MELT FREQUENCIES AT A GENERAL ELECTRIC BOILING WATER REACTOR," DECEMBER 1985.	
(9) NUREG/CR-4385, "EFFECTS OF CONTROL SYSTEM FAILURES ON TRANSIENTS, ACCIDENTS, AND CORE-MELT FREQUENCIES AT A WESTINGHOUSE PWR," NOVEMBER 1985.	
(10) NUREG/CR-4386, "EFFECTS OF CONTROL SYSTEMS FAILURES CORE-MELT FREQUENCIES AT A BABCOCK AND WILCOX PRESSURIZED WATER REACTOR," DECEMBER 1985.	
(11) NUREG/CR-3958, "EFFECTS OF CONTROL SYSTEM FAILURES CORE-MELT FREQUENCIES AT A COMBUSTION ENGINEERING PRESSURIZED WATER REACTOR," MARCH 1986.	
(12) ORNL/NRC/LTR-86119, "GENERIC EXTENSIONS TO PLANT-SPECIFIC FINDINGS OF THE SAFETY IMPLICATIONS OF CONTROL SYSTEMS" (ORNL PROGRAM).	
(13) NUREG-1217, "EVALUATION OF SAFETY IMPLICATIONS OF CONTROL SYSTEMS IN LWR NUCLEAR POWER PLANTS - TECHNICAL FINDINGS RELATED TO USI A-47," FINAL REPORT, JUNE 1989.	
(14) NUREG-1218, "REGULATORY ANALYSIS FOR RESOLUTION OF USI	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: A-47

TITLE: SAFETY IMPLICATION OF CONTROL SYSTEMS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

A-47, " FINAL REPORT: JULY 1989
 (15) GL 89-19, "REQUEST FOR ACTION RELATED TO RESOLUTION OF
 UNRESOLVED SAFETY ISSUE A-47, "SAFETY IMPLICATIONS OF
 CONTROL SYSTEMS IN NUCLEAR POWER PLANTS" PURSUANT TO
 10 CFR 50.54(F)

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DTR ISSUED BY DSRO FOR STAFF COMMENT	09/86	--	09/86
STAFF COMMENTS ON DTR TO DSRO	10/86	--	01/87
ISSUE DTR PACKAGE FOR DIVISION REVIEW AND CONCURRENCE	11/86	--	05/87
DIVISION DEPUTY DIRECTORS REVIEW OF DTR COMPLETED	05/87	--	05/87
CONCURRENCE BY OTHER OFFICES COMPLETED	10/87	--	11/87
ISSUE DTR PACKAGE TO CRGR (29)	01/87	--	11/87
ACRS REVIEW OF DTR COMPLETE	01/87	--	11/87
CRGR REVIEW OF DTR COMPLETE	02/87	--	12/87
FRN OF ISSUANCE OF PROPOSED RESOLUTION FOR PUBLIC COMMENT	03/87	--	05/88
REVISE DTR TO REFLECT PUBLIC COMMENTS AND COMPLETE FTR PACKAGE	06/87	--	12/88
DIVISION DEPUTY DIRECTOR REVIEW COMPLETED	06/87	--	01/89
CONCURRENCE BY OTHER OFFICES COMPLETE	07/87	--	04/89
ACRS REVIEW COMPLETED (53)	10/87	--	06/89

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 85

ISSUE NUMBER: A-47

TITLE: SAFETY IMPLICATION OF CONTROL SYSTEMS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
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OFFICE DIRECTOR SIGNS COMMISSION PAPER	--	--	08/89
ISSUANCE OF GENERIC LETTER AND FRN	11/87	--	09/89

AS OF FY89 QUARTER 4

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-17 TITLE: CRITERIA FOR SAFETY-RELATED OPERATOR ACTIONS
 IDENTIFICATION DATE: 06/78C PRIORITIZATION DATE: 11/83C TYPE: GSI PRIORITY: M
 TASK MANAGER: J. KRAMER OFFICE/DIVISION/BRANCH: RES /DSIR/HFB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 01/92
 WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN (APPENDIX G)

FIN	CONTRACTOR	CONTRACT TITLE
A4659	LLNL	INTEGRATION OF HUMAN PERFORMANCE FACTORS FULLY INTO THE RELIABILITY EVALUATION PROCESS (TASKS 5 AND 6)

WORK SCOPE

THE WORK SCOPE INCLUDES: (1) DEVELOP TIME CRITERION FOR SAFETY RELATED OPERATOR ACTIONS; (2) DETERMINE WHETHER OR NOT AUTOMATIC ACTUATION WILL BE REQUIRED; AND (3) DEVELOP GUIDANCE AND REVIEW CRITERIA FOR LICENSEE PROPOSALS TO USE

MANUAL OPERATOR ACTION OR AUTOMATIC ACTION. THE SCOPE OF THIS GENERIC ISSUE COVERS DESIGN BASIS ACCIDENTS OR EVENTS. CRITERIA FOR SAFETY RELATED OPERATOR ACTIONS DURING SEVERE ACCIDENTS WILL BE COVERED UNDER THE SEVERE ACCIDENT PROGRAM.

STATUS

THIS ISSUE WAS TRANSFERRED FROM NRR TO RES WITH THE 4/87 NRC REORGANIZATION (4/10/87 MEMO FROM W. RUSSELL TO T. SPEIS). NO WORK HAD BEEN COMPLETED ON THE ISSUE PRIOR TO TRANSFER. DURING 1983 AND 1984, RES WORKED ON THIS ISSUE. DURING THAT TIME DATA WERE COLLECTED BY RES CONCERNING OPERATOR RESPONSE TIMES. ANSI/ANS 58.8 WAS PUBLISHED IN SEPTEMBER 1984. THE GENERIC ISSUE WAS LATER TRANSFERRED TO NRR. NO

WORK WAS COMPLETED BY NRR ON THIS ISSUE. WORK HAS BEGUN WHICH SHOULD LEAD TO RESOLUTION OF THIS GSI BY ENDORSING ANSI/ANS 58.8. THIS STANDARD IS BEING REVISED BASED ON NEW INDUSTRY DATA. LLNL BEGAN WORK TO MANAGE THE TECHNICAL EFFORT INVOLVING EPRI AND A SUBCONTRACTOR TO EPRI IN MARCH 1989.

AFFECTED DOCUMENTS

TO BE PROVIDED LATER

PROBLEM/RESOLUTION

NEW TASK MANAGER ASSIGNED DUE TO TRANSFER OF PERSONNEL.

MILESTONES

MEET WITH ANSI/ANS 58.8

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
07/88	--	06/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-17

TITLE: CRITERIA FOR SAFETY-RELATED OPERATOR ACTIONS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DEVELOP TAP	08/87	--	06/89
CLOSEOUT ISSUE	01/92	01/92	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-55 TITLE: IMPROVE RELIABILITY OF TARGET ROCK SAFETY-RELIEF VALVES
 IDENTIFICATION DATE: 06/78C PRIORITIZATION DATE: 11/83C TYPE: GSI PRIORITY: M
 TASK MANAGER: F. CHERNY OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 05/90
 WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN, (APPENDIX G)

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

REVIEW BWR UTILITY APPROACHES TO INCREASING SRV RELIABILITY TO OBTAIN SUFFICIENT DATA BASE TO SUPPORT THE CONCLUSION THAT THIS ISSUE HAS BEEN RESOLVED. THE UTILITY APPROACHES MAY INCLUDE: (1) DEMONSTRATING SUFFICIENT RELIABILITY OF 3-STAGE VALVES BY STRICT

CONFORMANCE TO NSSS VENDOR INSTRUCTIONS, (2) DEMONSTRATING SUFFICIENT RELIABILITY OF 2-STAGE VALVES AFTER DESIGN AND/OR SYSTEM MODIFICATIONS, AND (3) USING DIFFERENT VALVES AND DEMONSTRATING THEIR RELIABILITY.

STATUS

ON 10/25/88, THE BWROG MET WITH STAFF AND PROVIDED A PROGRESS REPORT ON REACTOR AND LAB TEST RESULTS ON THE PH 13-8MO PILOT DISC MATERIAL. THE RESULTS ARE GENERALLY

FAVORABLE, BUT MORE TEST DATA ARE NEEDED BEFORE A FINAL CONCLUSION CAN BE REACHED. THE STAFF ISSUED MINUTES OF THE BWROG MEETING ON 11/29/88.

AFFECTED DOCUMENTS

NONE

PROBLEM/RESOLUTION

PILOT DISCS OF PH 13-MO WILL BE TESTED IN CERTAIN PLANTS WITH THE OBJECTIVE OF ELIMINATING EXCESSIVE SET-POINT DRIFT. AN ADDITIONAL 12 TO 14 MONTHS WILL BE REQUIRED TO OBTAIN MORE REACTOR TEST DATA ON THE PH 13-8MO PILOT DISC MATERIAL. THE SCHEDULE FOR RESOLUTION OF THIS ISSUE WAS EXTENDED 14 MONTHS TO ALLOW FOR INDUSTRY ACCUMULATION OF THE ADDITIONAL DATA. THE SCHEDULE FOR RESOLUTION OF THIS ISSUE IS APPROXIMATE BECAUSE THE OPERATING CYCLE SCHEDULES FOR THE PARTICIPATING UTILITIES ARE GOVERNED BY FACTORS BEYOND THE SCOPE OF ISSUE B-55.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-55

TITLE: IMPROVE RELIABILITY OF TARGET ROCK SAFETY-RELIEF VALVES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
MEETING WITH BWR OWNERS SETPOINT DRIFT COMMITTEE	12/83	--	11/83
BWR OWNERS REPORT SUBMITTED	07/84	--	06/84
BOSTON EDISON REPORT SUBMITTED	--	--	08/84
COMPLETION OF NRR EVALUATION OF OWNERS GROUP AND BOSTON EDISON REPORTS	10/84	--	10/84
COMMUNICATION TO OG RE: NRC COMMENTS/CONCERNS	--	--	03/85
OG PRESENTATION TO THE STAFF	10/85	--	10/85
STAFF RECEIVES OWNERS' PROGRAM FOR ELIMINATING SET POINT DRIFT	10/85	--	10/85
OWNERS BEGIN TO INSTALL NEW PILOT DISKS TO TEST IN PLANT FOR ONE FUEL CYCLE	01/86	--	01/86
ISSUE STATUS REPORT ON INDUSTRY EFFORTS	12/87	--	01/88
ISSUE PROGRESS REPORT ON INDUSTRY EFFORTS	11/88	--	11/88
ISSUE FINAL PROGRESS REPORT ON INDUSTRY EFFORTS	11/89	11/89	--
CLOSEOUT MEMO TO ACRS	03/90	03/90	--
EVALUATE INDUSTRY DATA AND RECOMMENDATIONS AND ISSUE CLOSEOUT MEMO	10/85	05/90	--

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 90

ISSUE NUMBER: B-56 TITLE: DIESEL GENERATOR RELIABILITY
IDENTIFICATION DATE: 06/78C PRIORITIZATION DATE: 11/83C TYPE: MPA PRIORITY: H
TASK MANAGER: A. SERKIZ OFFICE/DIVISION/BRANCH: NRR /DSIR/RPSI ACTION LEVEL: ACTIVE STATUS:
TAC NUMBERS: RESOLUTION DATE: 02/90
WORK AUTHORIZATION: NRR FY-83 OPERATING PLAN (APPENDIX G).

FIN	CONTRACTOR	CONTRACT TITLE
A1806	SNL	GUIDELINES FOR EMERG. DIESEL GENERATOR (EDG) RELIABILITY PROGRAMS
B2937	PNL	AGING CONSIDERATIONS-DIESEL GENERATOR RELIABILITY PROGRAM

W O R K S C O P E

THE WORK SCOPE OF B-56 IS CLOSELY COORDINATED WITH THE RESOLUTION OF USI A-44, STATION BLACKOUT. RESOLUTION OF USI A-44 INCLUDES, AMONG OTHER THINGS, THE NEED FOR A DIESEL RELIABILITY PROGRAM TO MAINTAIN THE RELIABILITY LEVEL OF EMERGENCY DIESEL GENERATORS(EDG) AT OR ABOVE RELIABILITY LEVELS SELECTED FOR RESPONSE TO THE SBO RULE

(10CFR50, SECTION 50.63)

THE CONCLUDING EFFORT ON B-56 WILL BE DIRECTED AT DEFINING THE PRINCIPAL ELEMENTS OF AN EDC RELIABILITY PROGRAM AND TECHNICAL GUIDELINES FOR NRC TO USE IN THE REVISION OF REGULATORY GUIDES. INSPECTION MODULES AND SRP SECTIONS DEEMED APPROPRIATE.

S T A T U S

THE "FOR COMMENT" PERIOD ON R.G. 1.9, REV. 3 (PROPOSED) WAS EXTENDED TO 03/89, AND COMMENTS HAVE BEEN RECEIVED AS LATE AS 05/89. CONTINUING DISCUSSIONS WITH INDUSTRY REPRESENTATIVES ON THIS R.G. HAVE RESULTED IN SIGNIFICANT

REVISIONS AND A "CONCLUDING" DRAFT WAS PREPARED IN JUNE 1989. NUMARC HAS REVISED APPENDIX D OF NUMARC 87-00 TO ASSURE CONSISTENCY WITH R.G. 1.9, REV. 3 (PROPOSED).

AFFECTED DOCUMENTS

REG. GUIDE 1.9 WILL BE UPGRADED. REG. GUIDE 1.108 WILL BE WITHDRAWN, AND REVISIONS TO SRP SECTIONS AND TECH SPECS WILL BE PREPARED BY NRR.

PROBLEM/RESOLUTION

THE CONTINUING DISCUSSIONS WITH INDUSTRY REPRESENTATIVES AND NRR STAFF HAVE TAKEN LONGER THAN PREVIOUSLY PROJECTED. THE TASK MANAGER IS INTERFACING WITH BOTH PARTIES TO DEVELOP A GUIDE THAT IS MUTUALLY ACCEPTABLE. CLOSURE ON THIS MATTER IS PROJECTED FOR NOVEMBER 1989.

AS OF FY89 QUARTER 4

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-56

TITLE: DIESEL GENERATOR RELIABILITY

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DTR IDENTIFIED	02/83	--	02/83
ISSUED BY DSI DIRECTOR FOR STAFF COMMENT	02/83	--	02/83
PACKAGE TO NRR DIRECTOR	04/83	--	03/83
PACKAGE TO CRGR (29)	05/83	--	07/83
CRGR REVIEW COMPLETE	06/83	--	07/83
SCOPE OF ISSUE MODIFIED TO COORDINATE TECHNICAL RESOLUTION OF B-56 WITH USI A-44	09/83	--	09/83
SCOPE OF ISSUE MODIFIED TO CONSIDER NUMBER OF COLD FAST START SURVEILLANCE TESTS	11/83	--	11/83
COORDINATED GSI B-56 AND USI A-44 CRGR PACKAGE SENT TO NRR DIRECTOR	02/84	--	01/84
REVISED PACKAGE TO CRGR	04/84	--	03/84
CRGR REVIEW COMPLETE	05/84	--	05/84
ISSUED 50.54(F) GL 84-15 TO LICENSEES	06/84	--	07/84
RECEIVED PUBLIC COMMENTS	09/84	--	11/84
ISSUED T/A CONTRACT TO BNL	06/85	--	06/85
PUBLISH CONTRACTOR REPORT ON LICENSEE RESPONSE TO 50.54(F)	04/86	--	04/86
REVISE SRPS AND REG. GUIDES (NRR)	03/88	--	05/88
DEVELOP DIESEL GENERATOR RELIABILITY PROGRAM GUIDELINES	10/86	--	04/88
CRGR PACKAGE TO RES DIRECTOR	01/87	--	07/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-56

TITLE: DIESEL GENERATOR RELIABILITY

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PACKAGE TO CRGR/ACRS (53)	03/87	--	08/88
CRGR REVIEW COMPLETE	05/87	--	09/88
ACRS REVIEW COMPLETE	10/88	--	11/88
ISSUE FOR PUBLIC COMMENTS	06/87	--	11/88
PUBLISH NUREG/CR-5078, VOL 2	11/88	--	01/89
RECEIVE PUBLIC COMMENTS	08/87	--	03/89
FTR TO RES DIRECTOR	09/87	--	06/89
FTR TO CRGR/ACRS	10/87	--	08/89
ACRS/CRGR REVIEW COMPLETE	10/89	10/89	--
ISSUE FRN AND REG. GUIDE	04/89	02/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-61 TITLE: ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS
 IDENTIFICATION DATE: 06/78C PRIORITIZATION DATE: 11/83C TYPE: GSI PRIORITY: M
 TASK MANAGER: R. BUSLIK OFFICE/DIVISION/BRANCH: RES /DRAA/PRAB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 04/90
 WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN (APPENDIX G)

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

IN GENERAL, PLANTS WILL BE CLASSIFIED SUCH THAT IN EACH CLASS SIMILAR ECCS OUTAGE UNAVAILABILITIES WILL HAVE SIMILAR IMPACTS ON RISK. THE EFFECT OF A GIVEN ECCS AVAILABILITY ON RISK WILL BE DETERMINED, FOR EACH CLASS OF PLANT, AS WELL AS THE IMPACTS OF ANY

CHANGES IN ALLOWABLE ECCS OUTAGE PERIOD. CONSIDERATION OF SUPPORT SYSTEM OUTAGES MUST BE INCLUDED. DETAILS OF THE WORK SCOPE ARE CONTAINED IN THE DRAFT ACTION PLAN.

STATUS

TASK I HAS BEEN COMPLETED.

AFFECTED DOCUMENTS

TECHNICAL SPECIFICATION CHANGES ARE POSSIBLE.

PROBLEM/RESOLUTION

ALTHOUGH TASK I, METHODOLOGY REVIEW AND DEVELOPMENT, IS LISTED AS COMPLETED, NO METHODOLOGY FOR THE ANALYSIS OF THE COSTS TO THE UTILITY OF THE IMPLEMENTATION OF A CUMULATIVE OUTAGE REQUIREMENT HAS BEEN DEVELOPED. ALSO, THE FINAL REPORT FROM BNL ON THIS TASK HAS NOT BEEN RECEIVED, ALTHOUGH A DRAFT REPORT HAS BEEN RECEIVED. THE MAJOR PROBLEM ASSOCIATED WITH B-61 RESOLUTION IS THE ANALYSIS OF THE COSTS AND BENEFITS OF THE IMPOSITION OF A CUMULATIVE OUTAGE REQUIREMENT. THE CONSIDERATION OF ANALYTICALLY BASED CUMULATIVE OUTAGE REQUIREMENTS WAS INCORPORATED INTO B-61 AS PART OF THE RESOLUTION OF TMI ACTION ITEM II K.3.17. (SEE MEMORANDUM FOR G. C. LAINAS FROM F. H. ROWSOME, DATED JUNE 17, 1983.) NO WORK HAS BEEN PERFORMED ON TASK II OF THIS

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-61

TITLE: ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

GENERIC ISSUE, BECAUSE OF FUNDING CONSTRAINTS, AND PERCEIVED PRIORITIES FOR THE ALLOCATION OF FUNDS.
 WE ARE ROUGHLY AT THE NOVEMBER 1984 POINT OF THE ORIGINAL SCHEDULE, EXCEPT THAT A METHODOLOGY FOR THE ESTIMATE OF COSTS OF THE IMPOSITION OF A CUMULATIVE OUTAGE REQUIREMENT HAS NOT BEEN DEVELOPED. IF WORK WERE TO BEGIN TODAY ON THE ISSUE, ISSUE COMPLETION IN APRIL 1990 MIGHT BE REASONABLE, IF THE ORIGINAL TIME ESTIMATES ARE CORRECT. HOWEVER, AN ATTEMPT AT EXPEDITING THE SCHEDULE BY PERFORMING SOME WORK IN-HOUSE WILL BE MADE.

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DRAFT TAP ISSUED FOR DD APPROVAL	01/84	--	01/84
COMPLETE COORDINATION OF TECHNICAL RESOLUTION WITH RES	04/84	--	08/84
TAP APPROVED BY DIVISION DIRECTOR	05/84	--	07/84
TASK I-METHODOLOGY REVIEW AND DEVELOPMENT COMPLETED	11/84	--	04/85
TASK II-APPLY TO A PWR OR BWR	02/85	10/89	--
APPLY METHODOLOGY TO A SELECTION OF PLANTS	08/85	10/89	--
DEVELOP AN INITIAL RECOMMENDATION FOR STAFF COMMENTS	08/87	10/89	--
PREPARE DTR	04/86	10/89	--
PREPARE CRGR PACKAGE	06/86	10/89	--
REVIEW OF CRGR PACKAGE BY DIVISION DIRECTORS	07/86	10/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-61

TITLE: ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
RES DIRECTOR REVIEW COMPLETE/ PACKAGE TO CRGR	08/86	19/89	--
CRGR REVIEW AND EDO APPROVAL COMPLETED	09/86	10/89	--
ISSUANCE OF FRN FOR PUBLIC COMMENT	11/86	10/89	--
SIXTY-DAY COMMENT PERIOD ENDS	01/87	12/89	--
DIVISION REVIEW OF PUBLIC COMMENTS COMPLETED, AND FINAL CRGR PACKAGE COMPLETED	02/87	01/90	--
RES REVIEW OF CRGR PACKAGE COMPLETED (DIVISION REVIEW AND RES DIRECTOR REVIEW)	04/87	02/90	--
CRGR REVIEW AND EDO APPROVAL COMPLETED	05/87	03/90	--
ISSUANCE OF PROPOSED CHANGES TO TECHNICAL SPECIFICATIONS	07/87	04/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-64 TITLE: DECOMMISSIONING OF REACTORS
 IDENTIFICATION DATE: 06/78C PRIORITIZATION DATE: 11/83C TYPE: GSI PRIORITY:
 TASK MANAGER: F. CARDILE OFFICE/DIVISION/BRANCH: NMSS/LLWM/LLRB ACTION LEVEL: ACTIVE STATUS: NR
 TAC NUMBERS: RESOLUTION DATE: 03/90
 WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN, (APPENDIX G).

FIN	CONTRACTOR	CONTRACT TITLE
B2342	PNL	DECONTAMINATION AND DECOMMISSIONING REVIEW

W O R K S C O P E

DEVELOP A GENERAL DECOMMISSIONING POLICY, PREPARE THE ATTENDENT CHANGES IN REGULATIONS, DEVELOP THE DETAILED INFORMATION NEEDED FOR USE IN LICENSING DECISIONS FOR

DECOMMISSIONING, AND ESTABLISH GUIDANCE FOR FACILITATION OF DECOMMISSIONING.

S T A T U S

FINAL RULE CHANGES WERE AFFIRMED BY THE COMMISSION ON MAY 12, 1988 AND PUBLISHED IN THE FR ON JUNE 27, 1988. NRC DECOMMISSIONING RESPONSIBILITIES WERE TRANSFERRED

TO NMSS. NMSS REQUESTED RES TO PREPARE SRP. THE SRP WILL BE ISSUED WITHIN FOURTEEN MONTHS OF THE PUBLICATION OF THE FINAL RULE.

AFFECTED DOCUMENTS

- (1) 10 CFR PARTS 50 AND 51 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) NEW STANDARD REVIEW PLAN FOR DECOMMISSIONING REVIEW.

PROBLEM/RESOLUTION

*** NONE ***

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
CRGR REVIEW COMPLETED ON DECOMMISSIONING RULE (29)	08/84	--	08/84

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: B-64

TITLE: DECOMMISSIONING OF REACTORS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
EDO APPROVAL OF DECOMMISSIONING - SECY - 34-354	09/84	--	09/84
COMMISSION APPROVAL OF SECY-84-354	12/84	--	12/84
ISSUANCE OF DRAFT RULE CHANGE FOR PUBLIC COMMENT	02/85	--	02/85
FORMAT AND CONTENT FOR DECOMMISSIONING	02/84	--	06/85
EXTENDED PUBLIC COMMENT PERIOD ON RULE COMPLETE	07/85	--	07/85
ISSUE TRANSFER MEMO TO RES (SRP)	01/86	--	01/86
REVISE DRAFT RULE INCORPORATING PUBLIC COMMENTS PREPARE FOR RES MANAGEMENT REVIEW	02/86	--	11/86
REVISE DRAFT RULES/PUBLIC COMMENTS REVIEWED AND APPROVED BY CRGR (53)	08/86	--	08/87
FTR TO EDO FOR TRANSMITTAL TO COMMISSION	10/86	--	12/87
FRN OF FINAL RULE	01/87	--	06/88
SRP TO DIVISION FOR REVIEW	06/89	--	09/89
ISSUE SRP CHANGE	01/89	03/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: C-8

TITLE: MAIN STEAM LINE LEAKAGE CONTROL

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
RECEIVE INITIAL BWROG SUBMITTAL	04/84	--	04/84
REVISE WORK PLAN BASED ON SUBMITTAL	05/84	--	05/84
REVISED WORK PLAN APPROVED BY DD	06/84	--	06/84
REVISED TA REQUEST APPROVED BY DD	08/84	--	07/84
COMPLETE REVIEW OF LITERATURE SEARCH	08/84	--	08/84
COMPLETE REVIEW OF BWROG RECOMMENDATIONS	09/84	--	06/85
REVIEW PNL MODEL FOR FILLING, DEPOSITION AND RELEASE PROCESSES IN BWR STEAM LINES UNDER LEAKING MSIV CONDITIONS.	07/85	--	08/85
COMPLETE REVIEW OF EFFECTIVENESS OF BWROG RECOMMENDATIONS	10/84	--	11/85
COMPLETE REVIEW OF PRA STUDY OF DIFFERENT ALTERNATIVES	11/84	--	11/85
COMPLETE REV. OF: (1) BASELINE OFFSITE DOSE CALCS, (2) THERM-HYD MODEL, (3)ALT. OFF SITE DOSE CALCS TO DETER. EFFECTS OF LOCA	03/85	--	11/85
COMPLETE REVIEW OF COMPARTMENT CONTAMINATION	10/85	--	11/85
COMPLETE NUREG	12/85	--	06/86
ISSUE MEMORANDUM TO NOTIFY CRGR OF INTENT TO PUBLISH NUREG-1169 AND ISSUE A GENERIC LETTER FOR INFORMATION ONLY	07/86	--	08/86
ISSUE TRANSFER MEMO TO DSRO (EFFECTIVE AFTER ISSUANCE OF GENERIC LETTER)	08/86	--	08/86
COMPLETE REVIEW OF LITERATURE SEARCH	08/84	--	08/84

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: C-8

TITLE: MAIN STEAM LINE LEAKAGE CONTROL

----- M I L E S T O N E S -----	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
CRGR RESPONSE TO ISSUE GENERIC LETTER AND PUBLISH NUREG-1169, CRGR BRIEFING	09/86	--	09/86
INCORPORATE CRGR COMMENTS AND ISSUE GENERIC ISSUE LETTER TO BWR LICENSEES FOR INFORMATION	10/86	--	10/86
PNL DRAFT REG. ANALYSIS TO RES FOR COMMENT	10/86	--	11/86
PNL FINAL REG. ANALYSIS TO RES	12/86	--	01/87
RES COMMENTS TO PNL ON FINAL REG. ANALYSIS RES REQUESTED BWR OWNERS GROUP PROVIDE MSIV LEAKAGE DATA	02/87	--	02/87
MEETING WITH BWROG	08/87	--	08/87
PRELIMINARY BWROG MSIV DATA	05/87	--	03/88
FINAL BWROG MSIV DATA DRAFT V/I FROM PNL	03/87	--	08/88
COMMENTS ON DRAFT FTR SENT TO PNL	09/88	--	09/88
V/I COMPLETED BY PNL SENT TO EDO	10/88	--	03/89
PUBLISH DRAFT NUREG/CR DRAFT REG. ANALYSIS COMPLETED BY RPSIB	04/89	--	06/89
RES DIRECTOR REVIEW COMPLETED 07/89, ACRS REVIEW COMPLETED 08/89, CLOSE OUT TO EDO	04/89	--	08/89
MEMO FROM EDO RECEIVED 09/89; RESPONSE TO EDO	10/89	10/89	--
COMMENTS ON DRAFT FTR SENT PNL TO RES DIRECTOR	09/88	--	09/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: C-8

TITLE: MAIN STEAM LINE LEAKAGE CONTROL

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
V/I COMPLETED BY PNL SENT TO EDO	10/88	10/88	--
DRAFT REGULATORY ANALYSIS COMPLETED BY RPSIB	10/88	10/88	--
RES DIRECTOR REVIEW COMPLETE	03/86	11/88	--
CLOSE OUT ISSUE	04/89	04/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: HF 4.4 TITLE: GUIDELINES FOR UPGRADING OTHER PROCEDURES
 IDENTIFICATION DATE: 08/83C PRIORITIZATION DATE: 10/84C TYPE: GSI PRIORITY: H
 TASK MANAGER: J. WACHTEL OFFICE/DIVISION/BRANCH: RES /DSR /HFB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 11/89
 WORK AUTHORIZATION: MEMO FOR H. THOMPSON FROM H. DENTON DATED 10/1/84.
 "HUMAN FACTORS PROGRAM PLAN"

FIN	CONTRACTOR	CONTRACT TITLE
B2360	PNL	DEVELOP GUIDANCE AND REGULATORY ACTION FOR OPS & AOPS
B2935	PNL	VALVE IMPACT ASSESSMENT OF PLANT OPERATING PROCEDURES
B2966	PNL	DEVELOP GUIDANCE & REGULATORY ACTION FOR OPS & AOPS
I2005	PNL	DEVELOP GUIDANCE & REGULATORY ACTION FOR OPS & AOPS

WORK SCOPE

RECOMMEND IMPROVEMENTS IN NUCLEAR POWER PLANT OPERATING PROCEDURES AND DEVELOP AN IMPLEMENTATION PLAN FOR UPGRADING OPERATING PROCEDURES. NRC WILL DETERMINE THE AMOUNT OF UPGRADE EFFORT NECESSARY FOR EACH TYPE OF PROCEDURE BASED ON A CONTRACTOR INTERIM REPORT AND INDUSTRY INPUTS WITH RESPECT TO COST AND BENEFITS.

STATUS

THIS ISSUE WAS TRANSFERRED FROM NRR TO RES WITH THE 4/12/87 NRC REORGANIZATION (4/10/87 MEMO FROM W. RUSSELL TO T. SPEIS). CONTRACTOR EFFORTS ON FIN B2360/PNL AND FIN B2966/PNL WERE COMPLETED AT THAT TIME. NUREG/CR'S-3968 AND -4613 WERE PUBLISHED IN FEBRUARY 1987 AS A RESULT OF WORK UNDER THESE FINs. REVIEW OF NUREG/CR'S-3968 AND -4613 PRIOR TO THE NRC REORGANIZATION INDICATED THE NEED FOR A REGULATORY ANALYSIS OF THIS ISSUE. NRR AWARDED AN ADDITIONAL CONTRACT TO PNL IN JUNE 1987 TO CONDUCT THAT ANALYSIS UNDER FIN I-2005. RESPONSIBILITY FOR THAT CONTRACT WAS TRANSFERRED TO RES BY NOVEMBER 16, 1987 MEMORANDUM FROM L. RUTH TO M. KALTMAN. A NEW RES TASK MANAGER WAS ASSIGNED, AND THE SCHEDULE, BUDGET, AND SCOPE WERE REVISED IN JULY 1988.

AFFECTED DOCUMENTS

POSSIBLE REVISION TO SRP SECTION 13.5.2

PROBLEM/RESOLUTION

DIFFICULTIES WERE ENCOUNTERED IN OBTAINING A PASSWORD FOR THE CONTRACTOR TO ACCESS THE SCS DATABASE. THESE HAVE BEEN RESOLVED, BUT HAVE CAUSED A SLIPPAGE IN THE SCHEDULE.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: HF 4.4

TITLE: GUIDELINES FOR UPGRADING OTHER PROCEDURES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
PUBLISH FINAL REPORT ON OPERATING PROCEDURES PROJECT AS NURFG/CR	12/85	--	02/87
PUBLISH FINAL REPORT ON PROCEDURES INTERFACE PROJECT AS NUREG/CR	05/86	--	02/87
CONDUCT REGULATORY ANALYSIS FOR OPERATING PROCEDURES, ABNORMAL OPERATING PROCEDURES	02/87	--	07/89
DEVELOP PLAN FOR REGULATORY GUIDANCE	06/89	--	09/89
CLOSE OUT ISSUE	06/89	11/89	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: HF 5.1

TITLE: LOCAL CONTROL STATIONS

M I L E S S O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
BEGIN VALUE/IMPACT STUDY OF LOCAL CONTROL STATIONS	02/88	--	05/88
COMPLETE VALUE/IMPACT STUDY	07/88	--	02/89
NRC COMPLETE REVIEW OF STUDY RESULTS	09/88	--	02/89
COMPLETE DEVELOPMENT OF REVIEW GUIDELINES AND DRAFT MODIFICATION TO SRP AND DRAFT REGULATORY GUIDES	09/89	--	09/89
REVIEW OF DRAFT REG. GUIDE AND DRAFT MODIFICATION TO SRP BY DIVISION DIRECTOR	11/89	11/89	--
REVIEW OF DRAFTS BY OFFICE DIRECTOR	12/89	12/89	--
REVIEW OF DRAFTS BY OTHER OFFICES	12/89	12/89	--
REVIEW OF DRAFTS BY ACRS	01/90	01/90	--
REVIEW OF DRAFTS BY CRGR (29)	02/90	02/90	--
FINAL REG. GUIDE AND MODIFICATION TO SRP	04/90	04/90	--
REVIEW OF FINALS BY DIVISION DIRECTOR	05/90	05/90	--
REVIEW OF FINALS BY OFFICE DIRECTOR	06/90	06/90	--
REVIEW OF FINALS BY OTHER OFFICES	06/90	06/90	--
REVIEW OF FINALS BY ACRS	07/90	07/90	--
REVIEW OF FINALS BY CRGR (53)	08/90	08/90	--
ISSUE SRP MODIFICATION AND REG. GUIDE	09/90	09/90	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: FF 5.2 TITLE: REV. CRIT. FOR HUMAN FACTORS ASPECTS OF ADV CONTROLS AND INSTRUMENT.
 IDENTIFICATION DATE: 08/83C PRIORITIZATION DATE: 10/84C TYPE: GSI PRIORITY: H
 TASK MANAGER: J. KRAMER OFFICE/DIVISION/BRANCH: RES /DSR /HFB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 05/91
 WORK AUTHORIZATION: MEMO TO H. THOMPSON FROM H. DENTON DATED 10/1/84,
 "HUMAN FACTORS PROGRAM PLAN"

FIN	CONTRACTOR	CONTRACT TITLE
A3967	BNL	ANNUNCIATORS

WORK SCOPE

THIS ISSUE COMBINES THE ISSUES FROM THE HUMAN FACTORS PROGRAM PLAN OF SECTION 1.5.2

- (A) COMPUTER AND COMPUTER DISPLAYS
- (B) EVALUATION OF OPERATOR AID SYSTEMS
- (C) ANNUNCIATORS
- (D) SAFETY STATUS INDICATION AND APPLICATIONS OF AUTOMATION AND ARTIFICIAL INTELLIGENCE

A MANAGEMENT REVIEW OF THESE ISSUES RESULTED IN A DECISION TO RETAIN ONLY THE ANNUNCIATOR ISSUE AS A GENERIC ISSUE. THIS DECISION ALSO CONCLUDED THAT THE REMAINING ISSUES BE REASSIGNED AS RESEARCH ISSUES. A RESEARCH PROJECT ENTITLED "REVIEW CRITERIA FOR HUMAN FACTORS ASPECTS OF ADVANCED CONTROL AND INSTRUMENTATION," FIN B0852, ADDRESSES THESE ISSUES.

THE GOAL OF THIS WORK IS TO DETERMINE THE RISK TO PUBLIC HEALTH AND SAFETY RESULTING FROM HUMAN ERROR IN THE

USE OF INFORMATION FROM CONTROL BOARD ANNUNCIATORS. THE RESULTS FROM A PRA ESTABLISHED THE MAGNITUDE OF THE RISK INVOLVED AND THE POTENTIAL REDUCTION IN RISK EXPECTED. A VALUE/IMPACT ANALYSIS WAS COMPLETED AND ESTIMATED THE COST OF POTENTIAL MODIFICATIONS TO ANNUNCIATORS.

THE RESULTS OF THE VALUE/IMPACT ANALYSIS REQUIRE THAT ADDITIONAL EXPERIMENTAL WORK ON ANNUNCIATOR UPGRADES BE CONDUCTED ON A TTC SIMULATOR TO RESOLVE THE ANNUNCIATOR ISSUE. IN EVALUATING ALARM REDUCTION TECHNIQUES, WE ALSO PLAN TO USE THE RESEARCH RESULTS ON ADVANCED ALARM SYSTEMS CONDUCTED AT THE HALDEN PROJECT. THE RESULTS FROM THIS EFFORT WILL DEVELOP GUIDELINES ON COMPUTER-BASED ANNUNCIATOR SYSTEMS. THESE GUIDELINES WILL SERVE AS THE BASIS FOR A MODIFICATION TO THE STANDARD REVIEW PLAN AND FOR A NUREG ON ANNUNCIATORS.

STATUS

A SOW FOR THE VALUE/IMPACT STUDY EXISTS BY LETTER DATED DECEMBER 29, 1987. THE SOW WAS FORWARDED TO BNL PROJECT AND BUDGET PROPOSAL FOR NRC WORK (NRC FORM 189) RECEIVED MARCH 7, 1988. BNL STARTS WORK IN APRIL, 1988 AND

IS ON SCHEDULE. VALUE/IMPACT STUDY WAS COMPLETED IN NOVEMBER 1988 AND PLANNING FOR THE ALARM REDUCTION STUDY IN MARCH 1989.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: HF 5.2 TITLE: REV. CRIT. FOR HUMAN FACTORS ASPECTS OF ADV CONTROLS AND INSTRUMENT.

AFFECTED DOCUMENTS

- (1) STANDARD REVIEW PLAN
- (2) A NUREG (TO BE DETERMINED)

M I L E S T O N E S

BEGIN VALUE/IMPACT STUDY OF ANNUNCIATORS
 COMPLETE VALUE/IMPACT STUDY
 NRC COMPLETES REVIEW OF STUDY RESULTS
 ISSUE SOW FOR ALARM REDUCTION EVALUATION
 BEGIN ALARM REDUCTION STUDY
 COMPLETE ALARM REDUCTION STUDY
 DRAFT SRP MODIFICATION
 DRAFT NUREG COMPLETED
 REVIEW OF DRAFTS BY DIVISION DIRECTOR
 REVIEW OF DRAFTS BY OFFICE DIRECTOR
 REVIEW OF DRAFTS BY OTHER OFFICES
 REVIEW OF DRAFTS BY ACRS
 REVIEW OF DRAFTS BY CRGR (29)
 FINAL SRP MODIFICATION AND FINAL NUREG
 REVIEW OF FINALS BY DIVISION DIRECTOR
 REVIEW OF FINALS BY OFFICE DIRECTOR
 REVIEW OF FINALS BY OTHER OFFICES

PROBLEM/RESOLUTION

189 RECEIVED FROM CONTRACTOR ON 3/7/88 CAUSING 2 MONTH SLIP.
 NEW TASK MANAGER ASSIGNED DUE TO OF PERSONNEL.

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
02/88	--	04/88
07/88	--	10/88
09/88	--	11/88
11/88	--	01/89
01/89	--	03/89
11/89	01/90	--
04/90	06/90	--
04/90	06/90	--
05/90	07/90	--
06/90	08/90	--
06/90	08/90	--
07/90	09/90	--
08/90	10/90	--
10/90	12/90	--
11/90	01/91	--
12/90	02/91	--
12/90	02/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: HF 5.2

TITLE: REV. CRIT. FOR HUMAN FACTORS ASPECTS OF ADV CONTROLS AND INSTRUMENT.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
REVIEW OF FINALS BY ACRS	01/91	03/91	--
REVIEW OF FINALS BY CRGR (53)	02/91	04/91	--
ISSUE SRP MODIFICATION AND NUREG	03/91	05/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: I.D.3 TITLE: SAFETY SYSTEM STATUS MONITORING
 IDENTIFICATION DATE: 05/80C PRIORITIZATION DATE: 11/83C TYPE: GSI PRIORITY: M
 TASK MANAGER: S. AGGARWAL OFFICE/DIVISION/BRANCH: RES /DE /EMEB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: _____
 WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN	CONTRACTOR	CONTRACT TITLE
B2360	PNL	VERIFICATION, SYSTEM STATUS, AUTOMATIC VS. MANUAL

W O R K S C O P E

PNL HAS REVIEWED THE EFFECTIVENESS OF SYSTEMS AND PROCEDURES RELATED TO SAFETY SYSTEM STATUS MONITORING AND HAS RECOMMENDED A REGULATORY POSITION ON THIS ISSUE. PNL FINDINGS INDICATE THAT A REVISION OF R.G. 1.47 IS

NECESSARY AND FURTHER THAT THIS NEW REVISION SHOULD BE APPLIED TO ALL PLANTS. BASED ON THE PNL RECOMMENDATIONS, DHFS TRANSFERRED RESPONSIBILITY FOR THIS ISSUE TO RES (REVISE R.G. 1.47).

S T A T U S

ALL TECHNICAL REPORTS ON THIS ISSUE ARE COMPLETE. THE PROJECT FINAL REPORT INCLUDES GUIDELINES FOR IMPROVING SYSTEM STATUS MONITORING AS WELL AS THE FINAL RECOMMENDATION OF PNL ON A REGULATORY POSITION. THEIR RECOMMENDATION IS TO REVISE R.G. 1.47 AND APPLY IT TO ALL PLANTS. STAFF PROPOSES TO APPLY NEW REQUIREMENTS FOR FUTURE PLANTS ONLY. COMPLIANCE BY OL'S WILL BE VOLUNTARY.

A DRAFT OF THE PROPOSED REVISION 1 TO R.G. 1.47 WAS DISTRIBUTED IN JULY, 87 FOR STAFF REVIEW. A MEETING WAS HELD ON SEPTEMBER 23, 1987 TO RESOLVE NRR (HUMAN FACTORS ASSESSMENT BRANCH) PERTAINING TO PROPOSED REVISION 1. STAFF CONSENSUS IS HOWEVER NOT REACHED. NRR HAS INDICATED RENEWED SUPPORT FOR THIS EFFORT. MEETING IS SCHEDULED FOR AUGUST 3, 1989, TO REACH STAFF CONSENSUS.

AFFECTED DOCUMENTS

REVISION TO R.G. 1.47.

PROBLEM/RESOLUTION

THE TECHNICAL RESOLUTION OF THIS ISSUE WILL BE THE DEVELOPMENT OF AN NRC POSITION REGARDING THE NEED TO REVISE R.G. 1.47

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: I.D.3 TITLE: SAFETY SYSTEM STATUS MONITORING

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE DRAFT REPORT OF CURRENT INDUSTRY PRACTICES	06/82	--	06/82
SUBMIT PRELIMINARY RECOMMENDATION FOR REGULATORY POSITION	09/82	--	09/82
SUBMIT TECH REPORT ON EFFECTIVENESS OF EXISTING SYSTEMS	11/82	--	11/82
SUBMIT REPORT ON EFFECTIVENESS OF VERIFICATION PROCEDURES	12/82	--	12/82
SUBMIT DRAFT ACCEPTANCE CRITERIA	04/83	--	04/83
SUBMIT DRAFT GUIDELINES FOR "INTERIM" IMPROVEMENT	07/83	--	07/83
SUBMIT PROGRAM PLAN FOR DEVELOPING "FULL IMPLEMENTATION" GUIDELINES	09/83	--	11/83
SUBMIT FINAL RECOMMENDATIONS FOR REGULATORY POSITION	09/83	--	02/84
COMPLETE DRAFT MEMO TRANSFERRING ISSUE TO RES	06/84	--	06/84
TRANSFER MEMO APPROVED BY DD'S	07/84	--	10/84
TRANSFER MEMO TO RES APPROVED BY NRR DIRECTOR	08/84	--	10/84
RES PROVIDED MILESTONE NECESSARY TO COMPLETE ISSUE AND OUTLINED PROBLEMS WITH ISSUING REG GUIDE REVISION	09/84	--	04/85
ISSUED MEMO FOR PROVIDING MILESTONES	11/85	--	11/85
PREPARE TASK CONTROL FORM (TCF)	10/85	--	03/86
OBTAIN TCF APPROVAL	10/85	--	05/86

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: I.D.3

TITLE: SAFETY SYSTEM STATUS MONITORING

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
RES PROVIDES NEW MILESTONE DATES NECESSARY TO RESOLVE ISSUE	05/86	--	01/87
INITIAL DRAFT COMPLETE (INFO COPY TO CRGR/ACRS)	10/85	--	07/87
DIVISION REVIEW COMPLETE	10/85	TBD	--
DEVELOP REGULATORY ANALYSIS	03/86	TBD	--
OFFICE CONCURRENCE OF CRGR PACKAGE	02/88	TBD	--
CRGR, EDO, ACRS, REVIEW/APPROVAL (29)	07/86	TBD	--
RESOLUTION OF COMMENTS	09/86	TBD	--
PRINTING & DISTRIBUTION AUTHORIZED	09/86	TBD	--
PRINTED & ISSUED FOR COMMENT	10/86	TBD	--
COMMENT PERIOD	01/87	TBD	--
RESOLUTION OF COMMENTS	02/87	TBD	--
DIVISION OF ELD REVIEW COMPLETE	04/87	TBD	--
CRGR REVIEW COMPLETE (53)	07/87	TBD	--
ACRS REVIEW COMPLETE	07/87	TBD	--
RESOLUTION OF COMMENTS	09/87	TBD	--
OFFICE CONCURRENCE OBTAINED	10/87	TBD	--
PRINTED AND ISSUED	12/87	TBD	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: I.D.5(3)

TITLE: ON-LINE REACTOR SURVEILLANCE SYSTEMS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
INSTALL SYSTEM AT A PWR	--	--	09/86
COMPLETE PWR DATA ACQUISITION	06/84	--	01/84
INSTALL SYSTEM AT A BWR	04/84	--	06/85
REMOVAL OF SYSTEM FROM PEACH BOTTOM	12/88	--	04/89
ISSUE RIL TO NRR WITH CONCLUSIONS AND RECOMMENDATIONS	09/88	12/89	--
ISSUE CLOSE OUT	12/88	12/89	--

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 114

ISSUE NUMBER: I.D.5(5) TITLE: DISTURBANCE ANALYSIS SYSTEMS
 IDENTIFICATION DATE: 05/80C PRIORITIZATION DATE: 11/83C TYPE: LI PRIORITY:
 TASK MANAGER: L. BELTRACCHI OFFICE/DIVISION/BRANCH: RES /DSR /HFB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: RESOLUTION DATE: 11/89
 WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN	CONTRACTOR	CONTRACT TITLE
B0852	ORNL	REV. CRIT FOR HUMAN FACTORS ASPECTS OF ADVANCED CONTROLS & INSTRUM

WORK SCOPE

THOSE FACETS OF THE DISTURBANCE ANALYSIS SYSTEM (DAS) DEALING WITH UPSET DIAGNOSIS AND REMEDIAL ACTION ARE BASED ON DETAILED LOGIC MODELS THAT TRACE THE TIME-DEPENDENT CONSEQUENCES OF COMPONENT FAILURES. THE

DIFFICULTIES IN GENERATING AND VERIFYING THE ACCURACY OF THE LOGIC MODELS MUST BE OVERCOME BEFORE APPLYING A DAS TO A COMMERCIAL REACTOR ON A TOTAL PLANT BASIS.

STATUS

BY MEMORANDUM DATED DECEMBER 12, 1987 (FOR THEMIS P. SPEIS, FROM BRIAN W. SHERON, SUBJECT: RECOMMENDED CONVERSION OF GENERIC ISSUES TO RESEARCH ISSUES) SPEIS AGREES WITH THE DIVISION OF REACTOR AND PLANT SYSTEMS RECOMMENDATION THAT THIS ISSUE BE RECLASSIFIED AS A RESEARCH ISSUE. THE REASON GIVEN FOR THE RECOMMENDATION IS THE NEED FOR SPECIFIC RESEARCH TO DETERMINE IF A SAFETY PROBLEM

EXISTS IN THIS AREA. A CURRENTLY FUNDED RESEARCH PROJECT, FIN 0852, REVIEW CRITERIA FOR HUMAN FACTORS ASPECTS OF ADVANCED CONTROLS AND INSTRUMENTATION, WILL EVALUATE DISTURBANCE ANALYSIS SYSTEMS ALONG WITH OTHER ADVANCED TECHNOLOGIES, SUCH AS COMPUTER-BASED OPERATOR AIDS AND ARTIFICIAL INTELLIGENCE. THIS ISSUE WILL CONTINUE TO BE TRACKED AS A LICENSING ISSUE TO FOLLOW THE RESEARCH WORK.

AFFECTED DOCUMENTS

NONE

PROBLEM/RESOLUTION

NONE

MILESTONES

FINAL REPORT FROM CONTRACTOR ON RESULTS OF SURVEY ON HUMAN FACTORS OF ADVANCED CONTROLS/ INSTRUMENTATION

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
06/89	11/89	--

AS OF FY89 QUARTER 4

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.B.5(1) TITLE: BEHAVIOR OF SEVERELY DAMAGED FUEL
 IDENTIFICATION DATE: 05/80C PRIORITIZATION DATE: 11/83C TYPE: LI PRIORITY:
 TASK MANAGER: F. COSTANZI OFFICE/DIVISION/BRANCH: RES /DSR /AEB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: RESOLUTION DATE: 06/94
 WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN	CONTRACTOR	CONTRACT TITLE
NONE	NONE	NONE

WORK SCOPE

ISSUES II.B.5(1) AND II.B.5(2) ARE BEING RESOLVED TOGETHER. RESEARCH IS BEING PERFORMED ON PHENOMENA ASSOCIATED WITH CORE DEGRADATION, FUEL MELTING, AND EX-VESSEL PHENOMENA. CONDUCT AN EXTENSIVE EXPERIMENTAL AND ANALYTICAL PROGRAM ON THE BEHAVIOR OF DAMAGED FUEL, HYDROGEN GENERATION AND CONTROL, FUEL STRUCTURE INTERACTION,

CONTAINMENT ANALYSIS, AND FISSION PRODUCT RELEASE AND TRANSPORT AS DESCRIBED IN DETAIL IN SECY-86-369. THIS PROGRAM INVOLVES BOTH IN-PILE AND OUT-OF-PILE TESTS WITH ACTUAL AND SIMULATED CORE AND REACTOR STRUCTURAL MATERIALS, AND THE DEVELOPMENT CODES TO MODEL THE PHENOMENA EXPECTED IN THE REACTOR.

STATUS

NUREG-0956 IDENTIFIED EIGHT AREAS OF UNCERTAINTY IN REGULATORY INFORMATION NEEDED TO RESOLVE THE SOURCE TERM ISSUE. THE RESEARCH PROGRAM FOR FY 1987 AND OUT YEARS IS BEING REORIENTED TO RESOLVE THOSE AREAS OF UNCERTAINTY. SECY-86-369 PROVIDES THE INITIAL RESEARCH PLAN. AN EVALUATION OF THE RESEARCH RESOLUTION OF THESE AREAS OF UNCERTAINTY HAS BEEN CONDUCTED BY BNL, AND WAS REPORTED IN APRIL 1987 AS NUREG/CR-4883. THE STAFF HAS USED THIS EVALUATION TO EXAMINE THE NEED TO MAKE FURTHER REORIENTATION OF THE RESEARCH PROGRAM TO ASSURE THE MOST COMPLETE ISSUE RESOLUTION POSSIBLE, GIVEN AVAILABLE RESOURCES. THIS REVISED PROGRAM HAS BEEN DOCUMENTED IN A COMMISSION PAPER WHOSE ISSUANCE HAS BEEN DEFERRED TO THE EDO. THE NEED FOR A COMMISSION PAPER ON THE REVISED PROGRAM IS UNDER REVIEW BY EDO, IN LIGHT OF THE ISSUANCE OF SECY 88-147 (INTEGRATION PLAN FOR CLOSURE OF SEVERE ACCIDENT ISSUES). REACTOR RISK

REFERENCE DOCUMENT, NUREG-1150, DRAFT FOR COMMENT WAS MAILED OUT IN MARCH 1987 TO OVER 900 NRC, INDUSTRY, UNIVERSITY, AND FOREIGN ADDRESSES. THE COMMENT PERIOD ENDED ON 8/21/87. MEANWHILE, RISK ANALYSIS OF A SIXTH PLANT (LASALLE) IS UNDERWAY AND EXTERNAL EVENTS ANALYSIS OF TWO OF THE FIRST FIVE PLANTS WILL BE DONE. THE LASALLE STUDY WILL BE PUBLISHED SEPARATELY FROM NUREG-1150. THIS GENERIC ISSUE WILL BE CLOSED OUT (IN A LETTER TO EDO) AND ITS RESOLUTION WILL CONTINUE IN ACCORD WITH SECY-86-369 IN SUPPORT OF SEVERE ACCIDENT POLICY STATEMENT IMPLEMENTATION AND THE SEVERE ACCIDENT PLAN. IN ACCORDANCE WITH A MEMO FOR T. SPEIS FROM R. HOUSTON ON 11/4/87, THIS ISSUE WAS DETERMINED TO BE WITHIN THE REALM OF SEVERE ACCIDENT RESEARCH. THEREFORE, IT WILL CONTINUE TO BE TRACKED AS A LICENSING ISSUE TO FOLLOW THE RESEARCH WORK.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.B.5(1)

TITLE: BEHAVIOR OF SEVERELY DAMAGED FUEL

AFFECTED DOCUMENTS

- (1) NUREG-0956 REASSESSMENT OF TECHNICAL BASES FOR LWR ACCIDENT SOURCE TERM (JULY 1986).
- (2) NUREG-1150 NEW RISK PROFILES FOR FIVE REFERENCE PLANTS (DRAFT FOR COMMENT FEBRUARY 1987).
- (3) SECY-86-369, "PLAN TO ADDRESS SOURCE TERM TECHNICAL UNCERTAINTY AREAS."

PROBLEM/RESOLUTION

NONE

M I L E S T O N E S

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
INITIAL DRAFT CONTRACTOR SOURCE TERM REPORT	01/83	--	01/83
SOURCE TERM ESTIMATES FOR SELECTED PLANTS AND ACCIDENT SEQUENCES	08/83	--	01/84
THOROUGH PEER REVIEW OF THE ABOVE SCIENTIFIC BASES FOR REASSESSMENT	12/84	--	02/85
DRAFT REASSESSMENT OF THE TECHNICAL BASES FOR ESTIMATING SOURCE TERMS (NUREG-0956)	12/83	--	07/85
NRC SEVERE ACCIDENT POLICY COMPLETE DTR	11/85	--	07/85
SEVERE ACCIDENT RISK REBASELINING PROGRAM DRAFT REPORT (NUREG-1150)	12/86	--	12/86
SEVERE ACCIDENT RISK REBASELINING PROGRAM DRAFT REPORT (NUREG-1150)	12/83	--	03/87
FINAL REASSESSMENT OF THE TECHNICAL BASES FOR ESTIMATING SOURCE TERMS (NUREG-0956)	07/86	--	07/86
FINAL RECS TO THE COMMISSION ON SEVERE ACCIDENT CONT. PERFORMANCE RQMNTS FOR (MARKI) OPERATING PLANTS & PLANTS UNDER CONSTRUCTION	08/88	10/89	--
SEVERE ACCIDENT RISK REBASELINING PROGRAM - FINAL REPORT (NUREG 1150)	09/88	10/89	--

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 117

ISSUE NUMBER: II.B.5(1)

TITLE: BEHAVIOR OF SEVERELY DAMAGED FUEL

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
----- ISSUE CLOSEOUT MEMO TO EDO	06/88	06/94	--

AS OF FY89 QUARTER 4

RUN DATE: 11/03/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 119

ISSUE NUMBER: II.B.5(3) TITLE: EFFECT OF HYDROGEN COMBUSTION ON CONTAINMENT STRUCTURES
 IDENTIFICATION DATE: 05/80C PRIORITIZATION DATE: 11/83C TYPE: LI PRIORITY:
 TASK MANAGER: P. WORTHINGTON OFFICE/DIVISION/BRANCH: RES /DSR /AEB ACTION LEVEL: ACTIVE STATUS: 5
 TAC NUMBERS: RESOLUTION DATE: 11/91
 WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN	CONTRACTOR	CONTRACT TITLE
A1246	SNL	HYDROGEN BEHAVIOR PROGRAM
A1270	SNL	HYDROGEN BURN SURVIVAL
A1336	SNL	HYDROGEN MIXING STUDIES
A7247	LANL	HYDROGEN MITIGATION AND PREVENTIVE SCHEMES
B8208	SNL	HYDROGEN COMBUSTION AND CONTROL DEMO. EXPER.

WORK SCOPE

EXPERIMENTAL AND ANALYTICAL PROGRAM TO PROVIDE THE NRC WITH A DATA BASE TO ASSESS THE THREAT POSED BY HYDROGEN BURNING DURING POSTULATED LWR ACCIDENTS. THIS WORK WILL PROVIDE AN IMPROVED UNDERSTANDING IN THE AREAS OF DEFLAGRATIONS, GLOBAL AND LOCAL DETONATIONS, FLAME ACCELERATION AND TRANSITION FROM DEFLAGRATION TO DETONATION (DDT), THE EFFECT OF BURNING ON EQUIPMENT, AND THE EFFICIENCY OF H2 CONTROL SYSTEMS.

STATUS

PROGRAMS ARE UNDERWAY WITH STATE-OF-THE-ART PAPERS EXPECTED FOR FLAME ACCELERATION AND DDT AND DETONATION IN FY-89. HIGH TEMPERATURE AND HIGH STEAM CONCENTRATION COMBUSTION EXPERIMENTS ARE CURRENTLY UNDER CONSIDERATION. COMBUSTION CODES CONTINUE TO BE ASSESSED AGAINST LARGE-SCALE HDR EXPERIMENTAL DATA. THIS PROGRAM WILL CONTINUE IN ACCORD WITH REVISED SEVERE ACCIDENT RESEARCH PROGRAM PLAN SECY-89-123 IN SUPPORT OF INTEGRATION PLAN FOR CLOSURE OF SEVERE ACCIDENT ISSUES SECY-88-147. IN ACCORDANCE WITH A MEMO FOR T. SPEIS FROM R. HOUSTON ON 11/4/87, THIS ISSUE WAS DETERMINED TO BE WITHIN THE REALM OF SEVERE ACCIDENT RESEARCH. THEREFORE, IT WILL CONTINUE TO BE TRACKED AS A LICENSING ISSUE TO FOLLOW THE RESEARCH WORK.

AFFECTED DOCUMENTS

SEVERE ACCIDENT RESEARCH PLAN (NUREG-0900, REV. 1, 4/86)

PROBLEM/RESOLUTION

NONE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.B.5(3)

TITLE: EFFECT OF HYDROGEN COMBUSTION ON CONTAINMENT STRUCTURES

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
REVIEW OF GRAND GULF PLANT HYDROGEN IGNITOR SYSTEM	10/83	--	03/83
ANALYSIS OF SEQUOYAH PLANT	09/83	--	02/84
ANALYSIS OF HYDROGEN AND STEAM RELEASES TO CONTAINMENT DURING DEGRADED CORE COOLING ACCIDENTS	02/82	--	02/84
HYDROGEN BURN EQUIPMENT SURVIVAL REPORT FOR ICE CONDENSER	09/83	--	11/84
HYDROGEN COMBUSTION EXPERIMENTS IN FITS FACILITY	12/86	--	12/86
REPORT ON POSSIBILITY OF LOCAL DETON.	01/84	--	01/87
UNCERTAINTY PAPER ON H2 COMBUSTION	05/87	--	05/87
MARCH-HECTR ANALYSIS OF SELECTED ACCIDENT IN AN ICE-CONDENSER CONTAINMENT	12/84	--	02/85
HECTR VERSION 1.0	02/85	--	02/85
HECTR VERSION 1.5	04/86	--	04/86
HYDROGEN-STEAM JET FLAME FACILITY AND EXPERIMENTS	02/85	--	02/85
REPORT ON DETONATION EXPERIMENTS SERIES I	09/87	--	06/87
NTS DATA ANALYSIS DIFFUSION FLAMES	08/87	--	08/87
NTS DATA ANALYSIS FOR CONTINUOUS INJECTION TESTS	05/85	--	11/87
HECTR/MAAP COMPARISON	08/88	--	08/88
NTS H2 DEMONSTRATION TEST REPORT	03/84	--	10/88

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.B.5(3) TITLE: EFFECT OF HYDROGEN COMBUSTION ON CONTAINMENT STRUCTURES

M I L E S T O N E S

	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
NTS DATA ANALYSIS FOR PREMIXED TESTS	05/85	--	11/88
EFFECT OF H2 BURNS IN AEROSOLS SCOPING STUDY REPORT	10/83	10/89	--
EFFECT OF SPRAYS ON IGNITORS REPORT	09/83	10/89	--
EFFECTIVENESS OF NONPOWERED IGNITORS	09/86	10/89	--
LARGE SCALE FLAME ACCELERATION TESTS REPORT	05/84	10/89	--
REPORT ON DETONATION EXPERIMENTS SERIES II	05/87	10/89	--
HECTR VERSION 2.0	09/87	02/90	--
CLOSE OUT ISSUE	11/91	11/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.H.2 TITLE: OBTAIN DATA ON CONDITIONS INSIDE TMI-2 CONTAINMENT
 IDENTIFICATION DATE: 05/80C PRIORITIZATION DATE: 11/83C TYPE: GSI PRIORITY: H
 TASK MANAGER: R. VAN HOUTEN OFFICE/DIVISION/BRANCH: RES /DSR /AEB ACTION LEVEL: ACTIVE STATUS:
 TAC NUMBERS: RESOLUTION DATE: 12/91
 WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN	CONTRACTOR	CONTRACT TITLE
A6899 D2072	EG&G MPR	TMI-2 LOWER HEAD COMPANION SAMPLE EXAM & ANALYSIS TMI-2 BOTTOM HEAD SAMPLING

W O R K S C O P E

NRC HAS COOPERATED WITH DOE AND INDUSTRY ON RESEARCH AND DATA-GATHERING PROGRAMS WITHIN THE TMI-2 CONTAINMENT. THESE PROGRAMS CONCENTRATE ON RETRIEVING DATA WHICH CHARACTERIZE THE PROGRESSION OF THE ACCIDENT AND THE RESULTING RADIOLOGICAL SOURCE TERM. THE PROGRAMS ADDRESS THE EXAMINATION OF THE REACTOR INTERNALS (ESPECIALLY THE REACTOR CORE AND FUEL), THE PRIMARY SYSTEM PIPING AND

VESSEL, THE DOSE REDUCTION EFFORT DURING DECONTAMINATION, AND VARIOUS MECHANICAL, ELECTRICAL, AND INSTRUMENTATION EQUIPMENT. PRIOR TO CY88, NRC PRIMARILY PROVIDED TECHNICAL EXPERTISE AND HOT-CELL EXAMINATION OF CORE MATERIALS. THE PROGRAMS WERE GENERALLY CARRIED OUT WITH FUNDS FROM DOE AND OTHERS. EARLY IN CY88, NRC INITIATED ITS OWN COOPERATIVE PROGRAM TO EXAMINE THE DAMAGED BOTTOM HEAD.

S T A T U S

PRIOR EFFORTS CONCENTRATED ON TMI-2 CORE EXAMINATION BOTH ON-SITE AND OFF-SITE. A PLANNING BASIS FOR WORK SUPPORTED BY NRC AND SEPARATELY BY DOE INCLUDED A PRIORITY ANALYSIS. DEPENDING UPON AVAILABILITY OF SAMPLES FROM DOE, NRC IS CONDUCTING A SERIES OF OFF-SITE EXAMINATIONS OF SELECTED CORE MATERIALS AT A NATIONAL LABORATORY.

RECENT CORE EXAMINATIONS INDICATE A LARGE FLOW OF MOLTEN MATERIAL (MORE THAN 15 TONS) INTO THE LOWER PLENUM

AFTER THE ACCIDENT HAD BEEN IN PROGRESS FOR ABOUT 225 MINUTES, DOE HAD NOT BUDGETED FOR THE ADDITIONAL RESEARCH TO EXAMINE THE EFFECTS OF THIS MOLTEN MATERIAL ON THE VESSEL BOTTOM AND VESSEL COMPONENTS. THE CHAIRMAN INDICATED THAT HE BELIEVED THIS EXAMINATION TO BE VERY IMPORTANT. NRC ASKED DOE TO PERFORM THE EXAMINATION BUT DOE DECLINED.

NRC INITIATED A COOPERATIVE PROGRAM JANUARY 15, 1988. EPRI AND TEN OECD-NEA COUNTRIES PARTICIPATE.

AFFECTED DOCUMENTS

NONE

PROBLEM/RESOLUTION

BOTTOM HEAD SAMPLING TOOLS AND PROCEDURES MUST BE DEVELOPED AND DEMONSTRATED PRIOR TO THE 10/15/89-12/1/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.H.2

TITLE: OBTAIN DATA ON CONDITIONS INSIDE TMI-2 CONTAINMENT

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

SAMPLING WINDOW.

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
REVISED CORE EXAMINATION PLAN (DOE RESPONSIBILITY)	04/83	--	10/84
HEAD REMOVAL	07/83	--	07/84
PLENUM REMOVAL	07/85	--	05/85
BEGIN DEFUELING	10/85	--	12/85
REVISE CORE EXAMINATION PLAN	12/85	--	02/86
CORE DRILLING	07/86	--	03/87
COMPLETE DEFUELING	06/87	10/89	--
FINAL FUEL ANALYSIS REPORT	09/87	03/90	--
ISSUE CLOSEOUT MEMO TO EDO	12/87	06/90	--
LOWER LEAF SAMPLE REMOVAL	12/88	12/89	--
SAMPLE EVALUATION AND REPORT	06/90	06/91	--
SUMMARY ANALYSIS	12/90	12/91	--

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.J.4.1

TITLE: REVISE DEFICIENCY REPORTING REQUIREMENTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
CRGR REVIEW COMPLETE	05/83	--	07/85
PROPOSED AMENDMENTS TO COMMISSION	05/83	--	12/85
COMMISSION DISAPPROVAL RETURNED VIA STAFF REQUIREMENTS MEMO DATED 10/20/86	10/86	--	10/86
REWRITE TO MEET COMMISSION DIRECTIVE	04/87	--	04/87
FIRST ROUND OFFICE AND REGIONAL CONCURRENCE REQUEST ISSUED	04/87	--	04/87
FIRST ROUND OFFICE AND REGION REVIEW COMPLETE	05/87	--	05/87
PERMITS TO INCLUDE COMMENTS	06/87	--	06/87
SECOND ROUND OFFICE AND REGIONAL CONCURRENCE REQUEST ISSUED	06/87	--	06/87
SECOND ROUND INTER-OFFICE DISCUSSIONS TO RESOLVE ISSUES	09/87	--	09/87
CRGR REQUEST ISSUED (29)	09/87	--	09/87
COMPLETE CRGR REVIEW	11/87	--	02/88
ISSUE REVIEW REQUEST TO EDO	11/87	--	02/88
RECEIVE EDO CONCURRENCE TO FORWARD TO COMMISSION	12/87	--	03/88
FORWARD TO COMMISSION	12/87	--	03/88
PUBLISH FOR PUBLIC COMMENT	01/88	--	11/88
PUBLIC COMMENT PERIOD ENDS	03/88	--	01/89
RESOLUTION OF PUBLIC COMMENTS COMPLETE	06/88	--	07/89

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: II.J.4.1 TITLE: REVISE DEFICIENCY REPORTING REQUIREMENTS

M I L E S T O N E S	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
COMPLETE OFFICE REVIEW AND CONCURRENCE	06/89	--	07/89
CRGR REVIEW	08/89	--	07/89
ACRS REVIEW	08/89	--	07/89
PACKAGE TO ED0	08/89	--	07/89
PACKAGE TO COMMISSION	08/89	--	08/89
ISSUE RULE	--	--	--