

### UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20556-0001

MAY 0 9 1994

MEMORANDUM FOR:

James M. Taylor

Executive Director for Operations

FROM:

Eric S. Beckjord, Director

Office of Nuclear Regulatory Research

SUBJECT:

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM -

SECOND QUARTER FY-94 UPDATE

Enclosed is the Second Quarter FY-94 update of the Generic Issue Management Control System (GIMCS) for your information. This report reflects the following major activities that occurred during the reporting period.

(1) Two generic safety issues (GSIs) were resolved:

II.H.2

(HIGH)

Obtain Technical Data on the Conditions Inside the TMI-2

Containment Structure

57

(MEDIUM)

Effects of Fire Protection System

Actuation on Safety-Related

Equipment

(2) One GSI was prioritized:

158

(HIGH)

Performance of Safety-Related Power-

Operated Valves Under Design Basis

Conditions

There are four issues that remain to be prioritized and fifteen GSIs to be resolved including three that are scheduled for resolution in the Third Quarter of FY-94. I will continue to keep you informed of progress in resolving these issues as well as any major problems that might surface during the course of their resolution.

Eric S Beckjord, Director
Office of Nuclear Regulatory Research

Enclosure: GIMCS Second Quarter FY-94 Update

#### ENCLOSURE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM SECOND QUARTER FY-94 UPDATE

OFFICE OF NUCLEAR REGULATORY RESEARCH
APRIL 1994

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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 and a memorandum summarizing the resolution is issued to the EDO. For safety-related issues, this generally occurs when the resolution has been incorporated into one or more of the following documents:

(a) Commission Order(b) NRC Policy Statement

(c) Rule

(d) Standard Review Plan (SRP)

(e) Regulatory Guide (f) Generic Letter

(g) Bulletin

(h) Information Notice

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, management review and approval, public comments, and incorporation into the regulations, as appropriate). The priority evaluation for each issue listed in this report is contained in NUREG-0933, "A Prioritization of Generic Safety Issues." 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 issues is provided in RES Office Letter No. 3.

GIMCS provides the proposed schedules for managing and controlling the resolution of: (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

ANPRM	100	Advance Notice of Proposed Rulemaking
BNL	-	Brookhaven National Laboratory
BTP		Branch Technical Position
DTR	-	Draft Technical Resolution
EPRI	-	Electric Power Research Institute
FIN	-	Financial Identification Number
FRN	-	Federal Register Notice
FTR		Final Technical Resolution
GL		Generic letter
GSI		Generic Safety Issue
Н		HIGH-priority GSI
IEB		Inspection & Enforcement Bulletin
IN	_	Information Notice
INEL		Idaho Nuclear Engineering Laboratory
LI		Licensing Issue
M		MEDIUM-priority GSI
NR.		NEARLY-RESOLVED GS1
	-	Oak Ridge National Laboratory
ORNL		Pacific Northwest Laboratories
PNL		Probabilistic Risk Assessment
PRA		
RAI		Request for Additional Information
RG	-	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	100	Unresolved Safety Issue

#### DATA ELEMENTS

and control indicators used in GIMCS are defined as follows:

Manag	gement and control indica	tor	s used in GIMCS	are defined as follows:
1.	Issue No.	-	Generic Issue	Number
2.	<u>Title</u>	.00	Generic Issue	Title
3.	Identification Date		Date the issue	was identified
4.	Prioritization Date	-	The date that was approved b	the prioritization evaluation y the RES Director
5	Type	***	Generic Safety Regulatory Imp	(GSI), Licensing (LI), or act (RI)
6.	Priority	_	High (H) or Me	dium (M)
7.	Task Manager	-	Name of assign for resolution	ed individual responsible
8.	Office/Division/Branch	1	The Office, Di Manager who ha resolving the	vision, and Branch of the Task is lead responsibility for 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 expended
10.	Status		Coded summary NR - (Nearly-	

3A - (Resolved with requirements);
3B - (Resolved with No requirements);
5 - (Licensing or Regulatory Impact issue that has been assigned resources for completion)

- Task Action Control (TAC) number assigned 11. TAC Number 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 issue)
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:  (a) the "original" scheduled dates reflect the original Task Action Plan plus additional milestone dates added during task resolution;  (b) changes in the original scheduled dates are listed under "Current";  (c) actual completion dates are listed under "Actual"

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION,
ISSUES RESOLVED AND ISSUES INTEGRATED
FY-33 THROUGH FY-94 (2ND QUARTER)

		FY-83				FY-84				F	Y-85	
TYPE	GIS Start +	New	GIs - Resolve	d = End	GIs Start +	New Issues	GIs - Resolved	= End	GIs Start	+ Issue	GIs s - Resolve	d = End
USI HIGH	16 24	0 2	2 0	14 26	14 26	0	2	12 26 34	12 22* 28*	0 41	0 6 10	12 57 19
MEDIUM NR	31 20	3	4	33 19	33 19	5	9	15	15	11	7	19
TOTAL:	91	7	6	92	92	10	15	87	77	53	23	107
		FY-86	AL SE					FY-87				
ISSUE TYPE	GIs Start +	New Issues	GIs - Resolved =	• End	ISSUE TYPE	GIs Start +	New Issues -	GIs Resol		GIs Integrated	= End	
USI	12	0	1	11 38	USI	11 38	0	2		0 7	9 32	
HIGH MEDIUM NR	57 19 19	(16)* 7 (3)*	2 3	24 13	MEDIUM NR	24 13	1 0	4		5	16 11	
TOTAL:	107	(12)*	9	86	TOTAL:	86	5	10		13	68	

<sup>\*</sup>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 FY-94(2ND QUARTER)

				FY-88							FY-89		
ISSUE TYPE	GIs Start	+	New Issues	GIS	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		ī	3	0	9	NR	9		0	2	0	7
TOTAL:	68		4	16	6	50	TOTAL:	50		2	18	1	33
				FY-90							FY-91		
ISSUE TYPE	GIs Start	+	New Issues	GIS	GIs - Integrated	= End	ISSUE TYPE	GIs Start	+	New Issues	GIs - Resolved	GIS - Integrated	= End
HIGH	16		0	2	0	14	HIGH	14		2	2	, 0	14
MEDIUM	10		1	2	0	9	MEDIUM	9		3	1	0	11
NR	7		Ô	3	0	4	NR	4		1	1	0	4
TOTAL:	33		1	7	0	27	TOTAL:	27		6	4	0	29
			FY.	-92							FY-93		
ISSUE TYPE	GIs Start	+	New	GIS	GIs Integrated =	End	ISSUE TYPE	GIs Start	+	New Issues	GIs - Resolved	GIs - Integrated	= End
			0	4	0	10	HIGH	10		0	7	0	3
HIGH	14		0	2	0	10	MEDIUM	10		0	3	0	7
MEDIUM NR	11		2	1	0	5	NR	5		2	0	0	7
TOTAL:	29		3	7	0	25	TOTAL:	25		2	10	0	1.7

# TABLE 1 (Continued) GENERIC SAFET: ISSUES SCHEDULED FOR RESOLUTION, ISSUES RESOLVED AND ISSUES INTEGRATED FY-83 THROUGH FY-94(2ND QUARTER)

FY-94

ISSUE TYPE	GIs Start +	New Issues -	GIs Resolved -	GIs Integrated =	End
HIGH	3	1	1	0	3
MEDIUM	7	1	2	0	6
NR	7	0	1	0	6
TOTAL:	17	2	4	0	15

# SUMMARY OF GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION, ISSUES RESOLVED, AND ISSUES INTEGRATED CUMULATIVE TOTALS FY-83 THROUGH FY-94(2ND QUARTER)

	ISSUE TYPE	GIS Start +	New Issues =	Sub-Total	GIs - Resolved -	GIs Integrated ==	= Remainder
_	USI	16	0	16	16	0	0
	HIGH	28	33*	57	44	10	3
	MEDIUM	21	18	49	34	9	6
	NR NR	20	22*	42	35	1	6
-	TOTAL:	91	73	164	129	20	15

<sup>\*</sup> Extensive revisions to Human Factors issues resulted in priority changes in FY-85 and FY-86.

**	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.

# NUMBER OF GENERIC SAFETY ISSUES RESOLVED AND SCHEDULED FOR RESOLUTION FY-83 THROUGH FY-94(2ND QUARTER)

#### RESOLVED

ISSUE PRIORITY	FY-83	FY-84	FY-85	FY-86	FY-87	FY-88	FY-89	FY-90	FY-91	FY-92	FY-93	FY-94	TOTAL
USI	2	2		1	2	5	4	0	0	0	0	0	16
HIGH	0	1	6	3	3	6	9	2	2	4	7	1	44
MEDIUM	0	3	10	2	4	2	3	2	1	2	3	2	34
NR	4	9	7	3	1	3	2	3	1	1	0	1	35
Total:	6	15	23	9	10	16	18	7	4	7	10	4	129

### SCHEDULED FOR RESOLUTION

ISSUE PRIORITY	FY-94	FY-95	FY-96	FY-97	TBD	TOTAL
HIGH	0	1	1	0	1	3
MEDIUM	1	3	0	1	1	6
NR	4	0	0	0	2	6
Total:	5	4	1	1	A	15

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-83					
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	uc/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
FY-84					
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, 33	12/^7/83
45	Inoperability of Instruments Due to Extreme Cold Weather	NR	SRP Revision	09/08/83	03/23/84

As of 2nd Quarter FY-94

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-84 (Cont.)					
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
8-60	Loose Parts Monitoring Systems (LPMS)	NR	GL	NRR-OP FY83	09/25/84
1.A.1.4	Long-Term Ungrading 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	09/28/8
111.D.2.5	Offsite Dose Caiculation Manual	NR	NUREG/ CR-3332	NRR-OP FY83	01/17/8

# GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-85					
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/Q9/85
1.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	10/05/8

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-85 (Cont.)					
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	High		-	-	
	Degraded Core Accidents (a) Hydrogen Rule (b) Severe Accidents		Rule/ Policy Statement	NRR-OP FY83 NRR-OP FY83	07/19/85 08/12/85
11.C.1	Interim Reliability Evaluation Program	High	No Req.	NRR-OP FY83	07/09/85
11.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 Dis- criminate Between Sites/Plants	NR	ESRP Revision	NRR-OP FY83	08/28/85
III.D.2.3(2)	Discriminate Between Sites and Plants that Require Cons'deration of Liquid Pathway Interdiction Techniques	NR	ESRP Revision	NRR-OP FY83	08/28/85
111.0.2.3(3)	Establish Feasible Method of Pathway Interdiction	NR	ESRP Revision	NRR-OP FY83	08/28/85

As of 2nd Quarter FY-94

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-85 (Cont.)					
III.D.2.3(4)	Prepare a Summary Assessment	NR	ESRP	NRR-OP FY83	08/28/85
IV.E.5	Assess Currently Operating	High	Revision No Req.	NRR-OP FY83	09/25/85
<u>FY-86</u>	Plants				
3	Setpoint Drift in Instrumentation	NR	Reg Guide Rev. (No Req.)	NRR-OP FYS3	05/19/86
14	PWR Pipe Cracks	NR	No Req.	NER-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 (Req.)	01/79	10/85
1.0.9	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

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-87					
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
1.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
1.8.1.1	Organization and Management Long-Term Improvements			-	
I.B.1.1(1)	Prepare Draft Criteria	Medium	No Req.	12/82	01/87
I.B.1.1(2)	Prepare Commission Paper	Mediu	No Req.	12/82	01/87
1.B.1.1(3)	Issue Requirements for the Upgrading of Management and Technical Resources	Medium	No Req.	12/82	01/87
1.8.1.1(4)	Review Responses to Determine Acceptability	"^dium	No Req.	12/82	01/87

## GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-88					
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
1.0.4	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
8-5	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
43	Reliability of Air Systems	High	GL 88-14 (Req.)	12/87	09/88

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-C8 (Cont.)					
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
125.11.7	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	05/06/85	00/89
			(Req.)		

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-89 (Cont.)					
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	94/89
124	Auxiliary Feedwater System Reliability	NR	2 Plant- Specific Backfits (Req.)	02/86	01/89
125.1.3	SPDS Availability	NR	GL 89-06 (No. 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

# GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-89 (Cont.)					
HF4.1	Inspection Procedure for Upgraded Emergency Operating Procedures	High	IN 86-64 (No Req.)	10/01/84	10/88
L.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
FY-90					
70	PORV and Block Valve Reliability	Medium	GL 90-06	05/14/84	06/90
75	Generic Implications of ATWS Events at the Salem Nuclear Power Plant	NR	Req.	10/19/83	05/90
84	CE PORVs	NR	SECY-90-232 (No Req.)	02/27/85	06/90
94	Additional Low-Temperature Overpressure Protection for LWRs	High	GL 90-06 (Req.)	07/23/85	06/90
103	Design for Probable Maximum Precipitation	NR	GL 89-22 (Req.)	09/04/85	11/89

TABLE 3 (Continued)
GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-90 (Cont.	1				
A-29	Nuclear Power Plant Design for the Reduction of Vulnerability to Industrial Sabotage	Medium	No Req.	NRR-OP FY83	10/89
C-8	Main Steam Line Isolation Valve Leakage Control Systems	High	No Req.	NRR-OP FY83	03/90
FY-91					
128	Electrical Power Reliability	High	GL 91-06, GL 91-11 (Req.)	11/28/86	09/91
130	Essential Service Water System Failures at Multiplant Sites	High	GL 91-13 (Req.)	03/10/87	09/91
135	Steam Generator and Steam Line Overfill	Medium	No Req.	05/27/86	03/91
11.J.4.1	Revise Deficiency Report Requirements	NR	Rule (Req.)	NRR-OP FY83	07/91
<u>FY-92</u>					
29	Bolting Degradation or Failure in Nuclear Power Plants	High	No Req.	NRP-OP FY-83	10/91

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-92 (Cont.)					
73	Detached Thermal Sleeves	NR	NUREG/ CR-6010 No. Req.	08/20/91	09/92
79	Unanalyzed Reactor Vessel Thermal Stress During Natural Convection Cooldown	Medium	GL 92-02 No. Req.	NRR-OP FY-84	05/92
87	Failure of HPCI Steam Line Without Isolation	High	No Req.	09/26/85	12/91
113	Dynamic Qualification Testing of Large Bore Hydraulic Snubbers	High	No Req.	07/02/87	08/92
121	Hydrogen Control for Large, Dry PWR Containments	High	No Req.	09/26/85	03/92
151	Reliability of ATWS Recirculation Pump Trip in BWRs	Medium	No Req.	08/27/91	09/92
<u>FY-93</u>					
105	Interfacing Systems LOCA at LWRs	High	No Req.	06/11/85	06/93
120	On-Line Testability of Protection Systems	Medium	No Req.	11/23/90	03/93
142	Leakage Through Electrical Isolators	Medium	No Req.	06/20/90	03/93

TABLE 3 (Continued)
GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-93 Cont.)					
143	Availability of Chilled Water Systems and Room Cooling	High	No Req.	03/29/91	09/93
153	Loss of Essential Service Water in LWRs	High	No Req.	03/29/91	06/93
B-56	Diesel Reliability	High	Reg Guides: 1.9, Rev. 3; 1.160 (Req.)	NRR-OP FY83	06/93
HF4.4	Guidelines for Upgrading Other Procedures	High	No Req.	10/01/84	07/93
HF5.1	Local Control Stations	High	No Req.	10/01/84	06/93
HF5.2	Review Criteria for Human Factors Aspects of Advanced Controls and Instrumentation	High	No Req.	10/01/84	06/93
1.D.3	Safety System Status Monitoring	Medium	No Req.	NRR-OP FY83	09/93
FY-94					
57	Effects of Fire Protection System Actuation on Safety- Related Equipment	Medium	No Req. (NUREG- 1472)	06/08/88	02/94
106	Piping and Use of Highly Combustible Gases in Vital Areas	Medium	No Req.	11/03/87	11/93
1.D.5(3)	On-Line Reactor Surveillance Systems	NR	No Req.	NRR-OP FY83	11/93

# GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Tition	Priority	Resolution Product	Date Approved for Resolution	Date Resolved
FY-94 (Cont.)					
II.H.2	Obtain Technical Data on the Conditions Inside the TMI-2 Containment Structure	High	No Req.	NRR-OP FY83	02/94

TABLE 4

15 GSIs SCHEDULED FOR RESOLUTION (BY FISCAL YEAR)

PRIORITY	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99	TBD	TOTAL
HIGH	•	23	15		-	-	165	3
MEDIUM	78	24 8-17 8-61	- Mary	B-55			158	6
IR	83 145 155.1 8-64					-	166 168	6
TOTAL:	5	4	1	1	0	0	4	15

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-93	Current Resolution Date
15	Radiation Effects on Reactor Vessel Supports	RES/DSIR/EIB	Н	02/89	03/96	03/96
23	Reactor Coolant Pump Seal Failures	RES/DSIR/EIB	Н	NRR-OP FY83	12/94	06/95
165	Spring-Actuated Safety and Relief Valve Reliability	RES/DSIR/EIB	Н	11/26/93	NA	TBD
24	Automatic Emergency Core Cooling System Switch to Recirculation	RES/DSIR/SAIB	М	07/23/91	08/94	01/95
78	Monitoring of Fatigue Transient Limits for Reactor Coolant System	RES/DSIR/EIB	М	07/10/92	TBD	06/94
158	Performance of Safety-Related Power-Operated Valves Under Design Basis Conditions	RES/DSIR/SAIB	М	01/26/94	NA	TBD
B-17	Criteria for Safety-Related Operator Actions	RES/DSR/HFB	М	03/22/82	09/94	06/95
8-55	Improve Reliability of Target Rock Safety Relief Valves	RES/DSIR/EIB	М	NRR-OP FY83	TBD	08/97
B-61	Allowable ECCS Equipment Outage Periods	RES/DSR/PRAB	М	NRR-OP	12/94	06/95
83	Control Room Habitability	RES/DSIR/SAIB	NR	08/83	12/93	08/94

GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/Branch	Priority	Date Approved for Resolution	Resolution Date at end of FY-93	Current Resolution Date
145	Improve Surveillance and Startup Testing Programs	RES/DSIR/PRAB	NR	02/11/92	01/94	05/94
155.1	More Realistic Source Term Assumptions	RES/DSIR/SAIB	NR	02/26/92	01/94	07/94
166	Adequacy of Fatigue Life of Metal Components	NRR/DE/EMEB	NR	04/01/93	TBD	TBD
168	Environmental Qualification of Electrical Equipment	NRR/DSSA/SPLB	NR	04/01/93	TBD	TBD
8-64	Decommissioning of Nuclear Reactors	NMSS/LLWM/LLRB	NR	NRR-OP FY84	10/93 ,	06/94

Total: 15

NUMBER OF GENERIC ISSUES PRIORITIZED FROM FY-83 THROUGH THE 2ND QUARTER OF FY-94

ISSUE TYPE	FY-83	<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>	FY-93	FY-94	Tota
Issues Identified	56	19	54	45*	6	3	38	3	29	7	5	1	266
To Be Prioritized Issues Identified To Be Reprioritized	19	2	0	1	1	2	0	0	0	0	0	0	25
Total:	75	21	54	46	7	5	38	3	29	7	5	1	291
New Issues (Entered	i												
into GIMCS)			44			1		0	2	. (	0 0	1	59
High	2 2 3	1	41	6	4	2	0		3	1		1	18
Medium	2	4	1	1	0	- 2	0				2 0 2	0	21
Nearly-Resolved	3	5	6		U	1	U						
Subtotal:	7	10	48	8	5	4	1	1	6	, 4	, 2	2	98
Resolved		0	1	0	0	1	1	1	. 0	) :	2 1	0	11
Fom	1	4	Ô	2	1	0	0	. 2			4 3	0	17
Drop	1	4	4	6	13	9	2					0	82
RI/LI	Ô	0	4	6	0	2	33	1	]		3 0	0	50
Integrated	8	2	3	6	0	1	1	3	3 0	) !	5 0	0	29
Total Issues Prioritized:	21	20	60	28	19	17	38	3 16	5 12	4:	2 12	2	287
Remaining Issues To Be Prioritized or Reprioritized:	+54	+1	-6	+18	-12	-12	C	-13	3 +17	7 -3!	5 -7	- peed	4
	-					-			-				

<sup>\*</sup> Extensive Revisions to Human Factors Issues Resulted in Priority Changes.

GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-83				
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	09/82	07/82	\$(25)
40	System Safety Concerns Associated with Pipe Breaks in the BWR Scram System	09/82	07/83	NR
	BWR Scram Discharge Volume Systems	09/82	07/83	RESOLVED
41	Combination Primary/Secondary System LOCA	09/82	04/83	S(18)
42	Inoperability of Instrumentation Due to Extreme	09/82	09/83	NR
45	Cold Weather		02/83	S(76)
46	Loss of 125 Volt DC Bus	09/82		RESOLVED
47	Loss of Off-Site Power	09/82	04/83	NR NR
50	Reactor Vessel Level Instrumentation in BWRs	09/82	07/83	MEDIUM
51	Proposed Requirements for Improving the Reliability of Open Cycle Service Water Systems	09/82	06/83	
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-45/1.D.1
20	Inadvertent Containment Flooding	09/82	08/83	DRO
58 64	Identification of Protection System Instrument Sensing Lines	10/82	02/83	RESOLVED
65	Probability of Core-Melt Due to Component Cooling Water System Failures	02/83	07/83	HIGH
77	Flooding of Safety Equipment Compartments by	06/83	09/83	HIGH
79	Back-Flow Through Floor Drains Unanalyzed Reactor Vessel Thermal Stress During	06/83	07/83	MEDIUM
	Natural Convection Cooldown	09/82	06/83	LOW
D-1 1V.E.2	Advisability of a Seismic Scram Plan for Early Resolution of Safety Issues	09/82	06/83	RESOLVED

## TABLE 6 (Continued) GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
Y-84				
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
13	Contamination of Instrument Air Lines	09/82	11/83	DROP
14	Failure of Saltwater Cooling System	09/82	10/83	S(43)
18	LCO for Class IE Vital Instrument Buses in	09/82	10/83	NR
	Operating Reactors			
49	Interlocks and LCOs for Redundant Class IE Tie Breakers	09/82	07/84	MEDIUM
53	Consequences of a Postulated Flow Blockage Incident in a BWR	09/82	09/84	DROP
50	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	06/83	04/84	HIGH
	Resulting from Turbine-Driven Auxiliary Feedwater Pump Steam Supply Line Rupture			
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 Plant	06/83	10/83	NR
80	Pipe Break Effects on Control Rod Drive Hydrau- lic Lines in the Drywells of BWR Mark I and II	06/83	01/84	LOW
	Containments	NEED LEAD TO THE REAL PROPERTY OF THE PERTY		MEDIUM
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 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current
FY-85				
37	Steam Generator Overfill and Combined Primary and Secondary Blowdown	09/82	05/85	S(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 Class 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)
102	Design For Probable Maximum Precipitation	10/84	09/85	NR
103	Interfacing Systems LOCA at LWRs	10/84	06/85	HIGH
105	BWR Suppression Pool Temperature Limits	12/84	02/85	RI(LOW)
108	Piping Review Committee Recommendations	07/85	09/85	RI(NR)
119 121	Hydrogen Control For Large Dry PWR Containments	08/85	09/85	HIGH

## GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

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

GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-86 (Cont.	1			
125.I.2.a	PORV Reliability - Test Program	11/85	06/86	\$(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
125.1.2.d	Equipment Qualification for Feed-and-Bleed Environment	11/85	06/86	S(A-45)
125.11.3	Review Steam/Feed Line Break Mitigation Systems for Single Failure	11/85	08/86	DROP
125.11.4	OTSG Dryout and Reflood Effects	11/85	09/86	DROP
125.11.7	Reevaluate Provisions to Automatically Isolate Feedwater from Steam Generator During Line Break	11/85	09/86	HIGH
125.11.9	Enhance Feed-and-Bleed Capability	11/85	08/86	S(A-45)
125.11.14	Remote Operation of Equipment Which Must Now be Operated Locally	11/85	08/86	LÒW
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)
FY-87				
113	Dynamic Qualification Testing of Large Bore Hydraulic Snubbers	03/85	07/87	HIGH
105 1 1	Availability of the STA	11/85	07/87	DROP
125.I.1	Plant-Specific Simulator	11/85	02/87	DROP
125.1.4	Doalistic Mande-On Training	11/85	03/87	DROP
125.1.7.b 125.1.8	Realistic Hands-On Training Procedures and Staffing for Reporting to NRC Emergency Response Center	11/85	06/87	DROP

# GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-87 (Cont.				
125.II.1.a	Two-Train AFW Reliability	11/85	10/86	DROP
125.11.1.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
125.11.1.d	AFW Steam and Feedwater Rupture Control	11/85	10/86	DROP
16.3.11.1.0	System/ICS Interactions in B&W Plants			
125.11.2	Adequacy of Existing Maintenance Requirements	11/85	06/87	DROP
160.11.6	for Safety-Related Systems			
125.11.5	Thermal-Hydraulic Effects of Loss and	11/85	06/87	DROP
163.11.5	Restoration of Feedwater on Primary System			
	Components			2002
125.11.6	Reexamine PRA Estimates of Core Damage Risk	11/85	03/87	DROP
	from Loss of All Feedwater			5505
125.11.8	Reassess Criteria for Feed-and-Bleed Initiation	11/85	03/87	DROP
125.11.10	Hierarchy of Impromptu Operator Actions	11/85	02/87	DROP
125.11.12	Adequacy of Training Regarding PORV Operation	11/85	03/87	OROP
127	Testing and Maintenance of Manual Valves in	05/86	06/87	LOW
1.67	Safety-Related Systems			
128	Electrical Power Reliability	05/86	11/86	HIGH
130	Essential Service Water Pump Failures at	06/86	03/87	HIGH
100	Multiplant Sites			MEDIUM
135	Steam Generator and Steam Line Overfill	05/86	06/87	MEDIUM
FY-88				
424	Daliability of Air Systoms	04/87	12/87	HIGH
43*	Reliability of Air Systems Failure of Class 1E Safety-Related Switchgear	09/85	02/88	DROP
55*	Circuit Breakers to Close on Demand			
	Effects of Fire Protection System Actuation	09/82	06/88	MEDIUM
57	an Cafety Delated Fournment			
	on Safety-Related Equipment			

<sup>\*</sup> Previous priority evaluation published in NUREG-0933.

GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-88 (Cont.)				
62	Reactor Systems Bolting Applications	10/82	08/88	S(29)
88	Earthquakes and Emergency Planning	01/84	10/87	RESOLVED
04	Reduction of Boron Dilution Requirements	10/84	08/88	DROP
06	Piping and Use of Highly Combustible Gases in Vital Areas	10/84	11/87	MEDIUM
25.1.3	SPDS Availability	11/85	05/88	NR
125.1.6	Valve Torque Limit and Bypass Switch Settings	11/85	12/87	DROP
125.1.7A	Recover Failed Equipment	11/85	12/87	DROP
125.11.11	Recovery of Main Feedwater as Alternative to AFW	11/85	06/88	DROP
125.11.13	Operator Job Aids	11/85	03/88	DROP
126	Reliability of FWR 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
	Storm Surge Model for Coastal Sites	02/83	05/88	LI(DROP)
C-14 III.D.1.1(2)	Review Information on Provisions for Leak	12/82	09/88	DROP
III.D.1.1(3)	Detection Develop Proposed System Acceptance Criteria	12/82	09/88	DROP
FY-89				
154	Radiation Effects on Reactor Vessel Supports	09/88	02/89	HIGH
15* 125.1.5	Safety Systems Tested in All Conditions	11/85	11/88	DROP
131	Required by Design Basis Analysis Potential Seismic Interaction Involving the	07/86	07/89	S(IPE)
	Moveable In-Core Flux Mapping System Used in Westinghouse Plants			
139	Thinning of Carbon Steel Piping in LWRs	12/86	11/88	RESOLVE
	Dam Failure Model	02/83	02/89	LI(DROP)
B-31 D-2	ECCS Capability for Future Plants	06/83	10/88	DROP
	2			

<sup>\*</sup> Previous priority evaluation published in NUREG-0933.

# TABLE 6 (Continued) GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-90				
63	Use of Equipment Not Classified as Essential to Safety in BWR Transient Analysis	10/82	02/90	DROP
71	Failure of Resin Demineralizer Systems and Their Effects on Nuclear Power Plant Safety	06/83	02/90	FOM
81*	Impact of Locked Doors and Barriers on Plant and Personnel Safety	12/86	02/90	DROP
95	Loss of Effective Volume for Containment Recirculation Spray	08/84	02/90	RESOLVED
96	RHR Suction Valve Testing	04/84	02/90	S(105)
107	Generic Implications of Main Transformer Failures	11/84	02/90	LOW
109	Reactor Vessel Closure Failure	12/84	02/90	DROP
116	Accident Management	04/85	09/90	S
117	Allowable Time for Diverse Simultaneous Equipment Outages	05/85	02/90	DROP
129	Valve Interlocks to Prevent Vessel Drainage During Shutdown Cooling	05/86	02/90	DROP
137	Refueling Cavity Seal Failure	10/86	05/90	DROP
140	Fission Product Removal Systems	03/87	02/90	DROP
141	LBLOCA With Consequential SGTR	04/87	05/90	DROP
142	Leakage Through Electrical Isolators	06/87	06/90	MEDIUM
B-29	Effectiveness of Ultimate Heat Sinks	02/83	08/90	LI(RESOLVED)
B-32	Ice Effects on Safety-Related Water Supplies	02/83	08/90	\$(153)
FY-91				
24	Automatic Emergency Core Cooling System Switch to Recirculation	03/83	07/91	MEDIUM
38	Potential Recirculation System Failure as a Consequence of Ingestion of Containment Paint Flakes or Other Fine Debris	09/82	08/91	DROP

# TABLE 6 (Continued) GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

ssue No.	Title	Identification Date	Date Prioritized	Current Priority
Y-91 (Cont.	1 Control of the cont			
12	Control Rod Drive Guide Tube Support Pin	06/83	10/90	DROP
73	Detached Thermal Sleeves	06/83	08/91	NR
00	Once-Through Steam Generator Level	09/84	09/91	DROP
20	On-line Testability of Protection Systems	08/85	11/90	MEDIUM
43	Availability of Chilled Water Systems and Room Cooling	10/87	03/91	HIGH
150	Overpressurization of Containment Penetrations	04/89	08/91	DROP
151	Reliability of Anticipated Transient Without Scram Recirculation Pump Trip in BWRs	04/89	08/91	MEDIUM
153	Loss of Essential Service Water in LWRs	05/90	03/91	HIGH
A-19	Digital Computer Protection System	02/83	11/90	LI
3-22	LWR Fuel	02/83	06/91	DROP
FY-92				
2	Failure of Protective Devices on Essential Equipment	05/83	_ /92	DROP
76	Instrumentation and Control Power Interactions	06/83	04/92	DROP
78	Monitoring of Fatigue Transient its for Reactor Coolant System		07/92	MEDIUM
31*	Impact of Locked Doors and Barriers on Plant and Personnel Safety	0	04/92	LOM
39	Stiff Pipe Clamps	02/84	08/92	MEDIUM
110	Equipment Protection Devices on Engineered Safety Features	12/84	06/92	DROP
118	Tendon Anchorage Failure	07/85	01/92	RESOLVED

<sup>\*</sup>Previous Priority Published in NUREG-0933

# TABLE 6 (Continued) GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-92 (Cont.	1			
123	Deficiencies in the Regulations Governing DBA and Single Failure Criterion Saccested by the Davis- Besse Incident of June 9, 1985	11/85	12/91	DROP
132 138	RHR Pumps Inside Containment Deinerting of BWRs With MARK I and II	07/86 10/86	03/92 10/91	DROP
	Containments During Power Operations Upon Discovery of Reactor Cooling System Leakage or a Train of a Safety System Inoperable			
144	Scram Without a Turbine/Generator Trip	03/88	03/92	LOW
145	Improve Surveillance and Startup Testing Programs	09/88	02/92	NR
147	Fire-Induced Alternate Shutdown/Control Room Panel Interactions	04/89	08/92	LI
148	Smoke Control and Manual Fire-Fighting Effectiveness	04/89	08/92	LI
154	Adequacy of Emergency and Essential Lighting	09/90	01/92	LOW
155.1	More Realistic Source Term Assumptions	02/91	02/92	NR
155.2	Establish Licensing Requirements for Non-Operating Facilities	02/91	04/92	RI
155.4	Improve Criticality Calculations	02/91	08/92	DROP
155.5	More Realistic Severe Reactor Accident Scenario	02/91	06/92	DROP
155.6	Improve Decontamination Regulations	02/91	08/92	DROP
155.7	Improve Decommissioning Regulations	02/91	04/92	DROP
156.1.1	Settlement of Foundations and Buried Equipment	02/91	08/92	S(IPEEE)
156.1.2	Dam Integrity and Site Flooding	02/91	01/92	DROP
156.1.3	Site Hydrology and Ability to Withstand Floods	02/91	01/92	DROP
156.1.4	Industrial Hazards	02/91	03/92	DROP

# GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-92 (Cont.	1			
156.1.5	Tornado Missiles	02/91	01/92	DROP
156.1.6	Turbine Missiles	02/91	10/91	DROP
156.2.1	Severe Weather Effects on Structures	02/91	01/92	DROP
156.2.2	Design Codes, Criteria, and Load	02/91	07/92	DROP
	Combinations			nnan
156.2.3	Containment Design and Inspection	02/91	05/92	DROP
156.2.4	Seismic Design of Structures, Systems, and Components	02/91	03/92	DROP
156.3.1.1	Shutdown Systems	02/91	03/92	DROP
156.3.1.2	Electrical Instrumentaion and Control	02/91	03/92	DROP
156.3.2	Service and Cooling Water Systems	02/91	03/92	DROP
156.3.3	Ventilation Systems	02/91	09/92	DROP
156.3.4	Isolation of High and Low Pressure	02/91	12/91	DROP
	Systems Automatic ECCS Switchover	02/91	11/91	S(24)
156.3.5		02/91	02/92	S(B-56)
156.3.6.1	Emergency AC Power	02/91	06/92	DROP
156.3.8	Shared Systems	02/91	11/91	S(142)
156.4.1	RPS and ESFS Isolation	02/91	03/92	S(120)
156.4.2	Testing of the RPS and ESFS	10/91	02/92	RESOLVED
157	Containment Performance	10/51	02,72	
<u>FY-93</u>				
146	Support Flexibility of Equipment and Components	01/89	09/93	RESOLVED
146	Adequacy of Fire Barriers	04/89	10/92	LOW
149 152	Design Basis for Valves That Might Be	03/90	01/93	FOM
	Subjected to Significant Blowdown Loads	02/91	01/93	DROP
155.3	Improve Design Requirements for Nuclear	00/01		
	Facilities	02/91	03/93	LOW
156.3.6.2	Emergency DC Power	10/91	09/93	DROP
159	Qualification of Safety-Related Pumps While Running on Minimum Flow	10/21		

# GENERIC ISSUES PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
FY-93 (Cont.				
160	Spurious Actions of Instrumentation Upon Restoration of Power	10/91	09/23	DROP
161	Use of Non-Safety-Related Power Supplies in Safety-Related Circuits	10/91	03/93	DROP
162	Inadequate Technical Specifications for Shared Systems at Multiplant Sites When One Unit Is Shut Down	10/91	07/93	DROP
164	Neutron Fluence in Reactor Vessel	10/92	03/93	DROP
	Adequacy of Fatigue Life of Metal Components	04/93	04/93	NR
166 168	Environmental Qualification of Electrical Equipment	04/93	04/93	NR
FY-94				
165	Spring-Actuated Safety and Relief Valve	10/92	11/93	HIGH
158	Reliability Performance of Power-Operated Valves Under Design Basis Conditions	09/91	01/94	MEDIUM

GENERIC ISSUES TO BE PRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/	Title	Identification	Current
Issue No.		Date	Schedule
156.6.1	Pipe Break Effects on Systems and Components Multiple Steam Generator Tube Leakage Combustible Gas Storage Facilities BWR MSIV Common Mode Failure Due to Loss of Accumulator Pressure	02/91	TBD
163		06/92	TBD
167		06/93	TBD
169		06/93	TBD
TOTAL: 4			

GENERIC ISSUES TO BE REPRIORITIZED AS OF 2ND QUARTER FY-94

Action Item/ Issue No.

Title

Previous Priority Identification Date Current Schedule

NONE

# REGULATORY IMPACT ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/Branch	Priority	Date Approved for Resolution	Resolution Date at end of FY-92	Current Resolution Date
NONE						

# LICENSING ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Office/ Division/ Branch	Resolution Date
67.5.1	Reassessment of Radiological Consequences	RES/DSIR/EIB	05/94
148	Smoke Control and Manual Fire-Fighting Effectiveness	RES/DSIR/SAIB	06/94
I.D.5(5)	Disturbance Analysis Systems	RES/DSR/HFB	09/94
TOTAL: 3			

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158	PERF OF SAFETY-RELATED POWER-OPERATED VALVES UNDER DESIGN BASIS CONDIT	36
165	SPRING-ACTUATED SAFETY AND RELIEF VALVE RELIABILITY	38
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I.D.5(5)	DISTURBANCE ANALYSIS SYSTEMS	80
TT H 2	OBTAIN DATA ON CONDITIONS INSIDE TMI-2 CONTAINMENT	62

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE 1

ISSUE NUMBER: 15

TITLE: RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS

IDENTIFICATION DATE: 06/80

PRIORITIZATION DATE: 02/89

TYPE - GST

PRIORITY - H

TASK MANAGER: R. JOHNSON

OFFICE/DIVISION/BRANCH: RES /DSIR/EIB

ACTION LEVEL: ACTIVE

STATUS

TAC NUMBERS

RESOLUTION DATE: 03/96

WORK AUTHORIZATION: FEB. 8, 1989 MEMO FROM E. BECKJORD TO R.W. HOUSTON

FIN	CONTRACTOR	CONTRACT TITLE
A2256 A38415 B5848 B6021 B61169 L1191 L1296 L2366 L2552	ANL BNL ORNL MEA LLNL NIST MPD NETWOR ORNL PAL ASSOCI INEL BNL ORNL	SHIPPINGPORT SHIELD TANK TESTING (MEB) TROJAN SUPPORT STABILITY ANALYSIS (ESGB) TROJAN SHIELD FLUX ATTENUATION (MEB) MTR IRRADIATION OF STRUCTURAL STEELS (MEB) CONSEQUENCE EVALUATION OF EMBRITTLED RPV SUPPORTS (SSEB) TROJAN CAVITY DOSIMETRY MEASUREMENT (MEB) NUCLEAR MATERIALS DATA RETRIEVAL FROM THE MPD NETWORK (EIB) HEAVY-SECTION STEEL IRRADIATION PROGRAM (MEB) RPV SUPPORTS TECHNICAL ASSISTANCE (EMTB) RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS (EIB) IRRADIATION ANALYSES (EIB) HFIR NEUTRON SPECTRUM MEASUREMENT (EIB)

#### WORK SCOPE

REVISED WORK SCOPE AS REPORTED FOR QUARTER 3.

QUANTITATIVELY EVALUATE THE HFIR NEUTRON FLUX OVER THE

FULL ENERGY SPECTRUM REEVALUATE THE SIGNIFICANCE OF THE MEASURED AND REPORTED CHANGES IN MECHANICAL PROPERTIES OF THE HEIR

PRESSURE VESSEL STEEL SURVEILLANCE SPECIMENS DETERMINE THE APPLICABILITY OF THE FINDINGS TO OPERATING REACTOR PRESSURE VESSEL SUPPORTS 4 RESOLVE GSI-15 WITH EITHER A GENERIC LETTER TO LICENSEES REQUESTING REASSESSMENT OF RPV SUPPORTS OR A CLOSEOUT MEMORANDUM IF THE SAFETY ASPECTS CAN BE ANNULLED.

#### STATUS

NUREG/CR-6117 WAS PUBLISHED. IT CONTAINS THE RESULTS OF EXPERIMENTAL AND CALCULATIONAL DOSIMETRY RELEVANT TO THE HEIR SURVEILLANCE SPECIMENS AND SUGGESTED THE EXCESS EMBRITTLEMENT (RELATIVE TO TEST REACTOR DATA) WAS INDUCED BY GAMMA RADIATION. BASED ON THE HEIR RESULTS, A GSI-15 RESOLUTION WAS PROPOSED AND THE NECESSARY DOCUMENTS DRAFTED. INCLUDING (1) A CLOSEOUT MEMORANDUM, (2) A REGULATORY

ANALYSIS, (3) AN INFORMATION NOTICE, AND (4) A NUREG CONTAINING THE BACKGROUND AND TECHNICAL FINDINGS. THE PROPOSED RESOLUTION IS BEING REVIEWED BY RES MANAGEMENT ALTHOUGH SOME SLIPPAGE OF MILESTONES (STAGES OF THE REVIEW PROCESS) OCCURRED, THE RESOLUTION DATE PROBABLY WILL MOVE UP SIGNIFICANTLY BY ELIMINATING PUBLIC COMMENTS AND A GL FROM NRR.

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GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 15

TITLE: RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

NO NEW PROBLEMS.

10 CFR 50 STANDARD REVIEW PLAN SECTIONS 3.9 AND 5.4 ASME SECTION III ASME SECTION XI ASTM STANDARD E1035

ORIGINAL DATE	CURRENT	DATE
***	~~	02/89
05/89	**	05/89
06/89		07/89
07/89		09/89
08/89	**	01/90
07/90		07/90
09/90		09/90
09/90	**	10/90
03/91		02/91
06/91		06/91
06/91	**	05/91
04/92	**	04/92
05/92		05/92
07/91	**	08/92
	DATE 05/89 06/89  07/89 08/89 07/90 09/90 09/90 09/90 03/91 06/91 06/91 04/92 05/92	DATE DATE  05/89  06/89  07/89  08/89  07/90  09/90  09/90  09/90  03/91  06/91  06/91  04/92  05/92

PAGE: 3

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

TITLE: RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS ISSUE NUMBER: 15

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
COMPLETE DOSIMETRY CONFIRMATION	10/92		02/93
IRRADIATE DOSIMETERS (L2552)	02/93		02/93
COMPLETE DOSIMETER MEASUREMENTS (L2552)	03/93		03/93
VERIFY HFIR FLUENCE (ORNL)	07/92		07/93
REPORT PEER-REVIEWED RESULTS (L2552)	06/93		08/93
PROPOSE SUPPORTS RADIATION MODEL	09/93		09/93
PROPOSE ISSUE RESOLUTION PATH	11/93		11/93
DRAFT PACKAGE TO DSIR DIRECTOR (REVIEW)	01/92		03/94
PROPOSED RESOLUTION PACKAGE TO OTHER OFFICES	02/92	04/94	
PROPOSED RESOLUTION TO CRGR AND ACRS	07/93	06/94	
PROPOSED RESOLUTION PACKAGE TO BE ISSUED FOR PUBLIC COMMENT (INCLUDES DRAFT GL)	08/92	08/94	
END PUBLIC COMMENT PERIOD	11/92	11/94	**
FINAL RESOLUTION PACKAGE INCLUDING COMM INFO PAPER PREPARED BY EIB	03/92	02/95	
FINAL RESOLUTION PACKAGE TO DSIR DIRECTOR (APPROVE)	03/93	03/95	
FINAL RESOLUTION PACKAGE TO OTHER OFFICES FOR REVIEW	05/93	07/95	
FINAL RESOLUTION PACKAGE TO CRGR AND ACRS	07/93	09/95	
FINAL RESOLUTION PACKAGE TO NRR FOR ISSUANCE	10/93	11/95	
NRR ISSUES GL	02/94	02/96	

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GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 15

TITLE: RADIATION EFFECTS ON REACTOR VESSEL SUPPORTS

M I L E S T O N E S

ISSUE CLOSEOUT MEMO

ORIGINAL DATE 03/93 CURRENT DATE 03/96 ACTUAL DATE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 5

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

JFFICE/DIVISION/BRANCH: RES /DSIR/EIB

ACTION LEVEL: ACTIVE

STATUS

RESOLUTION DATE: 06/95

TAC NUMBERS

WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN, (APPENDIX G)

FIN	CONTRACTOR	CONTRACT TITLE
A3751 A3771 A3806 A6322 B2953 B3049 D1760 W6211	BNL BNL BNL INEL PNL ETEC SCIENTECH BNL	REACTOR COOLANT PUMP (RCP) SEAL INTEGRITY ASSESS EFFECT OF MECH. MAINT. RCP SEAL EVAL. ADEQ. OF RCP SEAL INSTR. & RESP. TO RCP RCP SHAFT SEAL BEHAVIOR DURING ST. BLACKOUT REACTOR COOL. PUMP SEAL FAIL. VAL. IMP. ANALYSIS LEAK RATE ANALYSIS OF WESTINGHOUSE RCP REG. ANAL. FOR GI-23, RCP SEAL FAILURES SOLUTIONS TO MAINTAIN RCP SEAL INTEGRITY

### 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 NRG
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

AN NRR GENERIC LETTER FOR INFORMATION ONLY WAS ISSUED MAY 2. 1991. TO INFORM LICENSEES OF THE POTENTIAL IMPACT ON SBO ANALYSES. A FEDERAL REGISTER NOTICE WAS PUBLISHED APRIL 19. 1991. REQUESTING PUBLIC COMMENT ON DRAFT

REGULATORY GUIDE DG-1008 AND THE DRAFT REGULATORY ANALYSIS, NUREG-1401. THE STAFF DECIDED TO PROCEED WITH A RULEMAKING FOR OFF-NORMAL CONDITIONS, WHILE THE NORMAL CONDITIONS ARE BEING ADDRESSED BY A PROPOSED GENERIC LETTER.

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 5

ISSUE NUMBER 23

TITLE: REACTOR COOLANT PUMP SEAL FAILURES

AFFECTED DOCUMENTS
(1) THE FOLLOWING REPORTS HAVE BEEN ISSUED: NUREG/CR-4077, "REACTOR COOLANT PUMP SHAFT SEAL BEHAVIOR" NUREG/CR-4294, "LEAK RATE ANALYSIS OF THE WESTINGHOUSE REACTOR COOLANT PUMP"
NUREG/CR-4821, "REACTOR COOLANT PUMP SHAFT SEAL STABILITY DURING STATION BLACKOUT"
NUREG/CR-4643, "EVALUATION OF CORE DAMAGE SEQUENCES INITIATED BY LOSS OF REACTOR COOLANT PUMP SEAL COOLING"
NUREG/CR-4400, "THE IMPACT OF MECHANICAL AND MAINTENANCE- INDUCED FAILURE OF MAIN REACTOR COOLANT PUMP SEALS ON PLANT SAFETY"
NUREG/CR-4544, "REACTOR COOLANT PUMP SEAL-RELATED INSTRU- MENTATION AND OPERATOR RESPONSE"
NUREG/CR-4948, "TECHNICAL FINDINGS RELATED TO GI-23. REACTOR COOLANT PUMP SEAL FAILURES"
NUREG/CR-5167, "COST BENEFIT ANALYSIS FOR GI-23, REACTOR COOLANT PUMP SEAL FAILURE"
NUREG/CR-5918, "ANALYSIS OF PUBLIC COMMENTS ON GI-23, REACTOR COOLANT PUMP SEAL FAILURE" (IN PREPARATION)
(2) RULEMAKING RM-333 (3) REGULATORY GUIDE DG-1908

THE	STAFF	HAS	ACCUMUDA	IED	CKOK	CUMPIEN	12.

PROBLEM/RESOLUTION

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL
TAP ISSUED FOR COMMENT	04/83		03/83
TAP APPROVED BY DSI DIR	10/83	1 44 11 12	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

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## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 23

TITLE: REACTOR COOLANT PUMP SEAL FAILURES

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
COMPLETE DOCUMEN. OF BACKGROUND PAST SEAL FAILURES, INCLUDING LER SEARCH, REV OF INDUST. EXP.& REV.OF BWR SCR.(TASK1)	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	**	03/90
DTR PACKAGE COMPLETE	07/85		04/90
DIVISION DIRECTOR REVIEW COMPLETED	08/85		05/90
ACRS REVIEW OF DTR COMPLETE	11/85		09/90
CONCURRENCE BY OTHER OFFICES	09/85	**	10/90
DTR SENT TO CRGR	10/85		10/90
CRGR REVIEW OF DTR COMPLETE	11/85	**	03/91
FRN OF ISSUANCE OF PROPOSED RESOLUTION FOR PUBLIC COMMENT	12/85	**	04/91
DRAFT PERFORMANCE	07/91		08/91
PUBLIC COMMENT PERIOD ENDS	09/91	**	11/91
COMPLETE REVIEW AND COMPILATION OF PUBLIC COMMENTS	04/86	**	02/92
RECEIPT OF GUIDANCE FROM EDO ON RULEMAKING	05/92		11/92

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# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 23

TITLE: REACTOR COOLANT PUMP SEAL FAILURES

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
PROPOSED APPROACH TO NRR FOR NORMAL OPERATION	11/92		12/92
PREPARE PROPOSED RULE	09/92		05/93
DIVISION DIRECTOR REVIEW OF PROPOSED RULE COMPLETED	10/92		06/93
CONCURRENCE BY OTHER OFFICES OF PROPOSED RULE	11/92		10/93
LETTER TO NRR FOR BWR SEALS UNDER SBO	05/93	**	10/93
ACRS AND CRGR REVIEW OF PROPOSED RULE	12/92		11/93
PROPOSED RULE TO EDO/COMMMISSION	02/93	05/94	
COMPLETE DRAFT RESOLUTION OF TECHNICALO COMMENTS AND PREPARE RESPONSES TO ALL COMMENTS	03/92	05/94	
FRN OF ISSUANCE OF PROPOSED RULE FOR PUBLIC COMMENT	04/93	06/94	-+
PUBLIC COMMENT PERIOD ENDS	06/93	08/94	
RESOLVE PUBLIC COMMENTS	08/93	11/94	
PREPARE FINAL RULE	10/93	12/94	
DIVISION DIRECTOR REVIEW COMPLETED	11/93	01/95	
CONCURRENCE BY OTHER OFFICES	12/93	02/95	
ACRS AND CRGR REVIEW OF FTR COMPLETED	01/94	03/95	
FTR SENT TO EDO/COMMISSION	03/94	04/95	***
FRN OF ISSUANCE OF FTR	04/94	06/95	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

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ISSUE NUMBER: 24

TITLE: AUTOMATIC EMERGENCY CORE COOLING SWITCHOVER TO RECIRCULATION

IDENTIFICATION DATE: 03/83C

PRIORITIZATION DATE: 07/910

TYPE: GSI

PRIORITY: M

TASK MANAGER G. BURDICK

OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB ACTION LEVEL: ACTIVE

STATUS:

TAC NUMBERS:

RESOLUTION DATE: 01/95

WORK AUTHORIZATION: MEMORANDUM FROM E. BECKJORD TO W. MINNERS ON JULY 23, 1991

FIN

CONTRACTOR

CONTRACT TITLE

L1854

AUTOMATIC ECCS SWITCHOVER TO RECIRCULATION

### WORK SCOPE

RESOLUTION OF THIS ISSUE WILL BE ACCOMPLISHED BY A REEVALUATION OF THE STUDY PERFORMED IN 1981, USING UP-TO-DATE HUMAN RELIABILITY AND AUTOMATED EQUIPMENT PRA ANALYSIS METHODS TO DETERMINE THE CORE DAMAGE FREQUENCY AND RISK CHANGES (AND UNCERTAINTY) THAT WOULD RESULT FROM CHANGEOVER TO AN AUTOMATIC SWITCHOVER CONTROL SYSTEM. REEVALUATION WILL ALSO INCLUDE MAKING AN ESTIMATE OF WHAT IT

WOULD COST (WITH UNCERTAINTY) FOR A LICENSEE TO INSTALL SUCH AN AUTOMATIC SWITCHOVER CONTROL SYSTEM. THESE RESULTS WILL BE USED TO PROVIDE THE BASES FOR A STAFF RECOMMENDATION TO THE COMMISSION REGARDING WHETHER OR NOT PWR'S THAT CURRENTLY RELY ON A MANUAL SWITCHOVER SYSTEM SHOULD BE REQUIRED TO INSTALL AN AUTOMATIC SWITCHOVER SYSTEM.

#### STATUS

CONTRACT WORK UNDERWAY. FIRST LETTER REPORT (TASK 4.01, MODEL FOR MANUAL SWITCHOVER | SUBMITTED DURING LAST WEEK OF DECEMBER 1992.

#### AFFECTED DOCUMENTS

POTENTIAL CHANGES TO SRP.

#### PROBLEM/RESOLUTION

WORK WAS DELAYED IN STARTING DUE TO NRC STAFF DISAPPROVAL OF HUMAN FACTORS CONSULTANT. WORK HAS RECENTLY (1/5/93) BEEN DELAYED BY NRC REQUEST FOR ADDITIONAL WORK REGARDING JUSTIFICATION FOR HUMAN FACTORS METHOD SELECTED BY REPLACE-MENT HUMAN FACTORS CONSULTANT. SEA DRAFT REPORT WAS LATE ADDITIONAL ANALYSES AND EXTENSIVE REVISION OF THE DRAFT DOCUMENT ARE REQUIRED. A SECOND DRAFT MUST BE SUBMITTED ADDITIONAL DELAYS WERE CAUSED BY PROTRACTED DELIBERATION OF THE CONTRACTOR OVER THE REVISED SCOPE OF WORK.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM PAGE: 10

ISSUE NUMBER: 24

TITLE: AUTOMATIC EMERGENCY CORE COOLING SWITCHOVER TO RECIRCULATION

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
PRELIMINARY COMMUNICATION/NEGOTIATION WITH SEA	04,192	**	04/92
PREPARE DRAFT TASK ACTION PLAN	03/92		05/92
RFP TO SEA	04/92	44	04/92
ACCEPT SEA PROPOSAL (BEGIN WORK)	08/92	44	08/92
COMPLETE HF METHODS EVAL. [TASK 1]	10/92		12/92
APPLY TECHNIQUE (TASK 2)	10/92		03/93
BEST EST. COST OF CONVERSION (TASK 5)	01/93	-	01/93
DETERMINE CDF (TASK 3)	12/92		04/93
DETERMINE RELEASE (TASK 4)	12/92		04/93
DRAFT REPORT SUBMITTAL (TASK 6)	02/93	44	05/93
STAFF COMMENTS TO SEA	03/93	**	09/93
SUBMITTAL OF REDRAFT	11/93	04/94	
STAFF COMMENTS TO SEA	12/93	05/94	
SUBMITTAL OF CAMERA-KEADY COPY (TASK 8)	04/93	06/94	
STAFF-PREPARED RESOLUTION DOCUMENT RES DIRECTOR CONCUR	06/93	07/94	
STAFF-PREPARED RESOLUTION DOCUMENT ACRS AND CRGR REVIEW	08/93	08/94	
STAFF-PREPARED RESOLUTION DOCUMENT PUBLIC COMMENTS INCORPORATED	12/93	10/94	
STAFF-PREPARED RESOLUTION DOCUMENT EDO APPROVAL	01/94	11/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 11

ISSUE NUMBER: 24

TITLE: AUTOMATIC EMERGENCY CORE COOLING SWITCHOVER TO RECIRCULATION

MILESTONES

ORIGINAL CURRENT ACTUAL DATE

STAFF-PREPARED RESOLUTION DOCUMENT -NRC APPROVED

O3/94

O1/95

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 12

ISSUE NUMBER: 57

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

IDENTIFICATION DATE: 09/820

TYPE: GSI

PRIORITY: M

TASK MANAGER: R. WOODS

OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB

PRIORITIZATION DATE: 06/88C

ACTION LEVEL: ACTIVE

STATUS:

TAC NUMBERS:

RESOLUTION DATE: 02/940

WORK AUTHORIZATION: MEMO TO B. SHERON FROM E. BECKJORD DATED 6/8/88.

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

## WORK SCOPE

ACTUATIONS OF FIRE PROTECTION SYSTEMS (FPS'S) HAVE CAUSED DAMAGE TO PLANT EQUIPMENT WITH CONSIDERABLE FREQUENCY AND SAFETY IMPLICATIONS. A PROGRAM TO PESOLVE GI-57 WAS INITIATED IN FY 1989 INVOLVING THE EVALUATION OF FOUR PLANTS AND THE COLLECTION OF GENERIC PLANT DATA TO SUPPORT A GENERIC EVALUATION OF THE SAFETY CONCERNS OF GI-57. THESE EVALUATIONS INVOLVE REVIEWS OF FPS DESIGNS AND LAYOUTS.

PLANT WALKDOWNS, FIRE ZONE AND VITAL AREA ANALYSES,
CUTSETS DEVELOPMENT, RISK ESTIMATES, AND VALUE-IMPACT
ANALYSES OF POTENTIAL BACKFITS, INCLUDING UNCERTAINTY AND
SENSITIVITY ANALYSES. A TASK TO DEVELOP AND APPLY A
DECISIONMAKING UNDER UNCERTAINTY ANALYSIS METHOD WAS ADDED IN RESPONSE TO ACRS COMMENTS ON USE OF PRA'S

### STATUS

A CONTRACTOR'S FINAL REPORT FOR THE B&W PLANT EVALUATION WAS RECEIVED FOR PUBLICATION IN SEPTEMBER 1992. THE DRAFT FINAL GENERIC EVALUATION REPORT WAS RECEIVED IN AUGUST 1992 AND WAS PUBLISHED AS A SERIES OF NUREG/CR REPORTS IN DECEMBER 1992. PROPOSED RESOLUTION IS TO CONSIDER THE

PRINCIPAL COF-CONTRIBUTING EVENTS AS PART OF THE IPEEF AND RESOLVE ISSUE 57 WITH NO NEW REQUIREMENTS FINAL PACKAGE WITH RESOLUTION ISSUED 09/30/93. INFORMATION NOTICE BY NRR ISSUED 02/09/94.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM PAGE: 13

ISSUE NUMBER: 57 TITLE: EFFECTS OF FIRE PROT. SYS. ACTUATION ON SAFETY-RELATED EQUIP.

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

SRP SECTION 9.5.1.

NONE .

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
DEVELOP PRA SCOPE OF WORK	10/88		10/88
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\88
EPRI DRAFT REPORT ON EFFECTS OF FIRE SUPPRESSANTS	09/89	~~	11/89
LOADING OF PRA MODEL DATA FOR IP-2 EVALUATION (W PLANT)	11/89	0.00	11/89
DRAFT REPORT ON IP-2 EVALUATION (INEL)	05/90	**	05/90
DRAFT REPORT SNL/INEL ON SURRY/IP-2 EVALUATIONS	07/90	**	05/90
EQE SUBCONTRACT REPORT TO SNL	08/90		10/90
FINAL DRAFT CONTRACTOR REPORT TO RES FOR TWO WESTINGHOUSE PLANTS	01/91		01/91
DECISION ON BAW OR CE PLANT EVALUATION	01/91		01/91
DRAFT CONTRACTOR'S REPORT TO RES FOR GE PLANT	05/91		06/91
DRAFT SNL NUREG/CR FOR B&W PLANT	08/91	**	02/92

PAGE: 14

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 57 TITLE: EFFECTS OF FIRE PROT. SYS. ACTUATION ON SAFETY-RELATED EQUIP.

MILESTONES	ORIGINAL DATE	CURRENT	DATE
DRAFT SNL NUREG/CR FOR GENERIC EVAL.	05/92		08/92
REGULATORY ANALYSIS COMPLETE	06/92		10/92
PROPOSED RESOLUTION TO DD	11/92		04/93
PACKAGE TO ACRS	02/92		04/93
COMMUNICATION TO NRR RE MOST VULNERABLE PLANT	07/93	**	07/93
COMPLETE ACRS REVIEW	07/91		08/93
ISSUE CLOSEOUT MEMO FROM RES DIRECTOR TO EDO	07/92	**	09/93
MEMO TO NRR RE MOST VULNERABLE PLANT	10/93		11/93
MEMO TO NRR CLOSING MOST VULNERABLE PLANT ISSUE (NO NEW ACTIONS REQUIRED)	01/94		01/94
ISSUE INFORMATION NOTICE	02/84	**	02/94

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 15

ISSUE NUMBER 67.5.1

TITLE: REASSESSMENT OF SGTR DESIGN BASIS

IDENTIFICATION DATE: 06/83C

PRICRITIZATION DATE: 03/85C

TYPE: LI

PRIORITY:

TASK MANAGER: J. HOPENFELD

OFFICE/DIVISION/BRANCH: RES /DSIR/EIB

ACTION LEVEL: ACTIVE

STATUS: 5

TAC NUMBERS: NONE

RESOLUTION DATE: 05/94

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

FIN

CONTRACTOR -------- CONTRACT TITLE

A6879 INEL DRNL 80832

RISK ASSOCIATED WITH A SPECTRUM OF SGTR ACCIDENTS

STEAM GENERATOR TUBE RUPTURE

### WORK SCOPE

A STEAM GENERATOR TUBE RUPTURE. COMPLETE THE EXPERIMENTS ON IODINE PARTITION COEFFICIENTS. EVALUATE THE VALIDITY OF SRP IODINE SPIKE REQUIREMENTS IN LIGHT OF RECENT DATA

USING REST ESTIMATE MODELS. IDENTIFY MODIFICATIONS TO THE SRP. RESOLUTION OF GI 67.5.2 IS INCLUDED IN THE SCOPE OF THIS ISSUE

#### STATUS

THE ORNL EXPERIMENTS TO DETERMINE THE IODINE PARTITION COEFFICIENT ARE COMPLETE. THE INEL EVALUATION OF PLANT IODINE SPIKING DATA HAS BEEN COMPLETED. INEL ANALYSIS OF SECONDARY SYSTEM PH FOLLOWING AN SGTR HAS BEEN COMPLETED.

INEL EVALUATION OF PROPOSED MODEL MODIFICATIONS ON OFFSITE DOSE HAS BEEN COMPLETED. A DRAFT RESOLUTION PACKAGE HAS BEEN PREPARED AND IS UNDER MANAGEMENT REVIEW

### AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

SRP

ACRS REQUESTED A REVIEW IN OCTOBER BUT CONFLICTS WITH GSI-23. THE STAFF MADE A PRESENTATION TO ACRS IN JANUARY 1994.

MILESTONES

ORIGINAL DATE ------- CURRENT DATE

ACTUAL DATE

PREPARE DRAFT TAP

06/87

05/87

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM PAGE: 16

ISSUE NUMBER: 67.5.1

TITLE: REASSESSMENT OF SGTR DESIGN BASIS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
REVISE DRAFT TAP TO INCLUDE PROBABILISTIC ASSESSMENT OF SGTR	10/87		12/87
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 AND ORNE 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 INEL 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		11/89
DRAFT REG ANALYSIS SENT TO NRR FOR COMMENT	07/90		08/90
COMMENTS ON DRAFT REG ANALYSIS RECEIVED FROM NRR	01/91		04/91
DRAFT REPORT ON SECONDARY PH	03/91		11/91
FINAL REPORT ON SECONDARY PH	05/91		01/92
DIR PACKAGE FOR DEPUTY DIRECTOR COMMENT	10/88		01/92
DRAFT FINAL REPORT ON DOSE CALCULATIONS	07/92		10/92
CONTRACTOR PRESENTATION OF FINAL RESULTS	11/92		11/92
REVISE DTR PACKAGE TO DEPUTY DIRECTOR FOR COMMENT	07/92		11/92

RUN DATE: 04/25/94

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PAGE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

TITLE: REASSESSMENT OF SGTR DESIGN BASIS

67.5.1

ISSUE NUMBER

05/94	TRANSMIT TO ACRS RESOLUTION WITH SRP REVISION RECOMMENDATIONS	ORIGINAL DATE 06/93	CURRENT	ACTUAL DATE 08/93
09/93 05/94	Burn.	68/83	1	01/94
08/83	RES MEMO TO NRR TRANSMITTING SRP REVISION RECOMMENDATIONS	09/93		02/94
	RESOLUTION TO EDO	08/80	05/94	1

### GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 18

ISSUE NUMBER: 78

TITLE: MONITORING OF FATIGUE TRANSIENT LIMITS FOR REACTOR COOLANT

IDENTIFICATION DATE: 05/830

PRIORITIZATION DATE: 07/920

TYPE:

PRIORITY: M

TASK MANAGER: S. DIAB

OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE

STATUS: 4

TAC NUMBERS

RESOLUTION DATE: 06/94

WORK AUTHORIZATION: 7/10/92 MEMO/BECKJORD TO MINNERS, "MONITORING OF FATIGUE..."
4/1/93 MEMO/BECKJORD TO SNIEZEK, "RESOLUTION OF FATIGUE..."

FIN

CONTRACTOR

CON . CT TITLE

W6077

ANL

STATISTICAL ANALYSIS OF FATIGUE Data

### WORK SCOPE

COMPONENT OF THE RCPB FOR ALL OPERATING PLANTS. THIS

TO DEVELOP GUIDANCE ON POTENTIAL FATIGUE DEGRADATION OF GUIDANCE IS APPLICABLE TO THOSE REMAINING YEARS OF PLANT OPERATION UNDER THE CURRENT 40-YEAR LICENSE.

#### STATUS

BECAUSE THE ORIGINAL DESIGN BASIS OF THE REACTOR COOLANT PRESSURE SOUNDARY (RCPB) DID NOT ACCOUNT ADEQUATELY FOR THE EFFECTS OF THE REACTOR COOLANT HARSH ENVIRONMENTS DURING OPERATION ON THE RCPB FATIGUE RESISTANCE, GENERIC ISSUE 78 WAS ESTABLISHED TO ASSESS THE INCREASE IN RISK DUE TO OPERA-TION UNDER THE HARSH ENVIRONMENT

A DRAFT PRA PARAMETRIC STUDY WAS CONDUCTED TO ASSESS THE RISK CONTRIBUTION OF VARIOUS COMPONENTS OF THE RCPB. THAT STUDY WAS ISSUED FOR PEER REVIEW AND COMMENT ON NOVEMBER 20. 1992. THE DRAFT PRA STUDY TENTATIVELY IDENTIFIED SOME HIGH RISK RCPB COMPONENTS. ALSO, THE DRAFT PRA STUDY IDENTIFIED SOME AREAS WHERE THERE IS A LACK OF INFORMATION. THESE AREAS ARE CURRENTLY LUNDE'S STUDY BY ANL (CONTRACT FIN-6077-3]. THE ANL CONTRACT INCLUDES A STATISTICAL

ANL STATISTICAL STUDY OF FATIGUE IS COMPLETED, FINAL CONCLUSIONS CAN BE MADE ABOUT RISK SIGNIFICANT COMPONENTS FROM THE FATIGUE STANDPOINT. ALSO, THE STUDY RESULTS MAY BE USED IN VALUE-IMPACT ANALYSES, IF NECESSARY, TO SUPPORT ANY POSSIBLE BACKFIT REQUIREMENTS BY THE STAFF.

GENERIC ISSUE 166 ENTITLED "MONITORING OF FATIGUE
TRANSIENT LIMITS FOR REACTOR COCLANT" WAS INITIATED BY AN

ANALYSIS OF RELEVANT AND UP-TO-DATE FATIGUE DATA. WHEN THE

NRR MEMORANDUM FROM T. MURLEY TO J. SNIEZEK, DATED APRIL 1.

THE OUTCOME OF THE CONTRACTUAL STUDY BY ANL UNDER GI-78 WILL BE INTEGRATED IN THE NRR WORK SCOPE AS IT DEVELOPS THE PROGRESS AND THE DETAILS OF THE ONGOING ANL WORK WILL BE MONITORED UNDER GI-78.

#### AFFECTED DOCUMENTS

\*\*\* TO BE DETERMINED \*\*\*

#### PROBLEM/RESOLUTION

THE DRAFT AND REPORT ARRIVED A MONTH LATE. PEER REVIEW IS NOW UNDERWAY. AS A RESULT OF THIS DELAY, WE ANTICIPATE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 19

ISSUE NUMBER 78

TITLE: MONITORING OF FATIGUE TRANSIENT LIMITS FOR REACTOR COOLANT

AFFECTED DOCUMENTS

## PROBLEM/RESOLUTION

THE FINAL REPORT WILL BE ISSUED IN MAY 1994. THE PRA ANALYSIS AND THE CLOSEOUT MEMORANDUM ARE NOW PROJECTED TO BE COMPLETED IN MAY AND JUNE 1994. RESPECTIVELY.

	MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
G	I-78 ASSIGNED TO RES/DSIR/EIB	07/92		07/92
	RAFT PRA PARAMETRIC STUDY ISSUED FOR PEER EVIEW AND COMMENT TO OTHER NRC DIVISIONS	10/92		11/92
	REPARE DRAFT SOW FOR ANL CONTRACT IN-6077-3	02/93	**	02/93
5	OW APPOVED BY DSIR DIRECTOR	03/93	**	03/93
I	SSUE SOW FOR ANL CONTRACT FIN-6077-3	03/93	**	03/93
А	NL RECEIVES NRC/RES APPROVAL TO START WOPK	05/93		06/93
	NL/RES MEETING TO DISCUSS STATISTICAL	07/93	**	07/93
Α	NL PRESENTATION TO RES AND NRR	02/94	**	02/94
A	NL COMPLETES DRAFT REPORT	08/93		03/94
A	NL COMPLETES FINAL REPORT	09/93	05/94	44-1
R	EVISE PRA ANALYSIS OF FATIGUE ISSUE	03/94	05/94	
C	CLOSEOUT MEMO TO NRR	04/94	06/94	

### GEMERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 20

ISSUE NUMBER: 83

TITLE: CONTROL ROOM HABITABILITY

IDENTIFICATION DATE: :1/83C

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: 08/94

WORK AUTHORIZATION: MEMO FOR H. DENTON FROM W. DIRCKS, DATED 8/15/83

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

#### WORK SCOPE

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

TWO TASKS (DEVELOP MODELS OF CHALL AND REVIEW PROCEDURES) HAVE BEEN ADDED.

SUMMARIZING RESULTS AND PROVIDING RECOMMENDATIONS. TWO TASKS (DEVELOP MODELS OF CHALLENGES TO HABITABILITY

#### STATUS

FINAL REPORT FROM SAIC ON "CONTROL ROOM HABITABILITY SYSTEM REVIEW MODELS" (NUREG/CR-5659) ISSUED IN DECEMBER 1990.
FINAL REPORT FROM PNL ON EXTRAN COMPUTER CODE
[NUREG/CR-5656] ISSUED IN MARCH 1991. PNL CONTRACTOR
REPORT ON TOXICITY LEVELS ISSUED JULY 1991 (NUREG/CR-5669). NRR GENERIC LETTER IN CONCURRENCE. PNL HABITABILITY MODEL RECEIVED: BEING CHECKED. PNL CONTRACT EXTENDED UNTIL JUNE 1994 TO COMPLETE NUREG/CR AND PROVIDE CONSULTATION TO NRR. UPON COMPLETION OF NUREG/CR, CLOSEOUT MEMORANDUM WILL BE PREPARED FOR ACRS.

# AFFECTED DOCUMENTS

SRP 6 4, 9 4.1, 12.3 6.5.1, 2.3, 2.2.1- 3, 9.5.1, RGS 1.78, 1.95, 1.29, 1.52, 1.101, 1. 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

PROPOSED GL HAS BEEN PLACED ON HOLD.

PAGE: 21

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 83

TITLE: CONTROL ROUM HABITABILITY

MILESTONES	ORIGINAL DATE	CURRENT	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
REP 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		09/65
COMPLETE VISIT TO 11 OPERATING REACTORS	09/86		01/87
ISSUE TRANSFER MEMO TO RES	03/87		12/87
SOW SENT TO PNL FOR "MATHEMATICAL MODELS OF CONTROL ROUM HABIT- ABILITY SYSTEMS EFFECTIVENESS" (FIN B2929-8)	04/88	**	04/88
SOW SENT TO SAIC FOR "CONTROL ROOM VULNER- ABILITIES" FIN 020969	24/88		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 FPFP	10/88	**	11/88

PAGE: 22

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 83

TITLE: CONTROL ROOM HABITABILITY

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
DRAFT CODE EXTRAN	10/88		12/88
DRAFT REPORT ON TOXIC LEVELS	11/88		01/89
PNL CONTRACT EXTENDED ON "NO-COST BASIS" UNTIL 63/90	10/89		10/89
ISSUE SAIC CONTRACT	03/89		10/89
REVISE TASK ACTION PLAN	10/89		03/90
RECOMMENDED REVISED DOSE ASSESSMENT MODELS	09/89		06/90
FINAL REPORTS ON MODELS STUDY	02/89	22	07/91
DRAFT CLOSEOUT MEMO	07/91		05/93
PNL "HABIT" COMPUTER CODE DOCUMENTATION (NUREG/CR)	09/92	05/94	
INFORMATION NOTICE DRAFT	06/94	06/94	
ISSUE MEMO TO ACRS	07/91	08/94	
ACRS REVIEW	08/93	07/94	
CLOSEOUT MEMO	09/93	08/94	-

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 23

ISSUE NUMBER 105

TITLE: INTERFACING SYSTEMS LOCA AT LWRS

IDENTIFICATION DATE: 10/840

PRIORITIZATION DATE: 06/850

TYPE: GSI

PRIDRITY: H

TASK MANAGER: G. BURDICK

STATUS 3B

TAC NUMBERS

OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB ACTION LEVEL: ACTIVE

RESOLUTION DATE: 06/930

WORK AUTHORIZATION: MEMO FOR R. BERNERO FROM H. DENTON DATED 6/11/85

CONTRACTOR FIN \_\_\_\_\_ CONTRACT TITLE

A3822 B5839 BNL INEL

INTERFACING SYSTEMS LOCA INTERSYSTEM LOCA (GI-105)

### WORK SCOPE

PERFORM A DETAILED IS-LOCA SPECIFIC PRA FOR 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 (PIVS) AND RESULTING INTERFACING SYSTEMS LOCA. WHEN SUFFICIENT PROGRESS IS MADE ON PWR STUDIES, AND IN LIGHT OF INSIGHTS THUS GAINED, THE BWR WORK SCOPE WILL BE FORMULATED. 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 LOW PRESSURE SYSTEMS, SHOULD BE PERIODICALLY LEAK-RATE TESTED OR VISUALLY INSPECTED. SOME BIDER PLANTS DO NOT PERFORM SUCH TESTS ON ALL PIV'S STUDIES HAVE BEEN PERFORMED TO ATTEMPT TO DETERMINE IF IMPOSING SUCH PERIODIC TESTING ON ALL PIV'S IN ALL PLANTS IS JUSTIFIED. THESE STUDIES SUPPLEMENT THOSE ONGOING TO IDENTIFY SIGNIFICANT HARDWARE AND HUMAN CONTRIBUTIONS TO RISK OF IS-LOCA OUTSIDE CONTAINMENT FROM 3 PWR'S.

#### STATUS

THE RESOLUTION OF GI-105 WILL ENCOMPASS GI-98, "RHR SUCTION VALVE TESTING. " THE PERTINENT MILESTONES FROM GENERIC ISSUE II E 6 1 HAVE BEEN TRANSFERRED TO GENERIC ISSUE 105 AND REVISED. NUREG/5102, "INTERFACING SYSTEM LOCA IN PWR'S." AND NUREG/5154, "INTERFACING SYSTEM LOCA IN BWR'S." ARE COMPLETE. ETEC HAS ALSO COMPLETED A STUDY OF THE EFFECTIVENESS OF LEAK-RATE TESTING AS AN INDICATION OF VALVE CONDITION. NUREG/CR-5604. "ASSESSMENT OF IS-LOCA RISK-METHODOLOGY AND APPLICATION TO A BASCOCK AND WILCOX NUCLEAR POWER PLANT, " WAS PUBLISHED IN APRIL 1992 AS WERE

NUREG/CR-5744 AND NUREG/CR-5745 FOR WESTINGHOUSE AND CE PLANTS RESPECTIVELY. PUBLISHED IN MAY WAS NUREG/CR-5862. "SCREENING METHODS FOR DEVELOPING INTERNAL PRESSURE CAPACITIES IN SYSTEMS INTERFACING WITH NUCLEAR POWER PLANT REACTOR COOLANT SYSTEMS. "RESOLUTION PACKAGE DELIVERED TO ACRS AND NR. PACKAGE CONSISTS OF INFORMATION NOTICE. FINAL NUREG/CR, AND REGULATORY ANALYSIS. ADVANCED REACTOR SRP DRAFT SENT TO NRR. ACRS MEETING HELD. AND ACRS CONCURRENCE LETTER RECEIVED. RESOLUTION MEMORANDUM SENT AND EDO CONCURRENCE RECEIVED. THE ISSUE IS RESOLVED

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 24

ISSUE NUMBER 105

NONE .

TITLE : INTERFAC & SYSTEMS LOCA AT LWRS

AFFECTED DOCUMENTS		PROBLEM/RESOL	UTION	
	NONE			
MILESTONES	ORIGINAL DATE	CURRENT	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 PRELIMINARY DISCUSSION OF WORK PLAN WITH BNL	06/85		06/85	
BNL PRELIMINARY COST ESTIMATE OF WORK PLAN DEVELOP WORK PLAN AND CONTRACT PROPOSAL; DRAFT WORK PLAN TO DIRECTORS DSI, DE, DL, DHFS, AEOD	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	
ISSUE CONTRACT TO BML	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 ALL LICENSEES ASKING FOR PROOF OF VERIFICATION 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 APPROVE 50.54(F) LTR TO ALL LICENSEES RE VERIF. OF PIV'S: [NRR/DSRO] ISSUE 10CFR50.54(F) LTR ON PIV VERIFICATION	09/86		03/87	

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## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER 105

TITLE: INTERFACING SYSTEMS LOCA AT LWRS

MILESTONES	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
(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 BOUNDARY	01/87		10/87
FINAL DRAFT REPORTS RECEIVED FROM BNL INCLUDING VALUE/IMPACT ANALYSIS	07/86		02/88
PUBLISH NUREG REPORTS	02/89		02/89
REVISED TAP	04/89		02/90
NRR IS-LOCA AUDITS OF THREE PLANTS	04/90		08/90
COMPLETE B&W PLANT ANALYSIS	09/90		09/90
PUBLISH IMPEL COMPONENT FRAGILITY RESULTS	09/90		10/90
ACRS REVIEW B&W PLANT ANALYSIS COMPLETE WESTINGHOUSE ANALYSIS	11/90		12/90
COMPLETE CE PLANT ANALYSIS	12/90		06/91
EVALUATE IS-LOCA INSIDE CONTAINMENT EVALUATE IS-LOCA EXTERNAL EVENT INITIATORS	12/90		06/91
ENVIRONMENTAL QUALIFICATION ANALYSIS	08/91		08/91
BWR SITE VISIT	10/91	**	10/91
DGCB GUIDANCE REQUESTED	04/92		04/92
ADVANCED REACTOR INSIGHTS	04/92		05/92
NRR INFORMATION NOTICE	04/92	**	05/92
LEAD PM ASSIGNMENT REQUESTED	04/92	**	06/92
PWR AUX BLDG SURVEY	02/92	**	06/92
PWR ANALYSIS COST ESTIMATE	12/92		09/92

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# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER 105

TITLE: INTERFACING SYSTEMS LOCA AT LWRS

MILESTONES	DRIGINAL DATE	CURRENT	ACTUAL DATE
BWR ANALYSIS	03/92		10/92
DRAFT NUREG/CR AND PACKAGE TO ACRS	03/92	**	04/93
ACRS MEETINGS	10/88		05/93
FINAL NUREG/CR	03/92	**	06/93
RESOLUTION PACKAGE TO EDO	10/89	*-	06/93
EDO CONCURRENCE	06/93	**	06/93
REG ANALYSIS PUBLISHED	07/93	11111	07/93
PURLISH IN	10/93	04/94	**

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 27

ISSUE NUMBER: 145

TITLE: ACTIONS TO REDUCE COMMON CAUSE FAILURES

IDENTIFICATION DATE: 07/850

PRIORITIZATION DATE: 02/92C

TYPE: GSI

PRIORITY: M

TASK MANAGER : E. CHELLIAH

OFFICE/DIVISION/BRANCH: RES /DSIR/PRAB

ACTION LEVEL: ACTIVE

STATUS: NR

RESOLUTION DATE: 05/94

TAC NUMBERS

WORK AUTHORIZATION, MEMORANDUM FROM E. S. BECKJORD TO W. MINNERS DATED

FEBRUARY 11, 1992

FIN

CONTRACTOR

CONTRACT TITLE

L2553

BNL

TECHNICAL SUPPORT TO GI-145

WORK SCOPE

THE ACTIONS REQUIRED TO RESOLVE THE ISSUE ARE MINIMAL. T SCOPE OF THE ISSUE IS ONLY TO COLLECT THE INFORMATION

E

AVAILABLE ON COMMON MUDE FAILURES AND PUBLISH IT IN A NUREG REPORT, SO AS TO BE READILY AVAILABLE TO LICENSEES.

PROBLEM/RESOLUTION

STATUS

BNL SUBMITTED A FINAL REPORT TO DSIR/PRAB. DSIR ALSO INITIATED A FREPARATION ORDER FOR CONTRACT CLOSE OUT ON

01/03/94.

AFFECTED DOCUMENTS

POSSIBLE NUREG/CR

NONE .

ACTUAL CURRENT ORIGINAL DATE DATE DATE MILESTONES ------02/92 COMPLETION OF GI PRIORITIZATION 02/92 04/92 04/92 COMPLETION OF TAP 04/93 01/93 ISSUE CONTRACT FUND

PAGE: 28

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 145 TITLE: ACTIONS TO REDUCE COMMON CAUSE FAILURES

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
CONTRACTOR'S DRAFT FINDINGS	06/92		09/93
STAFF'S FINDINGS (DSIR)	10/92	100	11/93
CONTRACTOR'S FINAL FINDINGS	09/92		12/93
DECISION ON STAFF'S FINDINGS TO PUBLIC	11/92	05/94	-
CLOSEOUT ISSUE	01/93	05/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 29

ISSUE NUMBER 147

TITLE: FIRE-INDUCED ALTERNATE SHUTDOWN/CONTROL ROOM PANEL INTERACTIONS

IDENTIFICATION DATE: 06/890

PRIORITIZATION DATE: 08/92C

TYPE: LI

PRIORITY

TASK MANAGER . J. CHEN

OFFICE/DIVISION/BRANCH: NRR /DSIR/SAIB ACTION LEVEL: ACTIVE

STATUS: 5

TAC NUMBERS:

RESOLUTION DATE: 03/94C

WORK AUTHORIZATION: MEMORANDUM FOR W. MINNERS FROM E. BECKJORD DATED AUGUST 26.

1992

FIN

CONTRACTOR

CONTRACT TITLE

NONT

-------NONE

NONE

WORK SCOPE

TO DEVELOP GUIDANCE FOR THE STAFF REVIEW OF LICENSEE IPEEE SUBMITTALS IN THE AREA RELATED TO FIRE-INDUCED ALTERNATE

SHUTDOWN/CONTROL ROOM PANEL INTERACTIONS

STATUS

TASK REASSIGNED TO SAIB IN FEBRUARY 1993.

INTERACTION

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

TO BE DETERMINED.

NONE .

ACTUAL CURRENT ORIGINAL DATE DATE DATE MILESTONES 09/92 09/92 GI-147 ASSIGNED TO RES/DSIR/EIB 02/93 02/93 REASSIGNED TO SAIB 09/93 DRAFT STAFF REVIEW GUIDANCE ON FIRE-INDUCED 08/93 ALTERNATE SHUTDOWN/CONTROL ROOM PANEL

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 30

ISSUE NUMBER: 147

TITLE: FIRE-INDUCED ALTERNATE SHUTDOWN/CONTROL ROOM PANEL INTERACTIONS

M I L E S T O N E S STAFF IPEEE REVIEW GUIDANCE FOR GI-147 ORIGINAL DATE 10/93 CURRENT

ACTUAL DATE 03/94

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE 31

ISSUE NUMBER 148

TITLE: SMOKE CONTROL AND MANUAL FIRE-FIGHTING EFFECTIVENESS

IDENTIFICATION DATE: 04/89C

PRIORITIZATION DATE: 08/92C

TYPE: LI

PRIORITY

TASK MANAGER: J. CHEN

OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB ACTION LEVEL: ACTIVE

STATUS

TAC NUMBERS

RESOLUTION DATE: 06/94

WORK AUTHORIZATION MEMORANDUM FROM E. S. BECKJORD TO W. MINNERS DATED

AUGUST 26, 1992

FIN

CONTRACTOR

CONTRACT TITLE

WORK SCOPE

TO DEVELOP STAFF GUIDANCE FOR THE REVIEW OF LICENSEES' MANUAL FIRE-FIGHTING EFFECTIVENESS. IPEEE SUBMITTALS RELATED TO THE EFFECTS OF SMOKE AND

STATUS

TASK REASSIGNED TO SAIB/SECTION B IN FEBRUARY 1993.

SCHEDULE CHANGED TO CONFORM TO IPEEE SCHEDULE

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

POSSIBLE NUREG/CR.

NONE .

CURRENT ACTUAL ORIGINAL DATE DATE DATE MILESTONES ------09/92 09/92 GI-148 ASSIGNED TO RES/DSIR/RPSI 02/93 02/93 4.5 REASSIGNED TO SAIB DRAFT STAFF REVIEW GUIDANCE RELATED TO SMOKE 09/93 05/94 AND MANUAL FIRE-FIGHTING EFFECTIVENESS

PAGE: 32

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 148

TITLE: SMOKE CONTROL AND MANUAL FIRE-FIGHTING EFFECTIVENESS

MILESTONES DRIGINAL CURRENT ACTUAL DATE DATE

STAFF REVIEW GUIDANCE FOR GI-148 11/93 06/94

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 33

ISSUE NUMBER 155.1

TITLE: MORE REALISTIC SOURCE TERM ASSUMPTIONS

IDENTIFICATION DATE: 03/79

PRIORITIZATION DATE: 02/92C

TYPE: GSI

PRIORITY

TASK MANAGER L. SOFFER

OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB ACTION LEVEL: ACTIVE

STATUS: NR

RESOLUTION DATE 07/94

TAC NUMBERS

WORK AUTHORIZATION: MEMO FOR W. MINNERS FROM E. BECKJORD DATED 2/26/92

FIN	CONTRACTOR	CONTRACT TITLE
B0854 L1535 L1611 L2035 W6067	ORN'S BNL INEL SNL ORNL	IODINE CHEMICAL FORMS RADIONUCLIDE RELEASE CHARACTER TIMING ANALYSIS OF FUEL FAILURES SOURCE TERM REMOVAL MECHANISMS CHEMICAL FORM OF SOURCE TERMS

#### WORK SCOPE

DEVELOP A REVISED ACCIDENT SOURCE TERM TO REPLACE THAT GIVEN IN TID-14844 MAKING USE OF CURRENT RESEARCH INSIGHTS ON FISSION PRODUCT TIMING, COMPOSITION, MAGNITUDE,

AND IODINE CHEMISTRY. IMPLEMENT REVISED ACCIDENT SOURCE TERM, TOGETHER WITH SEVERE ACCIDENT INSIGHTS. IN A REVISION OF 10 CFR PART 50

#### STATUS

FINAL REPORTS ON IDDINE CHEMICAL FORM AND TIMING (NUREG/CR-5732 AND NUREG/CF-5787) HAVE BEEN ISSUED. DRAFT REPORT ON FISSION PRODUCT COMPOSITION AND MAGNITUDE (NUREG/CR-5747) HAS BEEN ISSUED. CONTRACTOR STUDIES ON FISSION PRODUCT REMOVAL MICHANISMS ARE CONTINUING. A COMMISSION PAPER [SECY-92-127] AND DRAFT PROPOSED NUREG REPORT CONTAINING A REVISED ACCIDENT SOURCE TERM HAVE BEEN ISSUED. A COMMISSION MEETING WAS HELD ON APRIL 20, 1992. NUREG-1465 ISSUED

JULY 28, 1992. BNL AND ORNL REVIEW OF PUBLIC COMMENTS RECEIVED APRIL 27, 1993. ORNL REPORT ON MELCOR RESULTS (NUREG/CR-5942) HAS BEEN ISSUED. FINAL SNL REPORT ON DE OF OVERLYING POOL (NUREG/CR-5901) ISSUED FINAL BNL REPORT ON FISSION PRODUCT COMPOSITION AND MAGNITUDE (NUREG/CR 5747) ISSUED. FINAL SNL REPORT ON MELCOR (NUREG/CR-6107) ISSUED

#### AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

R G 1 3 1 4, SRP 15.6.5 R G 1 7 1 25

DELAYS AT SNL IN COMPLETING NUREG/CR REPORTS

PAGE 34

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 155.1

TITLE: MORE REALISTIC SOURCE TERM ASSUMPTIONS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
IDDINE/TID SCHEDULE TO COMMISSION	04/90		05/90
PRA BASED SOURCE TERM PAPER TO COMMISSION	05/90		05/90
FISSION PRODUCT TIMING PAPER TO COMMISSION	07/90		08/90
REVISED BNL DRAFT REPORT	07/90		08/90
TID REPORT SCHEDULE - IODINE CHEMICAL FORM REPORT ISSUED FOR COMMENT	12/90		07/91
PROPOSED REV. TO TID TO RES DIRECTOR	07/91	1	09/91
PROPOSED REVISION TO NRR/OGC	09/91		09/91
DRAFT TID TO ACRS	11/91		12/91
COMPLETE ACRS REVIEW	12/91		01/92
OFFICE CONCURRENCE ON TID	10/91		04/92
DRAFT BNL REPORT ISSUED FOR COMMENT	07/91		02/92
TID TO EDO	01/92		04/92
TID TO COMMISSION	02/92		04/92
FISSION PRODUCT TIMING REPORT ISSUED FOR COMMENT (INEL)	12/90		03/92
ISSUE REVISED TID FOR COMMENT	02/92		07/92
ISSUE ORNL IODINE REPORT AS FINAL	04/92		04/92
SNL REPORT ON POOL OF NUREG/CR ISSUED FOR COMMENT	08/92	**	09/92
ISSUE INEL REPORT FINAL	08/92		09/92
END COMMENT PERIOD ON DRAFT SOURCE TERM NUREG	08/92		10/92

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# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER 155.1

TITLE: MORE REALISTIC SOURCE TERM ASSUMPTIONS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
RESPONSE TO SRM ON IMPACT OF INCREASED AMOUNT OF RADIATION (WITS 9200124) DRAFT COMMISSION PAPER AVAILABLE	09/92		11/92
RES CONCURRENCE	09/92		12/92
COMMISSION PAPER TO EDO AND OFFICE CONCURRENCE	10/92	**	01/93
COMMISSION PAPER TO COMMISSION	11/92	**	02/93
SNL SPRAY NUREG/CR ISSUED FINAL	11/92		06/93
ORNL NUREG/CR ON MELCOR ISSUED	09/93	**	09/93
SNL REPORT ON POOL OF NUREG/CR ISSUED FINAL	11/92	**	11/93
ISSUE BNL REPORT FINAL	06/92		11/93
SNL NUREG/CR ON MELCOR ISSUED	11/93		03/94
SNL SUPP. POOL NUREG/CR ISSUED FINAL	03/93	05/94	
SNL AEROSOL NUREG/CR ISSUED FINAL	03/93	07/94	**
COMPLETE REVISED DRAFT SOURCE TERM NUREG (FOR USE WITH PART 50 REVISION)	11/92	06/94	
TRANSMIT CLOSEOUT MEMO TO ACRS	11/92	06/94	
ISSUE CLOSEOUT MEMO	12/92	07/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 36

ISSUE NUMBER 158

TITLE: PERF OF SAFETY-RELATED POWER-OPERATED VALVES UNDER DESIGN BASIS CONDIT

IDENTIFICATION DATE: 09/910

PRIORITIZATION DATE: 01/94C

TYPE: GSI

PRIORITY M

TASK MANAGER G. BURDICK

OFFICE/DIVISION/BRANCH: RES /DSIR/SAIB ACTION LEVEL: ACTIVE

STATUS-

TAC NUMBERS

FIN

RESOLUTION DATE:

WORK AUTHORIZATION: MEMORANDUM FROM E. BECKJORD TO J. MURPHY ON JANUARY 26.

CONTRACTOR

CONTRACT TITLE

WORK SCOPE

STATUS

A QUICK REVIEW OF THIS ISSUE HAS BEEN AUTHORIZED IN ACCORDANCE WITH RES OFFICE LETTER NO. 3.

AFFECTED DOCUMENTS

\*\*\* TO BE DETERMINED \*\*\*

PROGLEM/RESOLUTION

A MASSIVE AMOUNT OF DATA HAS BEEN COLLECTED IN CONNECTION WITH THIS ISSUE. A DECISION HAS BEEN MADE TO ENLIST CONTRACTOR ASSISTANCE TO SORT AND CATEGORIZE THE DATA AND ASSIST IN THE RESOLUTION

	I I	LE	\$	T O	N	E S		
QUICK REVIEW	COM	PLE	TE					 
PROGRAM PLAN	COM	PLE	TE					
CONTRACTOR SE	ELEC	TED						

ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
04/94	04/94	
05/94	05/94	
06/94	06/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 37

ISSUE NUMBER 158

TITLE: PERF OF SAFETY-RELATED POWER-OPERATED VALVES UNDER DESIGN BASIS CONDIT

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
PROGRAM ASSUMPTION	05/94	06/94	**
NRC FORM 189 RECEIVED	08/94	08/94	
PROPOSAL ACCEPTED	08/94	08/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 38

ISSUE NUMBER 165

TITLE: SPRING-ACTUATED SAFETY AND RELIEF VALVE RELIABILITY

TYPE: GSI

PRIORITY: H

RESOLUTION DATE: \_\_\_

IDENTIFICATION DATE: 10/920 TASK MANAGER: C. HRABAL

PRIORITIZATION DATE: 11/93C

OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE

STATUS:

TAC NUMBERS

WORK AUTHORIZATION: NOVEMBER 26, 1993, MEMORANDUM FROM E. BECKJORD TO W. MINNERS

FIR

CONTRACTOR

CONTRACT TITLE

TO BE DETE

TO BE DETERMINED

#### WORK SCOPE

1. SELECT OR LOAD PRA'S FOR ANALYSIS IN SARA VERSIONS 4.0 OR 5.0 DETERMINE WHAT SYSTEMS HAVE SPRING-ACTUATED RELIEF VALVES AND OTHER IMPORTANT INFORMATION BY REVIEWING P&IDS FROM THE SELECTED PRAS 3 PERFORM ANALYSIS TO DETERMINE THE EXTENT OF VALVE FAILURE REQUIRED TO FAIL THE SYSTEM IN WHICH THEY OPERATE.

4 REVIEW LERS TO MORE ACCURATELY DETERMINE THE FAILURE PROBABILITY FOR SPRING-ACTUATED RELIEF VALVES

5. CALCULATE THE CHANGE IN CORE DAMAGE FREQUENCY FROM INCLUDING RELIEF VALVES IN THE PRAS.

6. PERFORM COST/BENEFIT ANALYSES TO DETERMINE THE BEST FIX FOR THE PROBLEM AND WHICH VALVES SHOULD BE TESTED. PREPARE REGULATORY ANALYSIS RESOLVE GSI-165 WITH EITHER THE IMPLEMENTATION OF THE REST FIX OR A CLOSEOUT MEMO IF THE COST/BENEFIT IS NEGLIGIBLE.

## STATUS

APPROVAL OF FINAL TAP, WAS PROVIDED TO R. EMRIT ON

INITIAL INPUT FOR GIMCS, INCLUDING MILESTONES THROUGH JANUARY 5. 1994. DRAFT TAP SUBMITTED TO C. SERPAN (EIB APPROVAL OF FINAL TAP, WAS PROVIDED TO R. EMRIT ON CHIEFI ON MARCH 29, 1994.

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

ASME OM CODE :

\*\*\* NONE \*\*\*

MILESTONES GSI 165 ASSIGNED TO RES/DSIR/EIB ORIGINAL DATE ........ 11/93

CURRENT DATE --------

ACTUAL DATE --------11/93

PAGE: 39

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER 165

TITLE: SPRING-ACTUATED SAFETY AND RELIEF VALVE RELIABILITY

MILESTONES	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
DRAFT TAP TO DSIR DEPUTY DIRECTOR	04/94	04/94	
DRAFT TAP APPROVED BY DSIR DIRECTOR AND FORWARDED TO OTHER RES DIVISION DIRECTORS, AEQD, AND NRR FOR COMMENT	05/94	06/94	
INCORPORATE COMMENTS IN TAP	08/94	08/94	
FINAL TAP APPROVED BY DSIR DIRECTOR	11/94	11/94	
BALANCE OF MILESTONES TBD			100

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 40

ISSUE NUMBER 166

TITLE: ADEQUACY OF FATIGUE LIFE OF METAL COMPONENTS PRIORITIZATION DATE: 06/93C

TYPE: GSI

PRIORITY:

IDENTIFICATION DATE: 04/93C

STATUS: NR

TASK MANAGER: J. FAIR

OFFICE/DIVISION/BRANCH: NRR /DE /EMEB ACTION LEVEL: ACTIVE

RESOLUTION DATE:

TAC NUMBERS M86344

WORK AUTHORIZATION: APRIL 1, 1993, MEMORANDUM FROM T. MURLEY TO J. SNIEZEK

FIN 12081

CONTRACTOR INEL

CONTRACT TITLE

TECHNICAL ASSISTANCE IN SUPPORT OF THE FATIGUE ACTION PLAN

WORK SCOPE

EVALUATE FATIGUE ADEQUACY OF OPERATING PLANT COMPONENTS.

STATUS

SEPTEMBER 17, 1993. STAFF MET WITH ASME PRESSURE VESSEL

RISK ASSESSMENT

ACTION PLAN APPROVED. NUMARC AND NRC HELD PUBLIC MEETING ON RESEARCH COUNCIL (PVRC) ON OCTOBER 12, 1993. CONTRACT

IN PLACE. DATA ANLYSIS IN PROGRESS.

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

NONE

NONE .

CURRENT ACTUAL ORIGINAL DATE MILESTONES DATE -----09/93 09/93 MEET WITH INDUSTRY (PERIODIC) 12/93 12/93 PROGRAMMATIC REVIEW 04/94 04/94 INFORM COMMISSION (PERIODIC, 6 MONTHS) 05/94 03/94

PAGE: 41

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 166

TITLE: ADEQUACY OF FATIGUE LIFE OF METAL COMPONENTS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
TECHNICAL ISSUES	05/94	06/94	
DATA COLLECTION AND ANALYSIS	05/94	07/94	1 1 1 1
OPTIONS FOR RESOLUTION	06/94	08/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 42

ISSUE NUMBER: 168

TITLE: ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

IDENTIFICATION DATE: 04/93C

PRIORITIZATION DATE: 06/93C

TYPE: GSI

PRIORITY

TASK MANAGER G. HUBBARD

OFFICE/DIVISION/BRANCH: NRR / /SPLB

STATUS: NR

TAC NUMBERS M85648

ACTION LEVEL: ACTIVE

RESOLUTION DATE

WORK AUTHORIZATION: APRIL 1, 1993, MEMORANDUM FROM T. MURLEY TO J. SNIEZEK

FIN

CONTRACTOR

CONTRACT TITLE

A2336 ANI F2097

RISK IMPACT OF EQ EQ FOR OPERATING REACTORS SCIENTECH

WORK SCOPE

1 TO GATHER, REVIEW, AND EVALUATE OPERATING EXPERIENCE DATA AND EQUIPMENT REPLACEMENT SCHEDULES FOR NUCLEAR POWER PLANTS TO PROVIDE INSIGHT AS TO WHERE NRC SHOULD FOCUS ITS

RESOURCES IN THE PERFORMANCE OF EQ AGING REVIEWS 2. TO PERFORM A DETAILED ASSESSMENT OF THE RISK ASSOCIATED WITH EQ ISSUES.

## STATUS

THE PROGRAMMATIC REVIEW IS CONTINUING. SPLB HAS PERFORMED FOUR SITE VISITS. A CONTRACTOR FOR SPLB HAS REVIEWED OPERATING EXPERIENCE AND PROVIDED A DRAFT REPORT ON EQ-RELATED EVENTS ON 12/07/93. A CONTRACTOR FOR SPSB PROVIDED A DRAFT REPORT IN DEC. 1993 STATING THAT THERE IS

NO RELIABILITY DATA FOR EQ. SPLB AND RES WILL DEVELOP AVAILABLE EQ INFORMATION INTO A DATABASE WHICH COULD PROVIDE SOME RELIABILITY INSIGHT INTO EQ EQUIPMENT. RES/DE HELD A WORKSHOP ON 11/15-16/93 TO GATHER INFORMATION ON PREAGING, EQ TESTING, OPERATING EXPERIENCE, AND CONDITION MONITORING.

## AFFECTED DOCUMENTS

ISSUED IN 92-81 AND 93-33.

PROBLEM/RESOLUTION

NONE

MILESTONES

INFORM COMMISSION

ORIGINAL DATE 05/93

CURRENT DATE

ACTUAL DATE

05/93

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 43

ISSUE NUMBER: 168

TITLE: ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

MILESTONES	ORIGINAL DATE	CURRENT DATE	ACTUAL DATE
MEET WITH INDUSTRY			
PROGRAMMATIC REVIEW	06/94	08/94	
RISK ASSESSMENT	10/94	10/94	AR T
DATA COLLECTION AND ANALYSIS	08/94	12/94	**
TECHNICAL ISSUES	10/94		
OPTIONS FOR RESOLUTION	**		
IMPLEMENTATION			2.00

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

TITLE: CRITERIA FOR SAFETY-RELATED OPERATOR ACTIONS

PAGE: 44

ISSUE NUMBER: 8-17

IDENTIFICATION DATE: 06/78C

TASK MANAGER: N. GROSSMAN

PRIORITIZATION DATE: 11/83C

TYPE: GSI

PRIORITY: M

OFFICE/DIVISION/BRANCH RES /DSR /HFB

ACTION LEVEL: ACTIVE

STATUS

RESOLUTION DATE: 06/95

TAC NUMBERS

WORK AUTHORIZATION NRR FY-84 OPERATING PLAN (APPENDIX G)

FIN A0465 CONTRACTOR

LLNL

CONTRACT TITLE

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. LINL BEGAN WORK TO MANAGE THE TECHNICAL EFFORT INVOLVING EPRI AND A SUBCONTRACTOR TO EPRI IN MARCH

## AFFECTED DOCUMENTS

TO BE PROVIDED LATER

## PROBLEM/RESOLUTION

SCHEDULE HAS SLIPPED DUE TO SLIPPAGE IN ANS SCHEDULE FOR APPROVAL OF STANDARD ANSI/ANS 58 8. ALSO, SINCE NRC ENDORSEMENT WILL BE IN THE FORM OF A REGULATORY GUIDE TIME IS NEEDED TO GO THROUGH THE REGULATORY GUIDE APPROVAL

PAGE: 45

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER 8-17 TITLE: CRITERIA FOR SAFETY-RELATED OPERATOR ACTIONS

ORIGINAL DATE	CURRENT	ACTUAL DATE
07/98		06/89
08/87		06/89
04/92		04/92
08/92		08/92
10/92		03/93
03/94		03/94
08/93	05/94	
04/93	09/94	
04/93	09/94	
12/93	10/94	
05/94	02/95	
07/94	04/95	
07/94	05/95	
09/94	06/95	
09/94	06/95	-
	DATE 07/98 08/87 04/92 08/92 10/92 03/94 08/93 04/93 04/93 12/93 05/94 07/94 07/94 09/94	DATE DATE  07/98 08/87 04/92 08/92 10/92 03/94 08/93 05/94 04/93 09/94 04/93 09/94 12/93 10/94  05/94 02/95 07/94 04/95 07/94 05/95 09/94 06/95

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE 46

TITLE: IMPROVE RELIABILITY OF TARGET ROCK SAFETY-RELIEF VALVES ISSUE NUMBER 8-55

PRIORITY M IDENTIFICATION DATE: 06/78C PRIORITIZATION DATE: 11/83C TYPE: GSI

OFFICE/DIVISION/BRANCH: RES /DSIR/EIB ACTION LEVEL: ACTIVE STATUS: TASK MANAGER F. CHERNY

RESOLUTION DATE: 08/97 TAC NUMBERS

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

WHILE INITIAL PERFORMANCE WITH THE PH 13-8 MO REPLACE-MENT DISCS INDICATED AN IMPROVEMENT, ADDITIONAL PERFORMANCE DATA MADE IT APPARENT THE NEW DISCS ARE NOT PROVIDING THE IMPROVED PERFORMANCE THAT WAS ORIGINALLY EXPECTED. THE BWROG CONCLUDED THE PH 13-8 MO REPLACEMENT DISCS ARE NOT A VIABLE SOLUTION FOR ELIMINATING SETPOINT DRIFT AND RECOM-MENDED THEY NO LONGER BE INSTALLED TO RESOLVE THIS PROBLEM.
THE BWROG IS CURRENTLY WORKING ON THE DESIGN OF CATALYSTS
[077.0N 1] FOR THE TARGET ROCK 2-STAGE SRV'S. INSTALLATION
OF REDESIGNED SRV'S WITH CATALYSTS IS SCHEDULED FOR THE FALL OF 1993. THEY ARE ALSO WORKING ON A PARALLEL CONTINGENCY OPTION 2; I.E., THE USE OF PRESSURE SWITCHES SIMILAR TO THOSE USED ON BWR/6 PLANTS. THE BWROG HAS MODIFIED THE SCHEDULE WITH THE CATALYST DESIGN FOR THE TARGET ROCK 2-STAGE SRV'S. THE STAFF MET WITH THE BWROG ON AUGUST 11, 1992, AND DISCUSSED DETAILS OF THE CATALYST DESIGN (OPTION 1) AND ALSO THE PROGRESS ON THE PARALLEL CONTINGENCY AN INDEPENDENT DESIGN REVIEW HAS BEEN COMPLETED IN THE THIRD QUARTER OF FY '92 FOR OPTION 1. LABORATORY TESTING IS COMPLETE AND DEMONSTRATES THAT THE ALLOY COATING

IS VERY EFFECTIVE IN REDUCING OXYGEN CONCENTRATION AT THE VALVE DISK/SEAT INTERFACE. PILOT VALVE CYCLING TESTS THAT DEMONSTRATE CATALYST ADHERENCE TO THE TREATED SURFACES HAVE ALSO BEEN SUCCESSFULLY COMPLETED. A DESIGN SPECIFICATION FOR THE ALLOY COATING AND THE TREATED SURFACES HAS BEEN SUBMITTED TO THE BWROG FOR APPROVAL PILOT VALVE CONTACT SURFACES ARE A STELLITE TO STELLITE MATERIAL WITH THE PLATINUM-STELLITE ALLOY COATING APPLIED TO THE PILOT VALVE DISK AND THE STABILIZER DISK. HOWEVER AT THE FEBRUARY 1993 BWROG MEETING, IT WAS DECIDED TO APPLY THE ALLOY COATING TO THE PILOT VALVE DISK DNLY AND NOT TO THE STABILIZER DISK. IT WAS ALSO DECIDED TO GIVE EQUAL STATUS TO BOTH THE CATALYST OPTION AND THE PRESSURE SWITCH OPTION. THIS IS IN APPARENT RECOGNITION OF THE FACT THAT SOME OF THE BWROG MAY BE LOSING INTEREST IN THE CATALYST OPTION DUE TO THE LONG LEAD TIME TO OBTAIN THE CATALYTIC COATED VALVE PARTS. A LICENSING TOPICAL REPORT ON THE PRESSURE SWITCH OPTION AND A DETAILED LETTER STATUS FROM THE BWROG HAD BEEN SCHEDULED FOR SUBMITTAL TO THE NRC IN APRIL 1993

PAGE: 47

GEMERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER B-55

TITLE: IMPROVE RELIABILITY OF TARGET ROCK SAFETY-RELIEF VALVES

#### STATUS

SINCE MOST OF THE NRC STAFF EFFORT RELATED TO THE BALANCE OF THE GENERIC RESOLUTION OF THIS GENERIC ISSUE IS EXPECTED TO BE UNDERTAKEN WITHIN NRR, AND SINCE ANY PLANT MODIFICATIONS RESULTING FROM THE RESOLUTION OF THIS ISSUE ARE EXPECTED TO BE EITHER VOLUNTARY OR JUSTIFIED ON A "COMPLIANCE" BASIS, RES HAS FORMALLY REQUESTED THAT THE ISSUE BE TRANSFERRED TO NRR FOR THE BALANCE OF THE GENERIC RESOLUTION PERIOD AND SUBSEQUENT PLANT SPECIFIC IMPLEMENTATION A TRANSFER MEMORANDUM WAS TRANSMITTED TO NRR ON AUGUST 3, 1993

IN A MEMORANDUM DATED OCTOBER 13, 1993, NRR DECLINED TO ACCEPT THE TRANSFER OF RESPONSIBILITY FOR MANAGING THE BALANCE OF THE RESOLUTION OF THE GSI. RES WILL CONTINUE TO GSI MANAGEMENT, BUT ONLY AT A MINIMAL LEVEL.

DUE TO RESOURCE CONSTRAINTS. THE EFFORT WILL CONSIST OF MAINTAINING GIMCS AND BEING THE FORMAL BWROG CONTACT FOR

BY TELEPHONE ON JANUARY 10, 1994, THE BWROG ADVISED THAT THE PRESSURE SWITCH TOPICAL REPORT WOULD BE SUBMITTED TO NRC IN FEBRUARY OF 1994.

ON APRIL 4, 1994, A DECISION WAS MADE BY THE RES DIRECTOR TO APPEAL THE NRR DECISION REGARDING TRANSFER OF 8-55 TO NRR. A MEMORANDUM FROM THE RES DIRECTOR TO THE NRR DIRECTOR IS BEING PREPARED. BY MEMO ON APRIL 6, 1994. THE RES TASK MANAGER WAS ADVISED BY BWROG THAT LICENSEES HAD BEGUN INSTALLATION OF CATALYST-MODIFIED DISKS AND THAT THE

PRESSURE SWITCH REPORT WOULD BE MAILED TO THE NRC ON APRIL 29, 1994.

AFFECTED DOCUMENTS

NONE

NONE .

PROBLEM/RESOLUTION

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
MEETING WITH BWR OWNERS SETPOINT DRIFT COMMITTEE	12/83		11/83
BWR OWNERS REPORT SUPMITTED	07/84	**	06/84
BOSTON EDISON REPORT SUBMITTED			08/84
COMPLETION OF NRR EVALUATION OF OWNERS GROUP AND BOSTON EDISGN REPORTS	10/84		10/84
COMMUNICATION TO OG RE: NRC COMMENTS/CONCERNS			23/85
OG PRESENTATION TO THE STAFF	10/85		10/85

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM PAGE: 48

ISSUE NUMBER B-55

TITLE: IMPROVE RELIABILITY OF TARGET ROCK SAFETY-RELIEF VALVES

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
STAFF RECEIVES OWNERS' PROGRAM FOR ELIMINATING SET POINT DRIFT	10/85	***	10/85
OWNERS BEGIN TO INSTALL NEW PILCT 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	W-4	11/88
BWROG APPROVAL FOR FUNDING CATALYST/PRESSURE SWITCH PROGRAM	06/90	**	06/90
BWROG SELECT/DESIGN CATALYST	03/91		02/91
NRC STAFF ISSUE STATUS REPORT ON INDUSTRY PROGRESS	06/91		08/91
BWROG COMPLETES FINALIZING DESIGN AND LABORATORY TESTING	04/92		07/92
NRC STAFF ISSUE STATUS REPORT ON INDUSTRY PROGRESS	03/92	-	08/92
REASSESS ISSUE	03/93		05/93
REASSIGN TO NAR	08/93		08/93
NRR RESPONSE TO REASSIGNMENT	10/93	**	10/93
BWROG SUBMIT TOPICAL REPORT TO NRC DESCRIBING PRESSURE SWITCH OPTION	12/91	05/94	*
OWNERS BEGIN TO INSTALL CATALYSTS TO TEST IN PLANTS FOR FIRST FUEL CYCLE	06/94	04/94	-
NRR ISSUE APPROVAL FOR PRESSURE SWITCH OPTION	02/95	02/95	**
ISSUE CLOSEOUT MEMORANDUM	08/97	08/97	+-

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

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ISSUE NUMBER B-61

TITLE: ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS

IDENTIFICATION DATE: 06/78C

PRIORITIZATION DATE 11/83C

TYPE: GSI

PRIORITY M

TASK MANAGER A BUSLIK

OFFICE/DIVISION/BRANCH: RES /DSR /PRAB ACTION LEVEL: ACTIVE

STATUS:

TAC NUMBERS

RESOLUTION DATE: 06/95

WORK AUTHORIZATION: NRR FY-34 OPERATING PLAN (APPENDIX G)

FIN

CONTRACTOR

CONTRACT TITLE

NONE

NONE

NONE

### WORK SCOPE

IN GENERAL PLANTS WILL BE CLASSIFIED SUCH THAT
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 CUTAGES MUST BE INCLUDED. DETAILS OF THE WORK SCOPE ARE CONTAINED IN THE DRAFT ACTION PLAN BECAUSE CUMULATIVE OUTAGE TIMES ON COMPONENTS OTHER THAN ECCS COMPONENTS APPEAR IMPORTANT, THE WORK SCOPE HAS BEEN EXPANDED TO INCLUDE ALL SAFETY-RELATED COMPONENTS.

STATHS

TASK I HAS BEEN COMPLETED.

#### AFFECTED DOCUMENTS

TECHNICAL SPECIFICATION CHANGES ARE POSSIBLE. REVISED INSPECTION GUIDANCE FOR VOLUNTARY ENTRY INTO LCO'S

#### PROBLEM/RESOLUTION

THE MAJOR PROBLEM ASSOCIATED WITH THE RESOLUTION OF 8-61 IS AN ANALYSIS OF THE COSTS AND BENEFITS OF THE IMPOSITION OF A CUMULATIVE OUTAGE REQUIREMENT. BOTH THE FRENCH AND GERMANS USE AN APPROACH TO CUMULATIVE OUTAGE REQUIREMENT APPLYING THE CUMULATIVE OUTAGE REQUIREMENT ONLY TO SCHEDULED A STUDY OF THE NEED FOR CONTROL OF CUMULATIVE OUTAGE IS BEING PERFORMED IN-HOUSE. THE WORK TAKES INTO ACCOUNT THE MAINTENANCE RULE, AND THE NUMARC GUIDANCE FOR THE IMPLEMENTATION OF THE MAINTENANCE RULE, AS WELL AS CURRENT INSPECTION GUIDANCE ON VOLUNTARY ENTRY INTO LIMITED CONDITIONS OF OPERATION ACTION STATEMENTS TO PERFORM PREVENTIVE MAINTENANCE. AN INITIAL RECOMMENDATION FOR STAFF

PAGE: 50

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER | B-61

TITLE: ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS

AFFECTED DOCUMENTS

## PROBLEM/RESOLUTION

COMMENTS WAS COMPLETED IN SEPTEMBER 1992; THIS INCLUDED A PROPOSED DRAFT TECHNICAL RESOLUTION. COMMENTS WERE RECEIVED ON THIS PROPOSED DTR FROM IMMEDIATE MANAGEMENT IN AUG 1993. THE DRAFT TECHNICAL RESOLUTION IS BEING REWRITTEN TO INCLUDE MORE SENSITIVITY STUDIES, TO IMPROVE THE UNCERTAINTY ANALYSIS, AND TO PROVIDE, IF POSSIBLE, A BETTER BASIS FOR THE BENEFIT OF THE MAINTENANCE RULE AND INSPECTION GUIDANCE. THE CURRENT VERSION OF THE DRAFT TECHNICAL RESOLUTION WOULD MODIFY THE INSPECTION GUIDANCE ON VOLUNTARY ENERY INTO LCOS, BUT NOT IMPOSE A CUMULATIVE OUTAGE REQUIREMENT ON SCHEDULED MAINTENANCE AS IS DONE IN FRANCE. IT IS CLEAR THAT A CUMULATIVE OUTAGE REQUIREMENT ON MINISCHEDULED MAINTENANCE WILL NOT BE IMPOSED.

MILESTONES	ORIGINAL DATE	CURRENT	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	**	02/92
DEVELOP AN INITIAL RECOMMENDATION FOR STAFF COMMENTS	08/87		09/92
APPLY METHODOLOGY TO A SELECTION OF PLANTS	08/85		09/92
PREPARE DTR	04/86	04/94	
PREPARE CRGR PACKAGE	06/86	05/94	-
REVIEW OF CRGR PACKAGE BY DIVISION DIRECTORS	07/86	06/94	

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# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER: 8-61 TITLE: ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
RES DIRECTOR REVIEW COMPLETE/ PACKAGE TO CRGR	08/86	07/94	
CRGR REVIEW AND EDO APPROVAL COMPLETED	09/86	08/94	
ISSUANCE OF FRN FOR PUBLIC COMMENT	11/86	09/94	**
SIXTY-DAY COMMENT PERIOD ENDS	01/87	11/94	
DIVISION REVIEW OF PUBLIC COMMENTS COMPLETED, AND FINAL CRGR PACKAGE COMPLETED	02/87	01/95	**
RES REVIEW OF CRGR PACKAGE COMPLETED (DIVISION REVIEW AND RES DIRECTOR REVIEW)	04/87	03/95	
ACRS REVIEW	09/93	04/95	
CRGR REVIEW AND EDO APPROVAL COMPLETED	05/87	05/95	_1
CLOSE OUT ISSUE	09/93	05/95	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 52

ISSUE NUMBER B-64

TITLE: DECOMMISSIONING OF REACTORS

IDENTIFICATION DATE: 06/78C

PRIORITIZATION DATE: 11/83C

TYPE: GSI

PRIORITY

TASK MANAGER: L. BELL

OFFICE/DIVISION/BRANCH: NMSS/LLWM/LLRB ACTION LEVEL: ACTIVE

STATUS: NR

RESOLUTION DATE: 06/94

TAC NUMBERS

WORK AUTHORIZATION: NRR FY-84 OPERATING PLAN, (APPENDIX G).

File

CONTRACTOR \_\_\_\_\_\_

CONTRACT TITLE

B2341

PNL

DECONTAMINATION AND DECOMMISSIONING REVIEW

WORK SCOPE

DEVELOP A GENERAL DECOMMISSIONG 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.

STATUS

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 IS PREPARING THE SRP. THE SRP HAS BEEN SENT FOR OFFICE CONCURRENCE PRIOR TO SUBMITTAL TO CRGR. MEMO TO BE ISSUED TO TRACK SRP ISSUANCE IN SRP TRACKING SYSTEM.

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

NONE .

(1) 10 CFR PARTS 50 AND 51 AMENDMENTS.

REGULATORY GUIDE 1.86 REVISION

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.

MILESTONES

ORIGINAL DATE ------08/84

CURRENT DATE

ACTUAL DATE --------

CRGR REVIEW COMPLETED ON DECOMMISSIONING RULE (291

08/84

PAGE: 53

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER B-64

TITLE: DECOMMISSIONING OF REACTORS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
EDO APPROVAL OF DECOMMISSIONING - SECY - 34-354	09/84		09/84
COMMISION APPROVAL OF SECY-84-354	12/84	2.4	12/84
ISSUANCE OF DRAFT RULE CHANGE FOR PUBLIC COMMENT	02/85	~~	02/85
FORMAT AND CONTENT FOR DECOMMISSIONING	02/84	100	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 CRCR (53)	08/86	**	08/87
FTR TO EDO FOR TRANSMITTAL TO COMMISSION	10/86	**	12/87
FRN OF FINAL RULE	01/87	**	06/88
ISSUE MEMO TO TRANSFER TO SRP TRACKING SYSTEM	10/93	06/94	**

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

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ISSUE NUMBER HF 4 4

TITLE: GUIDELINES FOR UPGRADING OTHER PROCEDURES

IDENTIFICATION DATE: 08/83C

PRIORITIZATION DATE: 10/840

TYPE: GSI

PRIORITY H

TASK MANAGER: J. WACHTEL

OFFICE/DIVISION/BRANCH: RES /DSR /HFB ACTION LEVEL: ACTIVE

STATUS:

TAC NUMBERS

RESOLUTION DATE: 07/93C

WORK AUTHORIZATION: MEMO FOR H. THOMPSON FROM H. DENTON DATED 10/1/84.

"HUMAN FACTORS PROGRAM PLAN"

FIN	CONTRACTOR	CONTRACT TITLE
B2360 B2935 B2966 12005 L1827	PNL PNL PNL PNL PNL	DEVELOP GUIDANCE AND REGULATORY ACTION FOR OPS & AOPS VALVE IMPACT ASSESSMENT OF PLANT OPERATING PROCEDURES DEVELOP GUIDANCE & REGULATORY ACTION FOR OPS & AOPS DEVELOP GUIDANCE & REGULATORY ACTION FOR OPS & AOPS GUIDANCE FOR REVIEW OF PROGRAMS TO UPGRADE PROCEDURE AT NUCLEAR POWER PLANTS

#### 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 82360/PNL AND FIN B2986 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 NER 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 NUREG/CR-5458 WAS PUBLISHED IN DECEMBER 1989. AGREEMENT REACHED WITH NRR TO DEVELOP A PROCEDURES UPGRADE "GOOD PRACTICES" GUIDE. WORK TO BE INITIATED FEBRUARY 1991. STATEMENT OF WORK FOR "GOOD PRACTICES" PROJECT ISSUED MAY 1991. EFFORT EXPANDED BEYOND NORMAL AND ABNORMAL PROCEDURES, PER NRR, TO INCLUDE PRO-CEDURES DURING NONPOWER OPERATIONS. AT A MEETING WITH J. SNIEZEK IN NOVEMBER 1991, THE FOCUS OF THIS PROJECT WAS CHANGED TO EMPHASIZE NONPOWER OPERATIONS AND MINIMIZE THE ATTENTION PAID TO NORMAL AND ABNORMAL PROCEDURES

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 55

ISSUE NUMBER HF 4.4

TITLE: GUIDELINES FOR UPGRADING OTHER PROCEDURES

AFFECTED DOCUMENTS

LITERATURE REVIEW DOCUMENTING PROCEDURES PRACTICES AT NUCLEAR POWER PLANTS.

## PROBLEM/RESOLUTION

ALTHOUGH FINAL NUREG/CR WAS PUBLISHED IN DECEMBER 1989, REQUESTS FROM OTHER OFFICES RESULTED IN MAINTAINING THIS ISSUE OPEN PENDING A RESOLUTION OF WHETHER ADDITIONAL EFFORT IS NECESSARY UNDER THIS ISSUE. AS A RESULT OF NOVEMBER 1991 MEETING WITH J. SNIEZEK, THE CONTRACT WAS REVISED TO ADDRESS ONLY THOSE PROCEDURES RELATED TO SHUTDOWN AND LOW POWER OPERATIONS. A RECENT NRR USER NEED LETTER (3/8/93 MEMO FROM T. MURLEY) HAS WITHDRAWN THE NEED FOR ANY OF THE REMAINING WORK AND ACCORDINGLY THIS ISSUE WAS CLOSED OUT BASED UPON THE WORK DONE TO DATE.

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
PUBLISH FINAL REPORT ON OPERATING PROCEDURES PROJECT AS NUREG/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
PREPARE CLOSEOUT MEMO	04/93		04/93
CLOSE OUT ISSUE	06/89	77	07/93
CLOSE OUT CONTRACT BY DOCUMENTING LITERATURE SEARCH ON PROCEDURES FOR LOW POWER AND SHUTDOWN OPERATIONS AT NUCLEAR POWER PLANTS	08/92	06/94	

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 56

ISSUE NUMBER HF 5.1

TITLE: LOCAL CONTROL STATIONS

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: 3B

TAC NUMBERS

WORK AUTHORIZATION: MEMO TO H. THOMPSON FROM H. DENTON DATED 10/1/84.

RESOLUTION DATE: 06/93C

FIN

CONTRACTOR

CONTRACT TITLE

A3972

BNL

LOCAL CONTROL STATIONS

## WORK SCOPE

THE FIRST GOAL OF THIS WORK IS TO DETERMINE THE RISK TO PUBLIC HEALTH AND SAFETY RESULTING FROM HUMAN ERROR AT LOCAL CONTROL STATIONS WITHIN A NUCLEAR POWER PLANT AND THE COST OF POTENTIAL MODIFICATIONS. THE METHOD TO DETERMINE RISK IS THROUGH THE USE OF PROBABILISTIC RISK ANALYSIS (PRA).

FOR PLANNING PURPOSES, WE ASSUME THE RESULTS OF THE VALUE/IMPACT ANALYSIS WILL REQUIRE ADDITIONAL WORK TO

RESOLVE THE LOCAL CONTROL STATIONS ISSUE. THE OBJECTIVE OF THIS WORK IS TO DEVELOP A REGULATORY GUIDE ON LOCAL CONTROL STATIONS AND REVIEW GUIDELINES FOR THE EVALUATION OF LOCAL CONTROL STATIONS. AS A RESULT OF SENIOR MANAGEMENT REVIEW OF THIS PROJECT ON JUNE 2, 1992, WORK SCOPE WAS REDUCED TO ELIMINATE DEVELOPMENT OF REGULATORY GUIDANCE AND REVIEW GUIDELINES

#### STATUS

BY LETTER DATED DECEMBER 29, 1987, THE SOW WAS FORWARDED TO BNL. BY LETTER DATED MARCH 25, 1988 NRC AUTHORIZED BNL TO BEGIN PROGRAM. BNL BEGAN WORK IN MAY, 1988. A DRAFT VALUE/IMPACT REPORT WAS SUBMITTED BY BNL IN

FEBRUARY 1989. A REVISED SOW WAS DEVELOPED AND WORK BEGAN APRIL 1990. WORK TERMINATED (SEE MEMORANDUM FROM E. BECKJORD TO EDO ON JUNE 29, 1993).

PROBLEM/RESOLUTION

### AFFECTED DOCUMENTS

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NUREG/CR-5572, GOOD PRACTICES FOR THE DESIGN OF LOCAL CONTROL STATIONS.

NONE

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## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER HF 5 1 TITLE: LOCAL CONTROL STATIONS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
BEGIN VALUE/IMPACT STUDY OF LOCAL CONTROL STATIONS	02/88	********	05/88
COMPLETE PRELIMINARY VALUE/IMPACT STUDY	07/88		02/89
NRC COMPLETE REVIEW OF STUDY RESULTS	09/88	W.	02/89
COMPLETE PLANT-SPECIFIC VALUE-IMPACT STUDY FOR EXPANDED LCS DEFINITION	09/90		04/91
PREPARE CLOSE OUT MEMO	05/93		05/93
CLOSE OUT MEMO TO EDO	12/92		06/93
CONTRACTOR TO PREPARE FINAL REPORT ON GOOD PRACTICES FOR DESIGN OF LOCAL CONTROL STATIONS	12/92	06/94	

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 58

ISSUE NUMBER HF 5 2

IDENTIFICATION DATE: 08/83C

TASK MANAGER J WACHTEL

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

PRIORITIZATION DATE: 10/84C

TYPE: GSI

OFFICE/DIVISION/BRANCH: RES /DSR /HFB ACTION LEVEL: ACTIVE STATUS: 38

RESOLUTION DATE: 06/930

TAC NUMBERS

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 ATO SYSTEMS

ANNUNCIATORS SAFETY STATUS INDICATION AND APPLICATIONS OF AUTO-

MATION AND ARTIFICIAL INTELLIGENCE.

A MAMAGEMENT 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 INSTRUMENTAION, " FIN BO852.

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.

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 TIC SIMULATOR TO RESOLVE THE ANNUNCIATOR ISSUE. IN EVALUATING ALARM REDUCTION TECHNIQUES, WE ALSO BEAUTION TO THE PERSON OF THE PROPERTY 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 A'NUNCIATOR SYSTEMS. THESE GUIDELINES WILL SERVE AS THE BASIS FOR A NUREG ON ANNUNCIATORS. NRR WILL INCORPORATE RESULTS OF THIS WORK IN THEIR MODIFICATIONS TO THE STANDARD REVIEW PLAN.

## STATUS

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

COMPLETED IN NOVEMBER 1988. ALARM REDUCTION STUDY BEGAN OCTOBER 1990. WORK TERMINATED. (SEE MEMORANDUM FROM E. BECKJORD TO THE EDO ON JUNE 29, 1993.)

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GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

NONE

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

PROBLEM/RESOLUTION AFFECTED DOCUMENTS NONE .

	MILESTONES	ORIGINAL DATE	CURRENT	DATE
8	EGIN VALUE/IMPACT STUDY OF ANNUNCIATORS	02/88		04/88
C	OMPLETE VALUE/IMPACT STUDY	07/88	**	10/88
N	RC COMPLETES REVIEW OF STUDY RESULTS	09/88		11/88
I	SSUE SOW FOR ALARM REDUCTION EVALUATION	11/88		01/89
В	EGIN ALARM REDUCTION STUDY	01/89		03/89
p	REPARE CLOSEOUT PACKAGE	04/93		04/93
C	LOSE OUT MEMO TO EDO	06/93		06/93
C	OMPLETE ALARM REDUCTION STUDY	11/89	06/94	

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 60

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: 09/94

WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN BOR52 CONTRACTOR ------- CONTRACT TITLE

REV. CRIT FOR HUMAN FACTORS ASPECTS OF ADVANCED CONTROLS & INSTRUM

WORK SCOPE

DEALING WITH UPSET DIAGNOSIS AND REMEDIAL ACTION ARE BASED ON DETAILED LOGIC MODELS THAT TRACE THE TIME-DEPENDENT CONSEQUENCES OF COMPONENT FAILURES. THE

THOSE FACETS OF THE DISTURBANCE ANALYSIS SYSTEM (DAS)

DIFFICULTIES IN GENERATING AND VERIFYING THE ACCURACY OF
THE LOGIC MODELS MUST BE OVERCOME BEFORE APPLYING A

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. FINAL REPORT ISSUED: "HUMAN FACTORS ISSUES
ASSOCIATED WITH ADVANCED INSTRUMENTATION AND CONTROLS
TECHNOLOGIES IN NUCLEAR PLANTS," NUREG/CR-5439.
FIN L1530, VERIFICATION AND VALIDATION GUIDELINES FOR
EXPERT SYSTEMS, IS ANOTHER RELEVANT RESEARCH PROJECT. THIS RESEARCH PROJECT ADDRESSES THE DIFFICULTIES IN VERIFYING THE ACCURACY OF THE LOGIC MODELS AND KNOWLEDGE BASE IN SYSTEMS SUCH AS A DISTURBANCE ANALYSIS SYSTEM. FINAL REPORTS FOR THIS PROGRAM ARE ANTICIPATED DURING FY '94 AND A CLOSEOUT MEMO WILL BE PREPARED UPON THEIR PUBLICATION.

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

NONE

NONE

PAGE: 61

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

ISSUE NUMBER I D.5(5) TITLE: DISTURBANCE ANALYSIS SYSTEMS

MILESTONES	ORIGINAL DATE	CURRENT	ACTUAL DATE
FINAL REPORT FROM CONTRACTOR ON RESULTS OF SURVEY ON HUMAN FACTORS OF ADVANCED CONTROLS/ INSTRUMENTATION	06/89		06/90
CLOSE OUT ISSUE	03/91	09/94	

### GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 62

ISSUE NUMBER II.H.2

TITLE: DETAIN DATA ON CONDITIONS INSIDE TMI-2 CONTAINMENT

IDENTIFICATION DATE: 05/80C

PRIORITIZATION DATE: 11/83C

TYPE: GSI

PRIORITY: H

TASK MANAGER - A. RUBIN

OFFICE/DIVISION/BRANCH: RES /DSR /AEB

ACTION LEVEL: ACTIVE

STATUS

TAC NUMBERS

RESOLUTION DATE: 02/940

WORK AUTHORIZATION: TMI ACTION PLAN, NUREG-0660

FIN	CONTRACTOR	CONTRACT TITLE
A2220 A6899 D2072	ANL EG&G MPR	TMI-2 CORE EXAMINATION TMI-2 LOWER HEAD COMPANION SAMPLE EXAM & ANALYSIS TEST SPECIMENS FROM DAMAGED TMI-2 REACTOR BOTTOM HEAD

## WORK SCOPE

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. PRIOR TO CY88, NRC PRIMARILY PROVIDED TECHNICAL EXPERTISE AND HOT-CELL EXAMINA-

TION 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. PRESSURE VESSEL WALL SPECIMENS, INSTRUMENT TUBE PENETRATIONS, GUIDE TUBE SPECIMENS, AND BOTTOM HEAD ONCE MOLTEN DEBRIS SPECIMENS ARE TO BE REMOVED AND ANALYZED.

## STATUS

PRIOR EFFORTS CONCENTRATED ON TMI-2 CORE EXAMINATION

BOTH ONSITE AND OFFSITE.

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 EYAMINATION BUT DOE DECLINED.

NRC INITIATED A COOPERATIVE PROGRAM JANUARY 15, 1988.

EPRI AND 16 OECD-NEA COUNTRIES PARTICIPATED.

THE SAMPLING EFFORT WAS COMPLETED ON MARCH 1, 1990.

FIFTEEN PRESSURE VESSEL WALL SAMPLES, 14 INSTRUMENT TUBE
PENETRATIONS. AND 2 GUIDE TUBE SPECIMENS WERE OBTAINED. TWO

NATIONAL LABORATORIES ARE BEING UTILIZED TO EXAMINE AND ANALYZE THE SPECIMENS.

IN APRIL 1991, THE MANAGEMENT BOARD OF THE JOINT OECD TMT VESSEL INSPECTION PROGRAM VOTED TO EXTEND THE PROGRAM FOR A PERIOD OF 18 MONTHS BEYOND THE ORIGINAL PROGRAM. THE EXTENDED PROGRAM INCLUDES DETAILED TESTING AND EXAMINATION OF ALL THE VESSEL, NOZZLE, AND GUIDE TUBE SAMPLES EXTRACTED FROM TMI-2. A SCOPING ANALYSIS OF POTENTIAL REACTOR VESSEL FAILURE MODES AND MARGIN TO FAILURE WILL BE PERFORMED.

THIS PROJECT WAS COMPLETED IN OCTOBER 1993 WITH THE ISSUANCE OF THE FINAL TMI-2 VESSEL INVESTIGATION PROJECT REPORTS. A PUBLIC MEETING WAS HELD IN BOSTON, MA, FROM OCTOBER 20-22, 1993, TO PRESENT THE RESULTS AND CONCLUSIONS OF THE PROJECT.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

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ISSUE NUMBER: II.H.2

INVESTIGATION PROJECT, OCTOBER 1993.

TITLE: OBTAIN DATA ON CONDITIONS INSIDE TMI-2 CONTAINMENT

AFFECTED DOCUMENTS

PROBLEM/RESOLUTION

1 "REMOVAL OF TEST SPECIMENS FROM THE TMI-2 REACTOR VESSEL BOTTOM HEAD, PROJECT SUMMARY " PHASE 4 STATUS REPORT MPR-1195, MPR ASSOCIATES, INC., OCTOBER 1, 1990. 2. G.E.KORTH, "METALLOGRAPHIC AND HARDNESS EXAMINATIONS OF TMI-2 LOWER PRESSURE VESSEL HEAD SAMPLES, "TMIV(92)EG01.

DECD-NEA-TMI-2 VESSEL INVESTIGATION PROJECT, JANUARY 1992.

3 D W. AKERS, ET AL., "COMPANION SAMPLE EXAMINATIONS,"

TMIV(92)EG10. DECD-NEA-TMI-2 VESSEL INVESTIGATION PROJECT. 4 LA NEIMARK, ET AL. "TMI-2 INSTRUMENT NOZZLE EXAMINATIONS AT ARGONNE NATIONAL LABORATORY," TMIV(93)AL01 OECD-NEA-TMI-2 VESSEL INVESTIGATION PROJECT, FEBRUARY 1993 5 D R DIERCKS AND LA NEIMARK, "RESULTS OF MECHANICAL TESTS AND SUPPLEMENTARY MICROSTRUCTURAL EXAMINATIONS OF THE TMI-2 LOWER HEAD SAMPLES, "TMI(93)AL02, DECD-NEA-TMI-2 VESSEL INVESTIGATION PROJECT, JUNE 1993.

6 LA STICKLER, ET AL, "CALCULATIONS TO ESTIMATE THE MARGIN TO FAILURE IN THE TMI-2 VESSEL," TMIV(93)EG01, DECD-NEA-TMI-2 VESSEL INVESTIGATION PROJECT, OCTOBER 1993.

7 JR WOLF, ET AL, "TMI-2 VESSEL INVESTIGATION PROJECT INTEGRATION REPORT," TMIV(93)EG10, DECD-NEA-TMI-2 VESSEL INVESTIGATION PROJECT INTEGRATION PROJECT OCTOBER 1993.

ORIGINAL DATE	CURRENT	ACTUAL DATE
04/83		10/84
07/83	**	07/84
07/85		05/85
10/85	**	12/85
12/85		02/86
07/86		03/87
	DATE 04/83 07/83 07/85 10/85	DATE DATE  04/83  07/83  07/85  10/85  12/85

## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

PAGE: 64

ISSUE NUMBER II.H.2

TITLE: OBTAIN DATA ON CONDITIONS INSIDE TMI-2 CONTAINMENT

M I L E S T O N E S LOWER HEAD SAMPLE REMOVAL	ORIGINAL DATE	CURRENT	ACTUAL DATE
COMPLETE DEFUELING	C6/87		05/90
SAMPLE EVALUATION AND ANALYSIS REPORT	06/90		10/93
SUMMARY ANALYSIS	12/90		10/93
CLOSEOUT MEMO TO EDO	02/94	+=	02/94

cc: w/enclosure

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