

ENCLOSURE

GENERIC ISSUE MANAGEMENT

CONTROL SYSTEM

FOURTH QUARTER

FY-85 UPDATE

OFFICE OF NUCLEAR REACTOR REGULATION  
SEPTEMBER 1985

8511190055 851009  
PDR MISC  
8511190052 PDR

## TABLE OF CONTENTS

- (a) Generic Issue Management Control System
  - (1) System Description
  - (2) System Abbreviations
- (b) Summary of Generic Issues Schedule Slippage
- (c) Table 1 - Generic Safety Issues Scheduled for Resolution, New Generic Issues and Issues Resolved
- (d) Table 2 - Number of Generic Safety Issues Resolved and Scheduled for Resolution Fourth Quarter FY-85
- (e) Table 3 - Generic Safety Issues Resolved by Fiscal Year
- (f) Table 4 - Generic Safety Issues Scheduled For Resolution by Fiscal Year
- (g) Table 4A - NRR Generic Safety Issues Scheduled for Resolution
- (h) Table 4B - NRR-TMI Generic Safety Issues Scheduled for Resolution
- (i) Table 4C - Non-NRR TMI and Generic Safety Issues Scheduled for Resolution
- (j) Table 4D - Human Factors Program Plan Generic Safety Issues Scheduled for Resolution
- (k) Table 5 - Number of Generic Issues Prioritized in FY-83, FY-84, and FY-85
- (l) Table 6 - Generic Issues Prioritized as of Fourth Quarter FY-85
- (m) Table 7 - Generic Issues to be Prioritized
- (n) Table 8 - Generic Issues to be Reprioritized
- (o) Table 9 - Summary of the Prioritization of all New Generic Issues, Task Action Plan Items, and TMI Action Plan Items
- (p) Work Scope & Schedules for each Approved Generic Issue



## GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

The Generic Issues Management Control System (GIMCS) provides appropriate information necessary to manage safety related and environmental generic issues through technical resolution and completion. For the purpose of this management control system technically resolved is defined as the point where the staff's technical resolution has been issued. Generally, speaking, this occurs when the technical resolution has been incorporated into one or more of the following:

- (a) Commission policy statement/orders
- (b) NRC Regulations
- (c) Standard Review Plan
- (d) Regulatory Guide
- (e) Generic Letter

GIMCS is part of an integrated system of reports and procedures that would manage generic safety issues, TMI-related issues, and proposed new generic issues through the stages of prioritization, technical resolution, development of new criteria, review and approval, public comments, and incorporation into the Standard Review Plan (SRP), as appropriate. NUREG-0933 provides an evaluation for a recommended priority listing based on the potential safety significance and cost of implementation for each issue; NRR Office Letter Number 40 provided procedures and criteria for adding new generic issues to the system; and GIMCS provides proposed scheduling for resolving and completing issues on the prioritized listing. GIMCS will provide information to manage and control issues that are ranked High-priority generic issues, Medium-priority generic issues, issues for which possible resolution has been identified for evaluation, issues for which a technical resolution is available (as documented by memorandum, analysis, NUREG, etc.), and issues designated by the Director of NRR as issues for which resources have been made available for resolution and completion. Issues ranked as either "Low" or "Dropped" are not allocated resources. Therefore, there is no resolution to be tracked by GIMCS.

Some new generic issues prioritized and processed in accordance with NRR Office Letter No. 40 may not have resources allocated for resolution and completion. These issues will be listed in GIMCS as inactive issues. These will generally be Medium priority issues that have no safety deficiency demanding high-priority attention, but there is a potential for safety improvements or reduction in uncertainty of analysis that may be substantial and worthwhile. Efforts for resolution of these issues will be planned, over the next several years, but on a basis that will not interfere with the resolution of High-priority generic issue work or other high priority work. Thus, some (Medium) generic issues will be inactive until such time as resources become available to resolve the various issues. As resource allocations are directed at issue resolution, they will become active. The detailed schedule for resolving and completing the generic issue will be developed and monitored by the management control system.

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

1. Item No. - Generic Issue Number.
  2. Issue Type - Safety, Environmental or Regulatory Impact  
High, Note 1 or Note 2 (From NUREG-0933),  
Medium.
  3. Action Level - Degree of management attention need to process  
generic issues in accordance with established  
schedules  
L1 - No management action is necessary  
L2 - Division Director action is necessary  
L3 - Director NRR action is necessary
  4. Office/Div/Br - 1st listed has lead responsibility for re-  
solving issue, others listed have input to  
resolution.
  5. Task Manager - Name of assigned individual responsible for  
schedule updating.
  6. Tac Number - Each issue should be assigned a TAC #.
  7. Title - Generic Issue Title.
  8. Work Authorization - Who or what authorized work to be done on  
generic issue.
  9. Contract Title - Provide Contract Title (if contract issued).
  10. Contractor Name/  
FIN No. - Identify Contractor Name and FIN Number (as  
appropriate). If contract is not yet issued,  
indicate whether the contract is included in  
the FIN plan.
  11. Work Scope - Describes briefly the work necessary to tech-  
nically resolve and complete the generic issue.
  12. Affected Documents - Identifies documents that the technical resolution  
will be incorporated into to identify new criteria.
  13. Status - Describes current status of work.
  14. Problem/Resolution - Identifies potential problem areas and describes  
what actions are necessary to resolve them.
  15. Technical Resolution - Identifies detailed schedule of milestone  
dates that are required for completing the  
issue through the issuance of the SRP revision  
or other change that documents requirements.
- Milestones - Selected significant milestones. The "original"  
schedule remains unchanged. Changes in schedule  
are listed under "Current". Actual completion  
are listed under "Actual".

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

## ABBREVIATIONS

- H - High
- N1 - Note 1
- N2 - Note 2
- M - Medium
- D - Drop
- R - Resolved
- NR - Nearly Resolved (Note 1 and Note 2s)
- LI - Licensing Issue (Non-safety)
- RI - Regulatory Impact Issue
- S() - Subsumed in another Issue (issue #)

Action Level - Degree of management attention needed to process generic issues in accordance with established schedules

- L1 - No management action is necessary
- L2 - Division Director action is necessary
- L3 - Director NRR action is necessary
- L4 - Director EDO action is necessary
- L5 - Commission action is necessary

- NRR-OP - Operating Plan
- TAP - TMI Task Action Plan
- TBD - Schedule To Be Developed
- HFPP - Human Factors Program Plan
- ACA - Awaiting Commission Approval for Further Action

- + - Additional Milestones are Required to Complete Resolution of Generic Issue
- \* - New Generic Issues Approved This Quarter
- \*\* - New Generic Issues Approved in previous F-84 Quarter
- \*\*\* - New Generic Issues Approved in FY-83 (from April 1, 1983 through September 30, 1983)

GIMCS FOURTH QUARTER FY-85

SUMMARY OF GENERIC ISSUES SCHEDULE SLIPPAGE

GENERIC ISSUES FOR WHICH SCHEDULE HAS SLIPPED

Generic Issue 29 - Bolting Degradation or Failures in Nuclear Power Plants

NRR/DE/MTEB - Schedule for this issue has slipped 3 months. Division of Engineering's task manager on this issue has been called upon to work on some unanticipated licensing issues that needed to be addressed in a time frame that would not cause a delay in plant startups. Licensing actions such as diesel generator task force, Farley containment tendon anchor block cracking, Fort Saint Vrain reactor internals and Hatch containment downcomer header break has diverted the task manager resources needed to maintain the current schedule for resolving this issue.

Generic Issue B-61 - Allowable ECCS Equipment Outage

NRR/DST/RRAB - Schedule for RES work on this issue has slipped at least 2 months. In order to get a reliable estimate based on informal information received from RES. RRAB will request that RES confirm formally the schedule of milestone dates for providing information needed to resolve the issue and reestablish a firm schedule.

Generic Issue III.D.3.1 - Radiation Protection Plan

NRR/DSI/RAB - Schedule for this issue has slipped 2 months. Since information has not been made available from INPO, the NRC staff must identify, compile, and evaluate data and trends from solely NRC sources, thus duplicating INPO efforts. The schedule slippage is needed to incorporate this effort. In accordance with the NRR Operating Plan, a memorandum for NRR Office Director approval is being processed.

GENERIC ISSUES THAT HAVE A POTENTIAL FOR SCHEDULE SLIPPAGE

None

TABLE 1

Generic Safety Issues Scheduled For Resolution, New Generic  
Issues and Issue Resolved

ISSUE TYPE	FY-83				FY-84				FY-85			
	GIs Start +	New Issues -	GIs Resolved =	End	GIs Start +	New Issues -	GIs Resolved =	End	GIs Start +	New Issues -	GIs Resolved =	End
USI	16	0	2	14	14	0	2	12	12	0	0	12
HIGH	24	2	0	26	25	1	1	26	22*	39	6	55
MEDIUM	31	2	0	33	33	4	3	34	28*	1	10	19
NEARLY RESOLVED	20	3	4	19	19	5	9	15	15	7	7	15
TOTAL	91	7	6	92	92	10	15	87	77	47	23	101

Cumulative Totals

FY-83 through FY-85

ISSUE TYPE	GIs Start +	New Issues =	Totals -	GIs Resolved =	Totals
USI	16	0	16	4	12
HIGH	22*	42	62	7	55
MEDIUM	25*	7	32	13	19
NEARLY RESOLVED	20	15	35	20	15
TOTALS	81	64	145	44	101

\*(See Table 2 Note)

As of Fourth Quarter FY-85

TABLE 2

NUMBER OF GENERIC SAFETY ISSUES RESOLVED  
AND SCHEDULED FOR RESOLUTION  
Fourth Quarter FY-85

ISSUE TYPE	Issues Resolved								Issues Scheduled For Resolution			Cumulative Total
	FY-86 Quarters											
	FY-83	FY-84	FY-85	1st	2nd	3rd	4th	Total	FY-87	FY-88	TBD	
USI	2	2	0	4	2	0	1	7	4	0	1	16
HIGH	0	1	6	5	2	1	6	14	9	4	30	64*
MEDIUM	0	3	10	1	0	0	4	5	5	6	1	30*
NEARLY RESOLVED (NR)	4	9	7	2	1	2	3	8	1	1	5	35
Total	6	15	23	12	5	3	14	34	19	11	37	145

Number of New Generic Issues Approved this Quarter, approved in previous FY Quarter and approved in previous years is shown on Table 1 and 5.

\*One medium generic issue, four high priority, and five medium priority TMI issues have been superseded by nine high priority subtask issues in HF-01 (refer to table 4B for TMI issues superseded and 4D for HF-01 subtask issues).

As of Fourth Quarter FY-85



TABLE 3

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Type of Resolution	Date Approved for Resolution	Date Resolved
<u>GENERIC SAFETY ISSUES RESOLVED FY-83</u>					
A-11	Reactor Vessel Materials Toughness	USI	GL 82-26	01/79	10/82
A-16	Steam Effects on BWR Core Spray Distribution	NR	MPA-D12	NRR-OP FY83	03/29/83
A-39	Determination of Safety Relief Valve (SRV) Pool Dynamic Loads and Temperature Limits for BWR Containment	USI	SRP Revision	01/79	10/82
B-53	Load Break Switch	NR	SRP Revision	NRR-OP FY83	07/28/83
II.E.5.1	(B&W) Design Evaluation	NR	No Requirement	NRR-OP FY83	03/21/83
IV.C.1	Extend Lessons Learned From TMI to Other NRC Programs	NR	No Requirement	NRR-OP FY83	04/15/83
<u>GENERIC SAFETY ISSUES RESOLVED FY-84</u>					
12	BWR Jet Pump Integrity	Medium	No Requirement	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-B65	07/18/83	12/27/83

As of Fourth Quarter FY-85

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Type of Resolution	Date Approved for Resolution	Date Resolved
45	Inoperability of Instruments Due to Extreme Cold Weather.	NR	SRP Revision	09/08/83	03/23/84
50	Reactor Vessel Level Instrumentation in BWRs	NR	MPA-F26	07/28/83	09/06/84
69	Make-Up Nozzle Cracking in B&W Plants	NR	MPA-	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 Requirement	NRR-OP FY83	09/27/84
B-60	Loose Parts Monitoring Systems (LPMS)	NR	GL	NRR-OP FY83	09/25/84
I.A.1.4	Long-Term Upgrading of Operating Personnel	NR	New Rule	NRR-OP FY83	01/01/84
II.A.1	Siting Policy Reformulation	Medium	No Requirement	NRR-OP FY83	09/20/84
II.E.5.2	(B&W) Reactor Transient Response Task Force	NR	NUREG-0667	NRR-OP FY83	09/28/84
III.D.2.5	Offsite Dose Calculation Manual	NR	NUREG/ CR-3332	NRR-OP FY83	01/17/84

As of Fourth Quarter FY-85



Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Type of Resolution	Date Approved for Resolution	Date Resolved
--------------	-------	----------	--------------------	------------------------------	---------------

GENERIC SAFETY ISSUES RESOLVED 1st QUARTER 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 Requirement	NRR-OP FY83	10/10/84
B-54	Ice Condenser Containments	Medium	NUREG/CR-4001	NRR-OP FY83	10/22/84
I.G.2	Scope of Test Program	Medium	No Requirement	NRR-OP FY83	10/05/84

Generic Safety Issues Resolved 2nd Quarter FY-85

I.A.3.4	Licensing of Additional Operations Personnel	Medium	Policy Statement No Requirement	NRR-OP FY83	02/12/85
---------	--	--------	------------------------------------	-------------	----------

Generic Safety Issues Resolved 3rd Quarter FY-85

B-19	Thermal-Hydraulic Stability	NR	GL	01/03/85	05/21/85
I.A.2.2	Training and Qualifications of Operating Personnel	High	Policy Statement No Requirement	NRR-OP FY83	06/24/85
I.A.2.7	Accreditation of Training Institutions	Medium	Policy Statement No Requirement	NRR-OP FY83	06/24/85
III.A.3.4	Nuclear Data Link	Medium	No Requirement	NRR-OP FY83	06/26/85

As of Fourth Quarter FY-85

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Type of Resolution	Date Approved for Resolution	Date Resolved
-----------------	-------	----------	-----------------------	---------------------------------	------------------

GENERIC SAFETY ISSUES RESOLVED 4th QUARTER FY-85

B-58	Passive Mechanical Failures	Medium	No Requirement	NRR-OP FY83	07/09/85
C-11	Assessment of Failure and Reliability of Pumps and Valves	Medium	No Requirement	NRR-OP FY83	07/09/85
I.A.2.6(4)	Operator Workshops	Medium	No Requirement	NRR-OP FY83	09/25/85
II.B.6	Risk Reduction For Operating Reactors at Sites With High Population Densities	High	No Requirement	NRR-OP FY83	09/25/85
II.B.8	Rulemaking Proceedings on Degraded Core Accidents	-	-	-	-
	(a) Hydrogen Rule	High	Rule	NRR-OP FY83	07/19/85
	(b) Severe Accidents	High	Policy Statement	NRR-OP FY83	08/12/85
II.C.1	Interim Reliability Evaluation Program	High	No Requirement	NRR-OP FY83	07/09/85
II.C.2	Continuation of Intrim Reliability Evaluation Program	High	No Requirement	NRR-OP FY83	09/25/85
II.E.2.2	Research on Small Break LOCAs and Anomalous Transients	Medium	No Requirement	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

As of Fourth Quarter FY-85

Table 3 (Continued)

GENERIC SAFETY ISSUES RESOLVED BY FISCAL YEAR

Issue Number	Title	Priority	Type of Resolution	Date Approved for Resolution	Date Resolved
--------------	-------	----------	--------------------	------------------------------	---------------

GENERIC SAFETY ISSUES RESOLVED 4th QUARTER FY-85

III.D.2.3(1)	Develop Procedures to Discriminate Between Sites/Plants	NR	ESRP Revision	NRR-OP FY83	08/28/85
III.D.2.3(2)	Discriminate Between Sites and Plants that Require Consideration of Liquid Pathway Interdiction Techniques	NR	ESRP Revision	NRR-OP FY83	08/28/85
III.D.2.3(3)	Establish Feasible Method of Pathway Interdiction	NR	ESRP Revision	NRR-OP FY83	08/28/85
III.D.2.3(4)	Prepare a Summary Assessment	NR	ESRP Revision	NRR-OP FY83	08/28/85
IV.E.5	Assess Currently Operating Plants	High	No Requirement	NRR-OP FY83	09/25/85

Table 4

Generic Safety Issues Scheduled For Resolution by Fiscal Year

Scheduled For Resolution 1st Qtr. FY-86

14	I.A.3.3	I.F.1
66	I.A.4.2(1)	III.D.3.1
B-55		

Scheduled For Resolution FY-86 (Next three Quarters)

3	75	101	HFPP-4.2
23	77	103	HFPP-4.4
29	79	A-30	I.B.1.1(6)
36	82	B-56	I.B.1.1(7)
65	86	HFPP-3.1	II.J.4.1

Scheduled For Resolution FY-87

48	94	B-6	II.B.5(3)
61	105	C-8	II.E.4.3
70	A-29	HFPP-3.3	II.H.2
93	B-5	HFPP-6.1	

Scheduled For Resolution FY-88 and FY-89

49	68	I.D.5(3)	II.C.4
51	B-61	II.B.5(1)	II.E.6.1
67	I.D.3	II.B.5(2)	

Scheduled For Resolution To Be Determined

83	HFPP-1.1	HFPP-2.3	HFPP-4.5
84	HFPP-1.2	HFPP-3.2	HFPP-5.1
91	HFPP-1.3	HFPP-3.4	HFPP-5.2
99	HFPP-1.4	HFPP-3.5	HFPP-5.3
119	HFPP-2.1	HFPP-4.1	HFPP-5.4
B-64	HFPP-2.2	HFPP-4.3	HFPP-6.2
II.F.5			HFPP-6.3
MSPP-I.1	MSPP-I.3	MSPP-I.5	MSPP-I.8
MSPP-I.2	MSPP-I.4	MSPP-I.6	MSPP-I.9
		MSPP-I.7	MSPP-Phase II

Table 4A  
NRR GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
14	PWR Pipe Cracks	DE/MTEB	NR	NRR-OP	09/85	09/85
23	Reactor Coolant Pump Seal Failures	DST/GIB	H	NRR-OP	07/86	07/86
29	Bolting Degradation or Failures in Nuclear Power Plants	DE/MTEB	H	NRR-OP	05/86	08/86
36	Loss of Service Water (Calvert Cliffs Unit 1)	DSI/ASB	NR	02/15/84	05/86	05/86
48	LCO for Class 1E Vital Instrument Buses in Operating Reactors	DSI/ICSB	NR	10/25/83	02/87	02/87
49	Interlocks and LCOs for Class 1E Tie Breakers	DSI/PSB	M	07/31/84	09/88	09/88
51	Proposed Requirements for Improving Reliability of Open Cycle Service Water Systems	DSI/ASB	M	06/03/83	05/88	05/88
61	SRV Discharge Line Break Inside The Wetwell Airspace of BWR Mark I & Mark II Containments	DSI/CSB	M	11/30/83	03/87	03/87
65	Component Cooling Water System Failure	DST/GIB	H	07/28/83	07/86	07/86
66	Steam Generator Requirements	DL/ORAB	NR	11/16/83	11/85	11/85
67	Steam Generator Staff Actions	DE/MTEB	M	03/28/85	TBD	12/87
68	Loss of AFWS Due to AFW Steam HELB	DSI/ASB	H	04/24/84	10/87	10/87
70	PORV and Block Valve Reliability	DSI/RSB	M	05/14/84	02/87	02/87

As of Fourth Quarter FY-85

Table 4A (continued)

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
77	Flooding of Safety Equipment Compartments by Back-Flow Through Floor Drains	DSI/ASB	H	09/08/83	08/86	08/86
79	Unanalyzed Reactor Vessel Thermal Stress During Natural Convection Cooldown	DE/MEB	M	07/25/83	09/86	09/86
82	Beyond Design Bases Accidents in Spent Fuel Pools	DSI/AEB	M	12/07/83	09/86	09/86
83	Control Room Habitability (CRH)	DSI/MTEB	NR	08/83	TBD	TBD
84	CE PORVs	DSI/RSB	NR	02/27/85	TBD	TBD
86	Long Range Plan for Dealing With Stress Corrosion Cracking in BWR Piping	DE/MTEB	NR	10/01/84	04/86	04/86
91	Main Crankshaft Failure In Transamerica DeLaval	DL/TF	NR	07/08/85	None	TBD
93	Steam Binding of Auxiliary Feedwater Pumps	DSI/ASB	H	10/19/84	06/87	06/87
94	Additional Low-Temperature-Overpressure Protection For Light Water Reactors	DSI/RSB	H	07/23/85	None	10/86
99	RCS/RHR Suction Line Interlocks on PWRs	DSI/RSB	H	08/13/85	None	TBD
101	BWR Water Level Redundancy	DSI/RSB	H	05/06/85	09/86*	09/86*

\*New Generic issue, resolution date may change based on issuance of approved work plan.

As of Fourth Quarter FY-85

Table 4A (continued)

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
103	Design For Probable Maximum Precipitation	DE/HGEB	NR	09/04/85	TBD	07/86
105	Interfacing System LOCA at BWRs	DSI/RSB	H	06/11/85	TBD	07/87
A-3, 4 and 5	Steam Generator Tube Integrity	DL/ORAB	USI	01/79	12/85	12/85
A-17	Systems Interaction	DST/GIB	USI	01/79	08/86	08/86
A-29	Nuclear Power Plant Design for the Reduction of Vulnerability to Industrial Sabotage	DSI/ASB	M	NRR-OP	05/87	05/87
A-30	Adequacy of Safety Related DC Power Supplies	DSI/PSB	H	NRR-OP	01/86	02/86
A-40	Seismic Design Criteria	DE/SGEB	USI	01/79	06/86	TBD
A-43	Containment Emergency Sump Performance	DST/GIB	USI	01/79	09/85	10/85
A-44	Station Blackout	DST/GIB	USI	01/79	04/86	12/86
A-45	Shutdown Decay Heat Removal Requirements	DST/GIB	USI	02/81	03/87	03/87
A-46	Seismic Qualification of Equipment in Operating Plants	DST/GIB	USI	02/81	12/85	02/86
A-47	Safety Implications of Control Systems	DST/GIB	USI	02/81	12/86	12/86
A-48	Hydrogen Control Measures and Effects of Hydrogen Burns on Safety Equipment	DST/GIB	USI	02/81	10/86	12/86

As of Fourth Quarter FY-85



Table 4A (continued)

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
A-49	Pressurized Thermal Shock	DST/GIB	USI	12/81	11/85	03/86
B-5	Ductility of Two Way Slabs and Shells and Buckling Behavior of Steel Containments	DE/SGEB	M	NRR-OP	09/87	09/87
B-6	Loads, Load Combinations, Stress Limits	DE/MEB	H	NRR-OP	09/87	10/86
B-17	Criteria For Safety Related Operator Actions	DHFS/PSRB	M	03/22/82	Being resolved by HF-01 Issue HFPP-4.3	
B-55	Improve Reliability of Target Rock Safety Relief Valves	DE/MEB	M	NRR-OP	12/85	12/85
B-56	Diesel Reliability	DSI/PSB	H	NRR-OP	05/86	05/86
B-58	Passive Mechanical Failures	DE/eqB	M	NRR-OP	Complete	Complete
B-61	Allowable ECCS Equipment Outage Periods	DST/RRAB	M	NRR-OP	09/87	11/87
B-64	Decommissioning of Nuclear Reactors	DE/CMEB	NR	NRR-OP	06/87	TBD
C-8	Main Steam Line Isolation Valve Leakage Control Systems	DSI/ASB	H	NRR-OP	12/86	12/86
C-11	Assessment of Failure and Reliability of Pumps and Valves	DE/MEB	M	NRR-OP	Complete	Complete

As of Fourth Quarter FY-85



Table 4B

## NRR TMI GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
I.A.2.6 (1)	Long-Term Upgrading of Training and Qualifications - Revise Regulatory Guide 1.8	DHFS/LQB	H	Being resolved by HF-01, issue HFPP-1.2		
I.A.2.6 (4)	Operator Workshops	DHFS/LQB	M	NRR-OP	06/85	Complete
I.A.4.2 (1)	Research on Training Simulators	DHFS/OLB	H	NRR-OP	08/85	10/85
I.A.4.2 (4)	Review Simulators for Conformance	DHFS/OLB	H	Being resolved by HF-01, issue HFPP-3.3		
I.B.1.1	Organization and Management of Long Term Improvements	-	-	-	-	-
I.B.1.1 (1)	Prepare Draft Criteria	DHFS/LQB	M	Being resolved by HF-01, issues HFPP-6.1 and 6.3		
I.B.1.1 (2)	Prepare Commission Paper	DHFS/LQB	M	Being resolved by HF-01, issues HFPP-6.1 and 6.3		
I.B.1.1 (3)	Issue Requirements for the Upgrading Management and Technical Resources	DHFS/LQB	M	Being resolved by HF-01, issues HFPP-6.1 and 6.3		
I.B.1.1 (4)	Review Responses to Determine Acceptability	DHFS/LQB	M	Being resolved by HF-01, issues HFPP-6.1 and 6.3		
I.C.9	Long-Term Program Plan for Upgrading of Procedures	DHFS/PSRB	M	Being resolved by HF-01, issues HFPP-4.2 and 4.4 and HF-02		

As of Fourth Quarter FY-85

Table 4B (continued)

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
I.D.3	Safety System Status Monitoring	DHFS/HFEB	M	NRR-OP	12/87	12/87
I.D.4	Control Room Design Standard	DHFS/HFEB	H	Being resolved by HF-01, issue HFPP-5.3		
I.D.5(5)	Disturbance Analysis Systems	DHFS/HFEB	H	Being resolved by HF-01, issue HFPP-5.4		
II.B.6	Risk Reduction for Operating Reactors at Sites with High Population Densities	DST/RRAB	H	NRR-OP	10/85	Complete
II.C.2	Continuation of Interim Reliability Evaluation Program	DST/RRAB	H	-	06/85	Complete
II.E.4.3	(Containment) Integrity Check	DSI/CSB	H	NRR-OP	04/87	10/86
II.E.6.1	Test Adequacy Study	DE/MEB	M	NRR-OP	05/88	05/88
III.D.2.3 (1)	Develop Procedures to Discriminate Between Sites/Plants	DE/EHEB	NR	NRR-OP	09/85	Complete
III.D.2.3 (2)	Discriminate Between Sites and Plants that Require Consideration of Liquid Pathway Interdiction Techniques	DE/EHEB	NR	NRR-OP	09/85	Complete
III.D.2.3 (3)	Establish Feasible Method of Pathway Interdiction	DE/EHEB	NR	NRR-OP	09/85	Complete
III.D.2.3 (4)	Prepare a Summary Assessment	DE/EHEB	NR	NRR-OP	09/85	Complete
III.D.3.1	Radiation Protection Plans	DSI/RAB	H	NRR-OP	09/85	11/85
IV.E.5	Assess Currently Operating Plants	DL/SEPBB	H	NRR-OP	06/85	Complete

As of Fourth Quarter FY-85

Table 4C  
NON-NRR TMI AND GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
3	Set Point Drift in Instrumentation	RES/EEICB	NR	NRR-OP	12/85	01/86
75	Generic Implications of ATWS Events at the Salem Nuclear Plant	IE/QAVT/QAB	NR	10/19/83	02/86	07/86
119	Piping Review Committee Recommendations	RES/	NR	09/10/85	TBD	TBD
I.A.3.3	Requirement for Operation Fitness	RES/DRAO/HFSB	H	NRR-OP	09/85	12/85
I.B.1.1 (6)	Prepare Revisions to Regulatory Guides 1.33 and 1.8	IE/QAVT/QAB	M	NRR-OP	02/86	07/86
I.B.1.1 (7)	Issue Regulatory Guides 1.33 and 1.8	IE/QAVT/QAB	M	NRR-OP	02/86	07/86
I.D.5 (3)	On-Line Reactor Surveillance Systems	RES/DET/EEICB	NR	NRR-OP	09/88	09/88
I.F.1	Expand QA List	IE/QAVT/QAB	H	NRR-OP	08/85	ACA
II.B.5 (1)	Behavior of Severely Damaged Fuel	RES/DAE/FSRB	H	NRR-OP	12/87	12/87
II.B.5 (2)	Behavior of Core Melt	RES/DAE/FSRB	H	NRR-OP	12/87	12/87
II.B.5 (3)	Effect of Hydrogen Burning and Explosions on Containment Structure	RES/DAE/CSRB	M	NRR-OP	07/87	07/87

As of Fourth Quarter FY-85

Table 4C (continued)

## NON-NRR TMI AND GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
II.B.8	Rulemaking Proceeding on Degraded Core Accidents	RES/DRAO/RAMRB	H	NRR-OP	Complete	Complete
II.C.1	Interim Reliability Evaluation Program	RES/DRAO/RRB	H	NRR-OP	Complete	Complete
II.C.4	Reliability Engineering	RES/DRAO/RRB	H	NRR-OP	12/87	12/87
II.E.2.2	Research on Small Break LOCAs and Anomalous Transients	RES/DAE/RSRB	M	NRR-OP	Complete	Complete
II.F.5	Classification of Instrumentation, Control, and Electrical Equipment	RES/DET/EEICB	M	NRR-OP	01/86	TBD
II.H.2	Obtain Technical Data on the Conditions Inside the TMI-2 Containment Structure	RES/DAE/FSRB	H	NRR-OP	12/86	12/86
II.J.4.1	Revise Deficiency Report Requirements	IE/DEPER/EAB	NR	NRR-OP	07/86	08/86
III.A.1.3 (2)	Maintain Supplies of Thyroid-Blocking Agent for Public	IE/DEPER/IRB	NR	NRR-OP	Complete	Complete

As of Fourth Quarter FY-85

Table 4D

HUMAN FACTORS GENERIC SAFETY ISSUES SCHEDULED FOR RESOLUTION

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
<u>HF-01 HUMAN FACTORS PROGRAM PLAN (HFPP)</u>						
<u>HFPP Subtask Numbers</u>						
1.1	Policy Statement on Engineering Expertise on Shift and Evaluate Effectiveness of Policy Statement	DHFS/LQB	H	10/01/84	TBD	TBD
1.2	Revise and Evaluate Changes to Regulatory Guide 1.8	DHFS/LQB	H	10/01/84	08/85	TBD
1.3	Develop a Means to Evaluate Acceptability of NPP Personnel Qualifications Program	DHFS/LQB	H	10/01/84	TBD	TBD
1.4	Review and Evaluate Industry Programs	DHFS/LQB	H	10/01/84	TBD	TBD
2.1	Evaluate Industry Training	DHFS/LQB	H	10/01/84	TBD	TBD
2.2	Evaluate INPO Accreditation Program	DHFS/LQB	H	10/01/84	TBD	TBD
2.3	Revise Standard Review Plan Section 13.2.3	DHFS/LQB	H	10/01/84	TBD	TBD
3.1	Develop Job Knowledge Catalogue	DHFS/OLB	H	10/01/84	TBD	07/86
3.2	Develop Licensing Examinations Handbook	DHFS/OLB	H	10/01/84	TBD	TBD
3.3	Develop Criteria for NPP Simulators	DHFS/OLB	H	10/01/84	02/87	03/87

As of Fourth Quarter FY-85

Table 4D (Continued)

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
<u>HFPP Subtask Numbers (Continued)</u>						
3.4	Training Requirements Package (Revise 10 CFR 55 and RGs 1.149 and 1.8)	DHFS/OLB	H	10/01/84	TBD	TBD
3.5	Develop Computerized Exam System	DHFS/OLB	H	10/01/84	TBD	TBD
4.1	Inspection Module for upgrading procedures	DHFS/PSRB	H	10/01/84	TBD	TBD
4.2	EOP Effectiveness Evaluation	DHFS/PSRB	H	10/01/84	02/86	02/86
4.3	Criteria for Safety-Related Operator Actions (GI #B-17)	DHFS/PSRB	H	10/01/84	TBD	TBD
4.4	Guidelines For Upgrading Other Procedures	DHFS/PSRB	H	10/01/84	12/85	12/85
4.5	Applications of Artificial Intelligence	DHFS/PSRB	H	10/01/84	TBD	TBD
5.1	Local Control Stations	DHFS/OLB	H	10/01/84	TBD	TBD
5.2	Annunciators	DHFS/OLB	H	10/01/84	TBD	TBD
5.3	Evaluate Operational Aid Systems	DHFS/OLB	H	10/01/84	TBD	TBD
5.4	Computers and Computers Displays	DHFS/OLB	H	10/01/84	TBD	TBD
6.1	Development of Regulatory Position on Management and Organization	DHFS/LQB	H	10/01/84	04/86+	04/86+
6.2	Evaluate Criteria For SALP Reviews	DHFS/LQB	H	10/01/84	TBD	TBD

As of Fourth Quarter FY-85

Table 4D (Continued)

Issue Number	Title	Lead Division/ Branch	Priority	Date Approved for Resolution	Resolution Date as of June FY-85	Current Resolution Date
<u>HFPP Subtask Numbers (Continued)</u>						
6.3	Revise Standard Review Plan Section 13.1	DHFS/LQB	H	1001/84	11/86	11/86
<u>HF-02 MAINTENANCE AND SURVEILLANCE PROGRAM PLAN (MSPP)</u>						
<u>MSPP Subtask Numbers (Phase I)</u>						
I.1	Survey Current Maintenance Practices	DHFS/PSRB	H	03/06/85	TBD	TBD
I.2	Maintenance Performance Indicators	DHFS/PSRB	H	03/06/85	TBD	TBD
I.3	Monitor Industry Activities	DHFS/PSRB	H	03/06/85	TBD	TBD
I.4	Participate In Standards Groups	DHFS/PSRB	H	03/06/85	TBD	TBD
I.5	Maintenance and Surveillance Program Integration	DHFS/PSRB	H	03/06/85	TBD	TBD
I.6	Analysis of Japanese/U.S. NPP Maintenance Programs	DHFS/PSRB	H	03/06/85	TBD	TBD
I.7	Maintenance Personnel Qualifications	DHFS/PSRB	H	03/06/85	TBD	TBD
I.8	Human Factors In In-Service Inspections	DHFS/PSRB	H	03/06/85	TBD	TBD
I.9	Human Error in Events Involving Wrong Unit Wrong Train (GI #101)	DHFS/PSRB	H	03/06/85	TBD	TBD
<u>MSPP Subtask Numbers (Phase II)</u>						
II.0	Phase II Tasks To Be Determined After Resolution of Phase I	DHFS/PSRB	H	03/06/85	TBD	TBD

As of Fourth Quarter FY-85



TABLE 5

## NUMBER OF GENERIC ISSUES PRIORITIZED IN FY-83, FY-84 and FY-85

Issue Type	FY-83	FY-84	FY-85 Quarters				Total	Cumulative Total
			1st	2nd	3rd	4th		
Issues Identified To Be Prioritized	56	19	32	14	2	6	54	129
Issues Identified To Be Reprioritized	19	2	0	0	0	0	0	21
Total	75	21	32	14	2	6	54	150
New Issues (Entered into GIMCS)								
High	2	1	25	10	2	2	39	42
Medium	2	4	0	1	0	0	1	7
Nearly Resolved	3	5	1	2	0	3	6	14
Subtotal	7	10	26	13	2	5	46	63
Resolved***	4	0	0	0	1	0	1	5
Low	1	4	0	0	0	0	0	5
Drop	1	4	1	2	0	1	4	9
Regulatory Impact	0	0	0	2	1	0	3	3
Subsumed	8	2	0	1	2	0	3	13
Total Issues Prioritized	21	20	27	18	6	6	57	98
Remaining Issues To Be Prioritized or Reprioritized	54	1	5	-4	-4	0	-3	52

As of Fourth Quarter FY-85



TABLE 6

## GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-85

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

As of Fourth Quarter FY-85

TABLE 6 (CONT.)

## GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-85

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

As of Fourth Quarter FY-85

TABLE 6 (CONT.)

## GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-85

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>Prioritized in FY-85</u>				
37.	Steam Generator Overfill and Combined Primary and Secondary Blowdown	09/82	05/85	S(USI-A47)
54.	Valve Operator-Related Events Occurring During 1978, 1979, and 1980	09/82	06/85	S(II.E.6.1)
55.	Failure of IE Safety-Related Switchgear Circuit Breakers	09/82	03/85	DROP
59.	Technical Specification Requirements for Plant Shutdown	10/82	02/85	RI[S(TSIP)]
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		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
91.	Transamerica Delaval Emergency Diesel Generator Main Crankshaft Failure	03/84	07/85	NR
93.	Steam Binding of Auxiliary Feedwater Pumps	07/84	10/84	HIGH
94.	Additional Low-Temperature-Overpressure Protection For Light Water Reactors	08/84	07/85	HIGH
98.	CRD Accumulator Check Valve Leakage	09/84	02/85	DROP
99.	RCS/RHR Suction Line Interlocks on PWRs	09/84	08/85	HIGH
101.	BWR Water Level Redundancy	09/84	05/85	HIGH
102.	Human Error in Events Involving Wrong Unit or Wrong Train	09/84	02/85	S(HF-02)
103.	Design For Probable Maximum Precipitation	10/84	09/85	NR
105.	Interfacing System LOCA at BWRs	10/84	06/85	HIGH
108.	BWR Suppression Pool Temperature Limits	12/84	02/85	RI(LOW)
119.	Piping Review Committee Recommendations	07/85	09/85	RI(NR)
B-19	Thermal-Hydraulic Stability	02/83	01/85	NR
B-50	Post Operating Basis Earthquake Inspection	02/83	04/85	RI (LOW)

As of Fourth Quarter FY-85

TABLE 6 (CONT.)

GENERIC ISSUES PRIORITIZED AS OF FOURTH QUARTER FY-85

Action Item/ Issue No.	Title	Identification Date	Date Prioritized	Current Priority
<u>Prioritized in FY-85</u>				
B-50	Post Operating Basis Earthquake Inspection	02/83	04/85	RI (LOW)
B-59	N-1 Loop Operation in BWRs and PWRs	02/83	06/85	R
HF-01	Human Factor Program Plan (HFPP twenty four subtask elements)	08/83	10/84	HIGH
HF-02	Maintenance and Surveillance Program Plan (MSPP ten subtasks elements)	04/84	03/85	HIGH

As of Fourth Quarter FY-85

TABLE 7

## GENERIC ISSUES TO BE PRIORITIZED

Action Item/ Issue No.	Title	Identification Date	Current Schedule
30.	Potential Generator Missiles - Generator Rotor Retaining Rings	09/82	10/85
38.	Potential Recirculation System Failure as a Consequence of Injection of Containment Paint Flakes or Other Fine Debris	09/82	12/85
57.	Effects of Fire Protection System Actuation on Safety-Related Equipment	09/82	11/85
62.	Reactor Systems Bolting Applications	10/82	12/85
63.	Use of Equipment Not Classified as Essential to Safety in BWR Transient Analysis	10/82	01/86
71.	Failure of Resin Demineralizer Systems and Their Effects on Nuclear Power Plant Safety	06/83	11/85
72.	Control Rod Drive Guide Tube Support Pin Failures	06/83	11/85
73.	Detached Thermal Sleeves	06/83	11/85
74.	Reactor Coolant Activity Limits for Operating Reactors	06/83	11/85
76.	Instrumentation and Control Power Interactions	06/83	11/85
78.	Monitoring of Fatigue Transient Limits for Reactor Coolant System	06/83	11/85
87.	Failure of HPCI Steam Line Without Isolation	01/84	10/85
88.	Earthquake and Emergency Planning	01/84	12/85
89.	Stiff Pipe Clamps	02/84	12/85
95.	Loss of Effective Volume For Containment Recirculation Spray	08/84	12/85
96.	RHR Suction Valve Testing	04/84	11/85
97.	PWR Reactor Cavity Uncontrolled Exposure	09/84	10/85
100.	OTSG Level	09/84	11/85
104.	Reduction of Boron Dilution Requirements	10/84	12/85
106.	Piping and Use of Highly Combustible Gases in Vital Areas	10/84	11/85
107.	Generic Implications of Main Transformer Failures	11/84	11/85
109.	Reactor Vessel Closure Failure	12/84	11/85
110.	Equipment Protection Devices on Engineered Safety Features	12/84	12/85
111.	Stress Corrosion Cracking of Pressure Boundary Ferritic Steels in Selected Environments	01/85	11/85
112.	Westinghouse RPS Surveillance Frequencies and Out-of-Service Times	01/85	10/85

As of Fourth Quarter FY-85

TABLE 7 (CONT.)

## GENERIC ISSUES TO BE PRIORITIZED

Action Item/ Issue No.	Title	Identification Date	Current Schedule
113.	Dynamic Qualification Testing of Large Bore Hydraulic Snubbers	03/85	12/85
114.	Seismic-Induced Relay Chatter	03/85	12/85
115.	Reliability of Westinghouse Solid State Protection System	04/85	01/86
116.	Accident Management	04/85	02/86
117.	Allowable Outages Times For Diverse Simultaneous Equipment Outages	05/85	02/86
118.	Tendon Anchorage Failure	07/85	03/86
120.	On-Line Testability of Protection Systems	08/85	04/86
121.	Hydrogen Control For Large Dry Containments	08/85	10/85
122.	Davis-Besse Loss of All Feedwater Event	08/85	10/85

TABLE 8

GENERIC ISSUES TO BE REPRIORITIZED

Action Item/ Issue No.	Title	Previous Priority	Identification Date	Current Schedule
2.	Failure of Protective Services on Essential Equipment	M	05/83	03/86
21.	Vibration Qualification of Equipment	S (A-46)	03/83	03/86
24.	Automatic Emergency Core Cooling System Switch to Recirculation	NR	03/83	03/86
A-19	Digital Computer Protection System	LI	02/83	12/85
B-22	LWR Fuel	LI	02/83	12/85
B-29	Effectiveness of Ultimate Heat Sinks	LI	02/83	11/85
B-31	Dam Failure Model	RI	02/83	12/85
B-32	Ice Effects on Safety Related Water Supplies	LI	02/83	12/85
B-55	Improved Reliability of Target Rock Safety Relief Valves	M	02/84	12/85
C-4	Statistical Methods for ECCs Analysis	RI	02/83	12/85
C-5	Decay Heat Update	RI	02/83	12/85
C-6	LOCA Heat Sources	RI	02/83	12/85
C-9	RHR Heat Exchanger Tube Failures	D	07/84	12/85
C-14	Storm Surge Modes for Coastal Sites	RI	02/83	12/85
D-2	Emergency Core Cooling System Capability for Future Plants	S (A-45)	06/83	11/85
III.D.1.1(2)	Review Information on Provisions for Leak Detection	I	12/82	10/85
III.D.1.1(3)	Develop Proposed System Acceptance	I	12/82	10/85



TABLE 9

SUMMARY OF THE PRIORITIZATION OF ALL TMI ACTION PLAN ITEMS,  
TASK ACTION PLAN ITEMS, NEW GENERIC ISSUES, AND HUMAN FACTORS ISSUES

Legend

- NOTES: 1 - Possible Resolution Identified for Evaluation  
2 - Resolution Available  
3 - Resolution Resulted in either the Establishment  
of New Requirements or No New Requirements  
4 - Issues to be Prioritized in the Future  
5 - Issue that is not a Generic Safety Issue but  
should be Assigned Resources for Completion

- HIGH - High Safety Priority  
MEDIUM - Medium Safety Priority  
LOW - Low Safety Priority  
DROP - Issue Dropped as a Generic Issue  
USI - Unresolved Safety Issue  
I - TMI Action Plan Item with Implementation  
of Resolution Mandated by NUREG-0737

As of Third Quarter FY-85



TABLE 9. (Continued)

ACTION ITEM/ISSUE GROUP	I	COVERED IN OTHER ISSUES	RESOLVED STAGES			USI	HIGH	MEDIUM	LOW	DROP	NOTE 4	NOTE 5	TOTAL
			NOTE 1	NOTE 2	NOTE 3								
1. <u>TMI ACTION PLAN ITEMS (352)</u>													
(a) <u>Safety</u>													
(i) Generic Safety	94	58	6	1	93	0	12	5	13	7	2	-	291
(b) <u>Non-Safety</u>													
(i) Licensing	-	0	0	4	51	-	-	-	-	0	0	6	61
2. <u>TASK ACTION PLAN ITEMS (142)</u>													
(a) <u>Safety</u>													
(i) USI	-	-	0	1	14	12	-	-	-	-	-	-	27
(ii) Generic Safety	-	17	0	1	26	-	4	7	3	9	10	-	77
(iii) Regulatory Impact	-	0	0	0	2	-	-	-	1	0	0	1	4
(b) <u>Non-Safety</u>													
(i) Licensing	-	0	0	0	1	-	-	-	-	7	0	11	19
(ii) Environmental	-	1	0	0	6	-	-	-	-	6	0	2	15
3. <u>NEW GENERIC ISSUES (131)</u>													
(a) <u>Safety</u>													
(i) Generic Safety	1	32	3	5	13	0	8	7	5	12	38	-	124
(ii) Regulatory Impact	-	0	0	0	0	-	-	-	1	0	0	3	4
(b) <u>Non-Safety</u>													
(i) Licensing	-	0	0	0	0	-	-	-	-	0	0	3	3
4. <u>HUMAN FACTORS ISSUES (18)</u>													
(a) <u>Safety</u>													
(i) Generic Safety	-	0	0	0	0	0	14	0	0	0	0	-	14
(b) <u>Non-Safety</u>													
(i) Licensing	-	0	0	0	0	-	-	-	-	0	0	4	4
TOTAL:	95	108	9	12	206	12	38	19	23	41	50	30	643

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
3	Safety/ NR	Active-L1	RES/DET/EEICB	Al Hintze	52400

Title ----- Set Point Drift in Instrumentation.

Work Authorization --- NRR FY-84 Operating Plan, (Appendix G).

Contract Title ----- None

Contractor Name/  
FIN No. ----- None

Work Scope ----- Provide technical assistance, as required, to RES for the revision and issuance of Regulatory Guide 1.105, Revision 2.

Affected Documents --- Revise Reg. Guide 1.105, Rev. 2 (a revision to a SRP to incorporate Reg. Guide is not anticipated).

Status ----- The technical resolution is identified and documented in the revision to Reg. Guide 1.105.

Problem/Resolution -- After CRGR review, differing staff opinions could not be resolved. RES will request NRR help in establishing bases for RG position.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Technical input necessary to revise Reg. Guide 1.105 was transmitted to RES.	-	-	11/12/82
RES to submit CRGR package for review.	10/83	-	08/05/83
CRGR review completed and returned to RES with comments.	11/83	-	10/20/83
ACRS review completed	-	-	11/19/83
RES incorporated CRGR comment and returned for approval.	-	-	12/12/83
CRGR review	03/84	-	01/11/84

As of Fourth Quarter FY-85

## Generic Issue #3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR meeting	-	-	03/12/85
Issue Memorandum to NRR to establish basis for R.G. Position.	08/84	04/85	05/06/85
NRR response to Position memorandum	-	07/85	06/27/85
ACRS review complete	10/84	10/85	-
Reg. Guide issued.	05/84	12/85	-
Issue transfer memo to NRR/ICSB	-	12/85	-
ICSB Staff assessment of Reg. Guide impact on SRPs, issue close-out memo or expand schedule	**	01/86	-

\*\*One month after issuance of revised Regulatory Guide 1.105, ICSB will close out issue or provide schedule for the required SRP revision.

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
14	Safety/ NR	Active-L1	NRR/DE/MTEB	K. Wichman	11860
Title -----		PWR Pipe Cracks (Feedlines of Westinghouse and CE Plants)			
Work Authorization ---		NRR FY-84 Operating Plan, (Appendix G).			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<ol style="list-style-type: none"><li>1. Determine the current status of PWR's regarding this issue:<ol style="list-style-type: none"><li>(a) Nature of mitigating measures taken (if any).</li><li>(b) Results of inservice inspections subsequent to short-term fixes.</li><li>(c) Plans for further actions (if any) (possibly meet with Owner's Group).</li></ol></li><li>2. As necessary, draft new SRP Section regarding augmented inservice inspections of the PWR feed-water piping in the vicinity of the steam generator nozzles.</li><li>3. Issue the SRP Section for comment.</li><li>4. Resolve comments and issue final SRP Section.</li><li>5. Establish future inspection schedules depending on mitigating actions taken, inspection results, and specific system geometry.</li></ol>			
Affected Documents ---		Issue SRP Section.			
Status -----		NUREG-0691 was published in September 1980. An implementation plan has not been developed and may not be needed because of recent modifications to, and improved inspections of feedwater piping systems. Therefore, the DE staff is working with DL to determine the current status of PWRs regarding this matter. We will then evaluate the need for an implementation program. That could require an SRP revision (Work Scope item 2-5).			

The MTEB staff has not yet been successful in accomplishing item 1 of the Work Scope. This has resulted in several months delay. MTEB had explored with DL, alternative means to obtain the current status of inspection frequencies and results and any significant operating procedures or other remedial changes made at operating W and CE facilities. These potential means varied from informal information gathering via TIA's to the Regional Offices to formal inquiries via a generic letter. Some of the Regions declined to accommodate our requests and alternatively, going formal (50:54f) requires OMB clearance and CRGR review, which was deemed difficult to justify in view of the relative safety significance of this issue. Nevertheless, it was recently decided by DL, IE and DE management to formally request this information via 50.54f letters and to ascertain the current structural integrity of feedwater piping via an IE Bulletin issued simultaneously with the letters. This process is dependent on the results of the Regulatory Analysis being performed by LLNL. The Regulatory Analysis should be available in mid-CY 1985.

## Problem/Resolution ---

The preliminary results of the regulatory analysis received from LLNL in May 1985 indicate that this issue may have little safety significance. It is anticipated that this issue can be closed out on this basis and the milestone schedule below reflects this approach.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Staff review of NUREG-0691 and other existing information.	06/01/83*	-	06/01/83
Receive Regulatory Analysis from LLNL and returned for rework	-	05/85	05/85
Final regulatory analysis received from LLNL.	-	09/85	09/85
Closeout memorandum prepared reflecting low safety significance	-	09/85	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
23	Safety/ High	Active-L1	NRR/DST/GIB NRR/(ICSB)(CSB) (ASB)(RSB)(HFEB)	A. Rubin	49716
Title -----		Reactor Coolant Pump Seal Failures.			
Work Authorization ---		NRR FY-84 Operating Plan, (Appendix G).			
Contract Title -----		1) Reactor Coolant Pump Seal Integrity 2) Assessment of Effect of Mechanical and Maintenance-Induced Reactor Coolant Pump Seal Failures on Risk 3) Evaluation of the Adequacy of Current RCP Seal Instrumentation and Operator Responses to Possible RCP Failures 4) Reactor Coolant Pump Shaft Seal Behavior During Station Blackout 5) Leak Rate Analysis of Westinghouse Reactor Coolant Pump			
Contractor Name/ FIN No. -----		1) Brookhaven National Laboratory/FIN No. A-3751 2) Brookhaven National Laboratory/FIN No. A-3771 3) Brookhaven National Laboratory/FIN No. A-3806 4) Idaho National Engineering Laboratory/FIN No. A-6322 5) Energy Technology Engineering Center/FIN No. B-3049			
Work Scope -----		<p>The task action plan for this issue has been revised to incorporate work task necessary to complete Generic Issue 65. Review PWR reactor coolant pump seal failures caused by mechanical failures and loss of seal cooling to ascertain if increased NRC requirements are necessary to minimize seal failures. Evaluate the effects of system design, materials, operation, testing, and maintenance on seal failure mechanisms. Review the reliability 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.</p> <p>This program will determine what steps the NRC should take, if any, to reduce reactor coolant pump (RCP) seal failure to an acceptable level commensurate with the potential safety consequences of seal failure. The program consists of the following major tasks:</p> <ol style="list-style-type: none"> <li>Task 1 - Determine actual seal failure mechanisms.</li> <li>Task 2 - Evaluate RCP seal cooling for all modes of operation for which seal cooling is required using the reliability of typical RCP seal cooling system designs.</li> </ol>			



Generic Issue #23

- 2 -

- c. Task 3 - Review mechanical and maintenance-induced failure mechanisms.

The Task Action Plan is currently being reviewed to assure that ACRS comments (August 14, 1984 ltr. J. Ebersole to W. Dircks) regarding conversion of Generic Issue 23 to an Unresolved Safety Issue (USI) are being incorporated.

Affected Documents ---

Issue NUREG- (To be Determined)  
Review and Issue Standard Review Plan (SRP)  
Section 9.2.2 (To Be Determined)  
Revise and Issue SRP Section 9.3.4 (To Be Determined)  
Issue New Regulatory Guide and SRP Section (To Be Determined)

Status -----

Work is currently in progress on Tasks 1, 2, and 3 as follows: RSB has provided input to Task 1 (Assemble background information on seal failures). This work includes subtasks to: (1) perform an LER search, (2) review industry experience, and (3) perform a BWR screening review. BNL has completed additional work on this task under FIN # A-3771 which will be published as a NUREG document by 9/30/85.

EQB is currently working on Task 2 (subtask 2.1). EQB's task is to evaluate the effects of loss of seal cooling. RES is providing input through contracts with AECL and ETEC. The AECL contract work has been completed and NUREG/CR-4077, "Reactor Coolant Pump Shaft Seal Behavior During Station Blackout" has been issued. The ETEC contract work has been completed and NUREG/CR-4294, "Leak Rate Analysis of the Westinghouse Reactor Coolant Pump" has been issued.

EQB, under technical assistance contract (FIN # A-3751) with BNL is working on Task 2 (subtask 2.2). The purpose of this subtask is to evaluate the reliability of cooling water systems. Subtask 2.2 should be completed by 9/30/85.

EQB, under technical assistance contract (FIN # A-3771) with BNL is working on Task 3 (subtask 3.1). The purpose of this subtask is to evaluate the effect of mechanical and maintenance induced RCP seal failures or risk. Subtask 3.1 has been completed and the NUREG document should be issued by 9/30/85.

EQB, under technical assistance contract (FIN # A-3806) with BNL is working on Task 2 (subtask 2.3) and Task 3 (subtask 3.2). The purpose of these subtasks are to evaluate the adequacy of current RCP seal and seal cooling system instrumentation to detect RCP seal degradation and



## Generic Issue #23

- 3 -

failures; to evaluate the adequacy of current automatic actions and manual operator responses to prevent RCP seal LOCAs or other unacceptable events and to propose possible instrumentation changes, automatic actions or manual operator responses which could improve the current RCP seal safety procedures. Subtasks 2.3 and 3.2 should be completed by 9/30/85.

Problem/Resolution --- Generic Issue 23 was evaluated and recommended for conversion to an Unresolved Safety Issue. However, this conversion was not approved by the Commission. The responsibility for the management of GI #23 has been transferred from DE/EQB to DST/GIB by memorandum from H. Denton to T. Speis and J. P. Knight dated May 13, 1985. DST will develop a revised schedule necessary to complete this issue. The revised milestones will incorporate evaluating the results of the French RCP seal Test.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
GI Action Plan issued For Comment	04/83	-	03/31/83
Action Plan Approved by Director, DSI.	10/83	-	10/26/83
Transferred Resolution Responsibility from DSI to DE	-	-	06/15/84
Transferred resolution responsibility from DE to DST/GIB	-	-	05/13/85
Complete documentation of back- ground past seal failures, including LER search, review of industry experience, and review of BWR screening (Task 1).		05/85	10/17/84
Complete evaluation of RCP seal cooling, including determining effect of loss of cooling, evaluating reli- ability of cooling systems, and reviewing RCP seal cooling instrumentation (Task 2)	12/84	09/85	-
Issued request for proposal to BNL for component cooling water PRA.	-	-	11/02/83

As of Fourth Quarter FY-85

## Generic Issue #23

- 4 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Complete evaluation of mechanical and maintenance induced failure mechanisms (Task 3).	01/85	09/85	-
Complete feasibility study to identify most effective fix.	03/85	10/85	-
Technical resolution complete.	07/85	10/85*	-
Division Director approval of CRGR package. Sent for Division Director comments.	08/85	10/85*	-
Comments incorporated. CRGR package sent to Director NRR.	09/85	10/85*	-
Director, NRR review complete. Package sent to CRGR.	10/85	-	-
CRGR review complete.	11/85	-	-
ACRS review complete.	11/85	-	-
EDO approval.	12/85	-	-
Federal Register Notice issued for public comment.	12/85	-	-
OMB Clearance.	04/86	-	-
Incorporation of comments Package sent to Director, NRR.	04/86	-	-
Director, NRR review complete.	05/86	-	-
CRGR review complete.	06/86	-	-
EDO approval.	06/86	-	-
FR Notice of issuance of SRP Change.	07/86	-	-

(Note: Tasks 1, 2 and 3 are not sequential as they will be worked on simultaneously.)

\*Schedule will be reevaluated and adjusted based on results received from the French Reactor RCP seal Testing.

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
29	Safety/ High	Active-L1	NRR/DE/MTEB	C. D. Sellers	52454
Title -----		Bolting Degradation or Failures in Nuclear Power Plants			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G).			
Contract Title -----		Bolting Applications Requirements			
Contractor Name/ FIN No. -----		Brookhaven National Laboratory/A-3359 and A-3782			
Work Scope -----		<ol style="list-style-type: none"><li>1. Development of the technical bases for bolting application requirements by MTEB through its contractor at BNL.</li><li>2. Review licensees' responses to IEB No. 82-02, "Degradation of Threaded Fasteners in the Reactor Coolant Pressure Boundary of PWR Plants."</li><li>3. Draft staff recommendation for proposed criteria/guidelines to be incorporated into SRP (NUREG-0800).</li><li>4. Develop a proposed implementation plan for management consideration.</li></ol>			
Affected Documents ---		SRP section revision.			
Status -----		<p>IEB No. 82-02 was issued in March, 1982. A technical assistance contact was made to BNL to develop the technical bases for a staff proposed new criteria/guideline. Work has been ongoing since the Spring of 1982. The draft contractor report was completed by July 15, 1983 but subcontracted work to Standard Pressed Steel will not be completed until December 14, 1983.</p> <p>IEB No. 82-02 information has not been compiled. However, the completion of the compilation is not required for the preparation of a staff bolting position given that some information has been obtained from license submittals. In May 1984 BNL let a subcontract with ACH Technology to assist in preparing a draft staff position. Background information has been provided to the contractor for use in preparation of the staff position paper. A draft Standard Review Plan for "Reactor Coolant Pressure Boundary Bolting" has been prepared.</p>			

## Generic Issue #29

- 2 -

Problem/Resolution --- There continues to be the problem of PNL not being able to meet the schedule for providing an acceptable draft Value/Impact statement. This has resulted in a 5 month delay in the completion date of this GI.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issued contract to BNL.	-	-	03/15/83
Draft NUREG/CR report received from contractor.	07/83	-	07/15/83
Staff review of draft NUREG/CR report.	07/83	03/84	03/06/84
Draft Staff Position (Revise SRP Section).	-	07/84	08/10/84
Value Impact Statement prepared.	08/83	04/85	05/85
Final CRGR package prepared for Division review.	09/83	10/85	-
Final CRGR package forwarded for NRR divisions review.	10/83	11/85	-
NRR Director Review completed.	12/83	12/85	-
Review Package to CRGR.	01/84	01/86	-
CRGR review completed.	02/84	02/86	-
EDO approval.	03/84	02/86	-
Federal Register Notice of Issuance of Proposed SRP Raised for Public Comment.	03/84	03/86	-
Division review of public comments completed.	07/84	06/86	-
NRR Director review completed.	08/84	07/86	-
CRGR review completed.	08/84	07/86	-

As of Fourth Quarter FY-85

Generic Issue #29

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
EDO approval.	08/84	07/86	-
Federal Register Notice of Issuance of SRP.	09/84	08/86	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
36	Safety/ NR	Active-L1	NRR/DSI/ASB	N. Wagner	54482
Title -----		Loss of Service Water (Calvert Cliffs Unit 1).			
Work Authorization ---		Memorandum to R. J. Mattson from H. R. Denton dated February 15, 1984.			
		NRR FY-84 Operating Plan (Appendix G).			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Revise SRP Section 9.2.1, 9.2.2 to incorporate concerns of interaction between safety and nonsafety-related portions of SW and CW systems which result in inoperability of safety-related portions, including possibility of entrance of air resulting in air binding of pumps.			
Affected Documents ---		SRP Sections 9.2.1, 9.2.2.			
Status -----		ASB will begin preparing a SRP revision package in the third quarter of FY1985. The SRP revision package was submitted to DST for their review and approval on 8/12/85.			
Problem/Resolution --		None			
Technical Resolution -		See below			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
ASB completes SRP Revision Package.	09/84	06/85	08/85
DSI Division Director Approval.	10/84	08/85	08/12/85
SPEB Review and Approval.	10/84	09/85	-
SPEB Prepares Final SRP Revision Package for Office Director Approval.	11/84	10/85	-
DST Division Director Approval.	12/84	12/85	-
NRR Office Director Approval.	01/85	02/86	-

As of Fourth Quarter FY-85

Generic Issue #36

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Notify CRGR of Intent to Publish.	02/85	03/86	-
FR Notice Issues and SRP Change Issue for Use.	03/85	05/86*	-

\*Memorandum for T. Speis from R. Bernero dated September 13, 1984 revised the schedule for resolution of Generic Issue #36.



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
48	Safety/ NR	Active-L1	NRR/DSI/PSB	O. Chopra	55223
Title -----		LCO for Class IE 120V AC Vital Instrument Buses in Operating Reactors.			
Work Authorization ---		<p>Memorandum to D. G. Eisenhower from H. R. Denton dated October 15, 1983.</p> <p>Memorandum to R. J. Mattson from T. S. Speis dated March 1, 1984, "Transfer of Lead Responsibility for Generic Issue No. 48 from DL to DSI."</p> <p>NRR FY-84 Operating Plan, (Appendix G).</p>			
Contract Title -----		PWR 120V AC Vital Instrument Buses and Inverter Technical Specifications			
Contractor Name/ FIN No. -----		Lawrence Livermore National Laboratory/UCID 19469			
Work Scope -----		Review LLNL Technical Evaluation Report containing the technical finding to the above issue. Determine if there is any need for additional work to be performed by the staff or staff contractor. Prepare package containing the resolution of the issue for CRGR review. After CRGR approval issue generic letter requesting all licensees to propose technical specifications limiting the time the 120V AC vital buses may be energized from a source other than its Class 1E DC bus and associated inverter.			
Affected Documents ---		Plant Technical Specifications			
Status -----		RRAB has completed its review of the LLNL report and determined additional work is required to complete this study. RRAB requested plant specific information to perform a new analysis on this issue. Plant specific information will be obtained from selected licensees during October 1985.			
Problem/Resolution ---		RRAB concluded original analysis was inadequate. New analysis from RRAB will not be available during FY1985 and will require additional detailed plant specific information. Based on the above, the schedule for GI 48 was slipped.			
Technical Resolution -					
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Generic Issue 48 assigned to DL by Director, NRR		-	-	10/15/83	

As of Fourth Quarter FY-85

## Generic Issue #48

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic issue lead responsibility transfer from DL to DSI	-	-	03/01/84
Request to RRAB for technical assistance to review PRA done by LLNL	10/84	-	05/01/84
Complete review of LLNL report by the RRAB	02/85	-	10/15/84
RRAB requested for plant specific information to complete new study	-	-	04/11/85
Collect information from selected licensees on 120V AC vital instrument busses	-	10/85	-
Information received from licensees	-	10/85	-
ICSB evaluation of the licensee information	-	11/85	-
Complete revised technical resolution of the issue by RRAB	03/85	03/86	-
Technical resolution identified. Prepare review package for CRGR	04/85	04/86	-
Division Director approval of CRGR package. Package to other division directors for comments.	06/85	05/86	-
Other division comments incorporated. Package sent to Director, NRR.	07/85	06/86	-
Director, NRR review complete. Package sent to CRGR.	08/85	07/86	-
CRGR review complete.	09/85	09/86	-
EDO approval.	10/85	10/86	-
OMB clearance.	01/86	12/86	-

As of Fourth Quarter FY-85

Generic Issue #48

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue close-out memorandum (generic letter to all operating plants)	02/86	01/87	-
Technical resolution complete	02/86	02/87	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
49	Safety/ Medium	Inactive-L1	NRR/DSI/PSB	P. Gill	TBP

Title ----- Interlocks and LCOs for Class 1E Tie Breakers.

Work Authorization --- Memorandum to Daniel Muller from Harold Denton, dated July 31, 1984.

Contract Title ----- To be determined.

Contractor Name/  
FIN No. ----- To be determined.

Work Scope ----- Prepare generic letter to all licensees requesting electrical interconnection design information. Prepare contract proposal for evaluation and assimilation of electrical interconnection design information. Prepare contract proposal for determining benefit/detriment of electrical interconnection. Evaluate staff contractors finding to determine if additional work needs to be performed by staff or staff contractor. Prepare package containing resolution findings for CRGR review. Issue generic letter, as necessary, requesting all licensees to implement technical resolution.

Technical resolution will include

1. Prepare a generic information request for transmittal to all operating plants to identify extent and design of electrical interconnections between Class 1E buses at operating plants. Solicit a contract proposal for evaluation and assimilation of this design information.
2. Determine benefit/detriment in permitting electrical interconnections between Class 1E buses by performing a comparative PRA. Prepare and solicit a contract proposal for resolution.
3. Identify cost/benefit for each technical resolution (hardware, procedures, etc.). Prepare a listing of all technical resolutions and solicit a contract proposal to obtain cost/benefit for each resolution identified.

Affected Documents --- None

## Generic Issue #49

- 2 -

Status ----- Inactive during FY 84 and FY 85. Work will not begin until FY 1986.

Problem/Resolution --- None

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic information request to DL for comment	11/85	-	-
Request CRGR review and comment	12/85	-	-
CRGR review complete	01/86	-	-
Generic information request to DL	02/86	-	-
Generic letter to all OR's from DL	03/86	-	-
Request RRAB comments on contract proposal	04/86	-	-
RRAB comments received	05/86	-	-
Contract proposal solicited	06/86	-	-
Contract proposal evaluated and accepted	09/86	-	-
Generic information received from OR	09/86	-	-
Draft report from contractor	01/87	-	-
Request RRAB comments on draft NUREG/CR report	02/87	-	-
Comments received from RRAB	04/87	-	-
Staff review of draft NUREG/CR reports	06/87	-	-
Technical resolution complete	08/87	-	-
CRGR package to NRR Division Directors for review	12/87	-	-

As of Fourth Quarter FY-85

## Generic Issue #49

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR Package to NRR Director	02/88	-	-
Review Package to CRGR	03/88	-	-
CRGR review complete	04/88	-	-
EDO approval complete	05/88	-	-
OMB clearance	08/88	-	-
Issue generic letter as necessary to all operating plants	09/88	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
51	Safety/ Medium	Active-L1	NRR/DSI/ASB	N. Wagnèr	53338
Title -----		Proposed Requirements for Improving Reliability of Open Cycle Service Water Systems			
Work Authorization ---		Memorandum to R. J. Mattson from H. R. Denton dated June 3, 1983.  NRR FY-84 Operating Plan, (Appendix G).			
Contract Title -----		Determination of Methods for Surveillance and Control of Fouling of Open Cycle Water Systems.			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		The detailed work scope is provided in Task Action Plan for resolution of Generic Issue No. 51 (Memorandum from R. Mattson to T. Speis, et al, dated 01/11/84). In summary, the scope of this task will be to evaluate the adequacy of surveillance and control methods and to propose the use of those methods which will assure the continued reliability of open cycle service water systems against various forms of fouling.			
Affected Documents ---		To Be Determined			
Status -----		Task action plan was revised and issued on 10/3/84. The statement of work (SOW) was revised on 5/9/85 to incorporate RES project task V into NRRs technical assistance project. The TAP was revised to be consistent with the SOW and to assure that it incorporated milestones necessary to process CRGR SRP packages through issuance and use. The first tasks associated with this issue are tied to research project B2463 performed by RES. The first four tasks are essentially complete. Based upon the results of this research which deals with biofouling, DSI will adapt, where possible, methods for surveillance and control of biofouling to fouling by mud, silt and corrosion products.  Coordination of this project with RES is documented in a Memorandum from R. Mattson to F. Arsenault, dated 01/23/84.			
Problem/Resolution ---		Due to budget constraints, RES was not be able to provide all of the technical assistance originally planned. In particular, they could not fund Task V of their FIN B2463; Task V called for preparation of a final report consolidating the results of the previous four tasks. NRR has established a technical			



## Generic Issue #51

- 2 -

assistance contract that will use the results of Tasks I-IV of RESFIW B2463 to develop methods for surveillance and control of fouling by mud, silt and corrosion products.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Task action plan Approved by Director, DSI.	01/84	-	01/11/84
Revised work plan approved and issued	-	-	10/03/84
Proposals solicited	07/84	-	10/31/84
PNLs response to request For Proposal and SOW	-	-	12/21/84
Revised SOW to incorporate RES Task V	-	-	05/09/85
Proposal Evaluated and Accepted	02/85	10/85	08/85*
Contract Schedule	03/85	11/85	-
Draft NUREG/CR report from contract consultant	07/86	03/87	-
Staff review of draft NUREG/CR report	08/86	03/87	-
Staff review of final NUREG/CR report	09/86	04/87	-
Value Impact Statement prepared	10/87	06/87	-
Final report prepared by Division	11/87	07/87	-
Final report forwarded to DST for processing	11/87	08/87	-
NRR Director Review completed	12/87	09/87	-

\*Subcontractor may revise proposal to incorporate additional work required by Task V of Research Project B-2463.

As of Fourth Quarter FY-85

## Generic Issue #51

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Review Package to CRGR	12/87	10/87	-
CRGR review completed	01/88	11/87	-
EDO approval	02/88	12/87	-
Federal Register Notice of Issuance of SRP for Public Comment	05/88	01/88	-
OMB Clearance, if applicable	06/88	01/88	-
Division review of public comments completed	07/88	02/88	-
NRR Director review completed	07/88	03/88	-
CRGR review completed	08/88	04/88	-
EDO Approval	09/88	04/88	-
Federal Register Notice of Issuance of SRP	09/88	05/88	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
61	Safety/ Medium	Active-L1	NRR/DSI/CSB	F. Eltawila	55224
Title -----		SRV Discharge Line Break Inside the Wetwell Airspace of BWR Mark I and Mark II Containments			
Work Authorization ---		Memorandum to R. J. Mattson from H. R. Denton dated November 30, 1983.			
		NRR FY-84 Operating Plan (Appendix G)			
Contract Title -----		Steam Bypass in Mark I and II Containments Due to Postulated SRV Discharge Failure			
Contractor Name/ FIN No. -----		BNL/A3793			
Work Scope -----		BNL's report, NUREG-31940, discusses the consequences of the above problem. The findings in NUREG-31940 involve a considerable amount of uncertainty. Additional study is needed to more accurately quantify the consequences associated with such accidents. This activity will develop the need for additional work by the staff, staff contractor or applicants/ licensees of plants with Mk I & II containments. The results of this work will determine the next action to be taken to resolve issue.			
Affected Documents ---		BNL-NUREG-31940.			
Status -----		Revised proposal for BNL tech assistance was accepted by DSI, letter dated 12/19/84. Completion of a feasibility study to identify the most effective fix to reduce containment failure due to SRV line break in air-space region of the suppression pool is planned for December 1985.			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue assigned to DSI.	11/83	-	11/03/83
Task Action Plan approved by Director, DSI.	01/84	-	01/11/84
Complete review of BNL-NUREG-31940	03/85	-	12/14/84

As of Fourth Quarter FY-85

## Generic Issue #61

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Complete feasibility study to identify the most effective fix to reduce containment failure due to SRV line break in air-space region of the suppression pool.	10/85	12/85*	-
Technical resolution identified. Prepare CRGR package or close-out documentation.	01/86	-	-
Division Director approval of CRGR package. Package sent to DST, DL and others for comment.	02/86	-	-
DST, DL and other Division Directors' comments incorporated. Package sent to Director, NRR.	03/86	-	-
Director, NRR review complete. package sent to CRGR.	05/86	-	-
CRGR review.	06/86	-	-
ACRS review.	07/86	-	-
EDO approval.	08/86	-	-
FR Notice of draft NUREG for public comment.	08/86	-	-
OMB Clearance, if needed.	10/86	-	-
Incorporate public comments.	11/86	-	-
Final issuance of NUREG.	03/87	-	-
Issue Generic Letter to all operating BWR plants with Mark I and Mark II containments.	03/87	-	-

\*Due to late start, this milestone is delayed by 2 months, however, it is expected that other milestones will be maintained.

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
65	Safety/ High	Scheduled with GI 23	NRR/DST/GIB	A. Rubin	49716
Title -----		Component Cooling Water System Failures			
Work Authorization ---		Memorandum to R. J. Mattson from H. R. Denton dated September 8, 1983.  NRR FY-84 Operating Plan (Appendix G).			
Contract Title -----		Reactor Coolant Pump Seal Integrity			
Contractor Name/ FIN No. -----		Brookhaven National Laboratory/FIN No. A-3751			
Work Scope -----		<p>The consequences of loss of component cooling water relative to reactor coolant pump (RCP) seal degradation, will be determined. The reliability of existing and proposed seal cooling systems will be assessed to determine if additional licensing requirements are required. This work comprises Task 2 of Generic Issue 23, "Reactor Coolant Pump Seal Failures." In addition DST will coordinate work efforts with the following Branches:</p> <p>NRR/DSI(ICSB)(RSB) (ASB) NRR/DST(RRAB) NRR/DHF(HFEB)(PSRB)</p> <p>Interruption of seal cooling may lead to RCP seal failure and subsequent loss of primary coolant to containment, i.e., a small LOCA. Where the component cooling water system is also used for cooling reactor coolant system makeup pumps, makeup capability could be lost coincident with the seal leakage and core melt could result.</p> <p>The program will determine what steps the NRC should take, if any, to ensure increased reliability of the component cooling water system relative to its RCP seal cooling function. Test data will be reviewed to determine the time to failure of seals without seal cooling and the leak rate resulting from this type of failure. A probabilistic risk assessment will be performed to identify the major contributors to component cooling water system unreliability and the contribution to core melt probability due to loss of RCP seal cooling systems. A review will be performed of instrumentation available to the operator as</p>			

Generic Issue #65

- 2 -

well as automatic or manual actions which can be taken to minimize interruptions of RCP seal cooling or prevent unacceptable consequences from loss of seal cooling.

Affected Documents --- Issue NUREG- (To Be Determined)  
Revise and Issue Standard Review Plan  
(SRP) Section 9.2.2 (To Be Determined)  
Revise and Issue SRP Section 9.3.4  
(To Be Determined)  
Issue New Regulatory Guide and SRP  
Section (To Be Determined)

Status ----- A revised Task Action Plan has been developed for Generic Issue 23 which includes work for Generic Issue 65. A probabilistic risk assessment of component cooling water system reliability is being performed by BNL under a technical assistance contract (FIN No. A-3751).

Problem/Resolution --- None.

Technical Resolution - Refer also to Generic Issue No. 23.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Task Action Plan for Generic Issue 23, "Reactor Coolant Pump Seal Failure" was revised to incorporate GI-65 tasks and was issued.	--	--	10/26/83
Issued Request for Proposal to BNL for component cooling water PRA.	--	--	11/02/83
For milestone necessary to Resolve and complete this issue refer to Milestone for Generic Issue No. 23, Task 2			

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
66	Safety/ NR	Active-L1	NRR/DL/ORAB	E. Murphy	TBP
Title -----		Steam Generator Requirements (Integrated Program for Resolution of USIs A-3, A-4 and A-5 Regarding Steam Generator Tube Integrity).			
Work Authorization ---		Memorandum to D. G. Eisenhut from H. R. Denton dated November 16, 1983  NRR FY-84 Operating Plan (Appendix G).			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Technically resolved Unresolved Safety Issues A-3, A-4, and A-5 Regarding Steam Generator Tube Integrity.			
Affected Documents ---		Issue NUREG-0844, "NRC Integrated Program for the Resolution of Unresolved Safety Issue A-3, A-4, and A-5 Regarding Steam Generator Tube Integrity."			
Status -----		Draft NUREG-0844 documents the Staff's proposed resolution of USIs A-3, 4, and 5 and was issued for public comment on April 22, 1985. With final publication of NUREG-0844, the USIs will be considered technically resolved.  As part of the technical resolution of USIs A-3, 4, and 5, the staff issued a Generic Letter 85-02, dated April 17, 1985, to inform PWR licensees and applicants of staff recommendations stemming from its proposed resolution of the USIs and to request information regarding their programs to ensure SG tube integrity and the mitigability of SGTRs.			
Problem/Resolution ---		Milestones for completion of this issue were slipped by one month in order to incorporate Commission comments/directions into NUREG-0844 and the generic letter.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
ACRS review complete	-	-	10/18/83
CRGR review complete	-	-	10/29/83



## Generic Issue #66

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Commission Paper on Proposed USI resolution (SECY 84-13)	-	-	01/11/84
Revised Commission Paper on proposed USI resolution (SECY 84-13A)	-	07/84	09/07/84
Commission Meeting	02/84	11/84	09/10/84
(a) Issue SECY 84-13B	-	-	11/05/84
(c) Issue SECY 85-62	-	-	02/22/85
Issue generic letter (85-02)	03/84	04/85	04/17/85
Issue FR Notice for public comment on NUREG-0844 (For Comment)	03/84	04/85	04/22/85
Division incorporation of public comments.	07/84	10/85	-
Director, NRR review complete.	08/84	11/85	-
EDO review complete.	08/84	11/85	-
Issue FR Notice for Formal determination by staff of USI resolution NUREG-0844	09/84	11/85	-
Issue report to Commission regarding responses to generic letter and close-out memorandum	-	11/85*	-

\*Resolution schedule is dependent upon timely input of DES and DSIs reviews of Licensee responses.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
67 Subtask 67.7	Safety/ Medium	Active-L1	NRR/DE/MTEB	H. F Conrad	59303
Title ----- Steam Generator Staff Actions - Eddy Current Tests					
Work Authorization --- Memorandum To J. Knight From H. Denton dated March 28, 1985					
Contract Title ----- ASME Code Provisions For Eddy Current Testing					
Contractor Name/ FIN No. ----- Oak Ridge National Laboratory/A-9476					
Work Scope ----- Review current ASME Code requirements with respect to licensing needs for eddy current inservice inspection of steam generator tubes. Provide a critique of current code requirements. Formulate recommendations for improving code provisions for eddy current testing. Perform confirmatory testing as required to substantiate technical validity of existing or proposed code provisions. Attend and participate in pertinent Code subcommittee and subgroup meetings of both Sections V and XI. In the event that the Code is unable to incorporate those improved eddy current testing provisions deemed necessary, provide recommendations for a Draft Regulatory Guide.					
Affected Documents --- To Be Provided Later					
Status ----- We have discussed our work plan with ORNL. ORNL has sent a letter dated June 28, 1985 confirming their interest in this program. A request for Proposal and FIN Plan PIDS are being prepared.					
Problem/Resolution --- None					

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic Issue Assigned	-	-	03/28/85
Preliminary discussions of work plan with ORNL	-	-	04/10/85
ORNL provides preliminary outline of work plan	-	-	06/28/85

As of Fourth Quarter FY-85

## Generic Issue #67.7

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Request for proposal submitted to ORNL	09/85	-	-
Contract Incorporated in FIN Plan	09/85	-	-
Proposal Evaluated and Accepted	09/85	-	-
Issue Contract to ORNL	10/85	-	-
ORNL Issues Report on Recommendations for Improved Code Provisions and Action Plan	04/86	-	-
ORNL Issues Report Recommending ASME Code Endorsement and/or recommendations for Regulatory Guide Endorsement with Exceptions	06/87	-	-
Issue close-out memorandum from Director NRR recommending Code Endorsement or Endorsement with Exceptions	12/87	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
68	Safety/ High	Active-L1	NRR/DSI/ASB	J. Ridgely-	55225
Title -----		Loss of AFWS Due to AFW Steam HELB			
Work Authorization ---		Memorandum to R. J. Mattson from H. R. Denton dated April 24, 1984			
Contract Title -----		Not Yet Determined			
Contractor Name/ FIN No. -----		Not Yet Determined			
Work Scope -----		Not Yet Defined			
Affected Documents ---		Standard Review Plan			
Status -----		ASB is currently reevaluating the prioritization of this generic issue.			
Problem/Resolution ---		Not Yet Defined			
Technical Resolution -		Not Yet Defined			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Prepare Draft Task Action Plan	12/84	-	12/84
Incorporate Comments	03/85	11/85	-
Issue TAP - Approval by Director, DSI	05/85	12/85	-
Technical Resolution	01/86	-	-
Draft NUREG/CR	03/86	-	-
Staff review of draft NUREG/CR report	06/86	-	-
Value Impact Statement prepared (coordinated with SPEB and RRAB as applicable)	08/86	-	-

As of Fourth Quarter FY-85

GENERIC ISSUE #68

-2-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Final report prepared by Division (include SPEB preliminary comments and SRP revision)	10/86	-	-
Final report forwarded to DST for processing	11/86	-	-
CRGR Package to NRR Director for Review	11/86	-	-
OMB Clearance obtained concurrently if applicable	12/86	-	-
Review Package to CRGR	01/87	-	-
CRGR review and EDO approval completed	02/87	-	-
Federal Register Notice of Issuance of SRP for Public Comment	03/87	-	-
Division review of public comments completed	06/87	-	-
Comments incorporated and transmitted to DST for processing	06/87	-	-
Final CRGR package to NRR Director for review	07/87	-	-
Review Package to CRGR	08/87	-	-
CRGR review and EDO approval completed	09/87	-	-
Federal Register Notice of Issuance of SRP	10/87	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
70	Safety/ Medium	Active-L1	NRR/DSI/RSB	C. Liang	55226
Title -----		PORV and Block Valve Reliability			
Work Authorization ---		Memorandum to R. Mattson from H. R. Denton dated May 14, 1984.			
Contract Title -----		Estimation of Risk Reduction from Improved PORV (GI-70)			
Contractor Name/ FIN No. -----		BNL/A3807			
Work Scope -----		Identify fundamental safety requirements of the PORVs and block valves. PRAs will be used to determine core melt frequencies and risk contributed by malfunction of PORV and block valves associated with various accidents and plant protection features including SGTR events, LTOP, PORV-LOCA, RCS vents and BTP RSB 5-1. Based on the results from the PRA work, maximum risk reduction will be evaluated which will consequently identify the maximum amount of money that could be spent on PORV/block valve improvements. Potential improvements with the maximum amount of money that could be spent will be identified in the areas of design, equipment qualifications, QA and QC, maintenance programs, technical specifications, and testing requirements.			
Affected Documents ---		Develop new requirements for PORVs, incorporate into SRP or regulatory guide			
Status -----		Task action plan was issued on April 30, 1985. A report to the Commission on the status of staff work on Generic Issue 70 is in concurrence and should be issued in September 1985.			
Problem/Resolution ---		None			
Technical Resolution -					
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Draft Action Plan to Director, DSI		-	12/84	12/84	
Draft Action Plan approved by Director, DSI and forwarded to other Division Directors for comment		-	01/85	02/85	

## Generic Issue #70

-2-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Incorporate comments to Action Plan	-	03/85	03/28/85
Final Action Plan approved by Director, DSI and forwarded to DST	06/84	03/85	04/30/85
Assemble background information PORVs and block valves	09/85	10/85	-
Determine fundamental safety requirements of PORVs and block valves	12/85	-	-
Identify the potential improvement on PORV/block valves	11/85	-	-
Report to the Commission on status of the staff work on GI 70	07/85	09/85	-
Estimation of risk reduction from improved PORV/block valve reliability	01/86	-	-
Identify the recommended improvements based on value/impact assessment and other safety considerations	04/86	-	-
CRGR review package completed	03/86	-	-
Division Director approval of CRGR package. Package to other division directors for comments.	04/86	-	-
Other division comments incorporated.	04/86	-	-
CRGR Package to NRR Director for Review	05/86	-	-
OMB Clearance obtained concurrently if applicable	06/86	-	-
Review Package to CRGR	06/86	-	-

As of Fourth Quarter FY-85



## Generic Issue #70

-3-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR review and EDO approval completed	07/86	-	-
Federal Register Notice of Issuance of SRP for Public Comment	08/86	-	-
Division review of public comments completed	09/86	-	-
Comments incorporated and transmitted to DST for processing	10/86	-	-
Final CRGR package to NRR Director for review	11/86	-	-
Review Package to CRGR	12/86	-	-
CRGR review and EDO approval completed	01/87	-	-
Federal Register Notice of Issuance of SRP	02/87	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
75 Subtask 1	Safety/ NR	Active-L1	IE/DQAVT/QAB	M. Malloy	None
Title -----		Generic Implications of ATWS Events at the Salem Nuclear Plants - Quality Assurance			
Work Authorization ---		Memorandum from H. Denton to R. C. DeYoung, "Schedule for Resolving and Completing Generic Issue No. 75," dated October 19, 1983.  NRR FY-84 Operating Plan, (Appendix G).			
Contract Title -----		N/A			
Contractor Name/ FIN No. -----		N/A			
Work Scope -----		Revise Reg. Guide 1.33 "Quality Assurance Program Requirements (Operations)" to contain more detailed guidance for operational QA programs. The staff will consider backfitting this Reg. Guide revision. The work scope of the TMI Task item I.B.1.1(6) and I.B.1.1(7) has been subsumed by this generic issue subtask.			
Affected Documents ---		ANS-3.2 (1982)			
Status -----		During the past quarter, the staff prepared a detailed package for ELD review of the issue regarding obtaining additional public comments on the latest draft of the guide. (A more complex version of the guide underwent public comments in late 1980.) ELD completed a review of this issue and advised that obtaining additional public comments is a policy matter. Based on this advice, staff-efforts have turned to finalizing the draft guide, incorporating ELD's comments on the guide, and preparing a package for review by the Director, IE requesting a policy decision on obtaining additional public comments. The staff is recommending to coordinate the draft guide with interested industry groups and to make copies of the draft guide available to the public while the regulatory analysis is being completed in lieu of issuing the guide for a 60-day public comment period. The milestones schedule has been adjusted on the basis that the staff's recommendations will be adopted. The Director, IE decision on this issue may dictate additional changes to the milestones and to the schedule.			
Problem/Resolution ---		See Status above.			

## Generic Issue #75

-2-

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issued memorandum to W. Dircks, EDO subsuming Task Action Plan Item I.B.1.1 subtasks 6 and 7	-	07/84	07/26/84
Issued draft R.G. 1.33 for division comments	-	-	02/85
Prepare package for CRGR Review (include backfit issue study plan)	09/84	03/85	Deleted
CRGR Review completed	10/84	05/85	Deleted
ACRS Review completed	11/84	07/85	Deleted
Public comments on 3rd proposed Rev. 3	01/85	08/85	Deleted
Prepare Regulatory Analysis Package for CRGR Review	09/85	02/86	-
CRGR Review completed	10/85	04/86	-
ACRS Review completed	12/85	05/86	-
EDO Approval	01/86	05/86	-
Issue Federal Register Notice on issuance and availability of Rev. 3 to Regulatory Guide 1.33	02/86	07/86	-
Issue Close-out memo to Director, NRR	02/86	07/86	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
77	Safety/ High	Active-L1	NRR/DSI/ASB	A. Singh	52397
Title -----		Flooding of Safety Equipment Compartments by Back-Flow Through Floor Drains			
Work Authorization ---		Memorandum to R. J. Mattson from H. R. Denton dated September 8, 1983.  NRR FY-84 Operating Plan, (Appendix G).			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		This generic issue will evaluate operating plants licensed prior to issuance of the Standard Review Plan (SRP) for compliance with SRP Sections 9.3.3, "Equipment and Floor Drainage Systems" and 10.4.5, "Circulating Water System" regarding flooding protection in connection with backflow through drains. The work will consist of a re-review of the previous flooding information and evaluations for nine (9) representative plants. The cause of the flooding will not be evaluated, but this issue will account for flooding resulting from both internal and external sources. The need to backfit further protective measures against flooding of safety-related equipment compartments due to backflow through drainage systems will then be determined and the appropriate backfit package prepared.			
Affected Documents ---		Since the present Standard Review Plan criteria in this area is considered to be adequate, no documents will be affected.			
Status -----		Information is currently being collected to conduct a re-review of previous flooding information and evaluations for the nine selected representative plants.			
Problem/Resolution ---		Using FSAR drawings, floor and equipment drainage system drawings and previous reviews of flooding of safety equipment compartments at operating plants, determine the adequacy of the previous reviews for nine (9) plants. Where necessary, elicit from the licensee additional information regarding the measures taken to prevent flooding of safety-related equipment compartments due to backflow through the drainage systems.			

Technical Resolution - Since the present SRP is indicated as being acceptable this issue involves a determination that actual features in plants are adequate to assure protection against flooding of safety-related compartments through the floor and equipment drains. DL assistance may be required to assist in acquiring existing information and gathering information from licensees.

Estimate - 0.02 PSY in FY-85

<u>Task No.</u>	<u>Title/Milestones</u>	<u>Starting/Completion Date</u>
1	Select nine (9) plants to be included in the review effort.	Start - October 1984 Complete - November 1984
2	Review information and previous evaluations for nine (9) plants in order to assess the adequacy of existing protection provided against backflow through drains.	Start - November 1984 Complete - March 1985
3	Determine the need for and efficacy of various corrective measures that can be taken to detect, prevent and limit the consequences of backflow through the drainage systems.	Start - May 1985 Complete - August 1985
4	Prepare CRGR package for backfit of any proposed modifications.	Start - August 1985 Complete - August 1986

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue assigned to DSI.	09/83	-	09/08/83
Task Action Plan Approved by Director, DSI*	01/84	-	01/10/84
Incorporate Division Comments	-	09/84	09/09/84
Revise and Reissue Approval Work Plan	-	10/84	10/31/84
Task 1-Plant Selection.	10/84	-	11/84
Task 2-Information review.	12/84	09/85	-
Task 3-Assessment of backfit.	05/85	10/85	-
Task 4-Regulatory requirements development.	08/85	11/85	-

## Generic Issue #77

-3-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Value Impact Statement prepared.	08/85	11/85	-
Final report prepared, CRGR package approved by Director DSI. Sent to DST, DL and others for comment.	11/85	12/85	-
Comments from other Division Directors incorporated. Package sent to Director, NRR.	01/86	-	-
Package sent to CRGR.	02/86	-	-
CRGR review.	03/86	-	-
EDO approval. FR Notice issued for public comment.	03/86	-	-
Public comments incorporated. OMB Clearance, if needed.	05/86	-	-
Final CRGR package to Director, NRR.	06/86	-	-
Review package to CRGR.	07/86	-	-
CRGR review. EDO approval. Regulatory requirements issued.	08/86	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
79	Safety/ Medium	Active-1	NRR/DE/MEB NRR/DS/RSB	M. Hartzman	52140
Title -----		Unanalyzed Reactor Vessel Thermal Stress During Natural Convection Cooledown - PWR			
Work Authorization ---		Memorandum to R. H. Vollmer from H. R. Denton dated July 25, 1983.  NRR FY-84 Operating Plan, (Appendix G).			
Contract Title -----		Unanalyzed Reactor Vessel Thermal Stress			
Contractor Name/ FIN No. -----		BNL/Fin. No. A3822-5			
Work Scope -----		1. PWR NSSS will provide thermal-hydraulic, heat conduction and ASME III stress analysis of the reactor vessel. 2. RSB will verify acceptability of thermal analyses. 3. MEB will verify acceptability of stress analyses, evaluate results, and determine resolution of the issue.			
Affected Documents ---		Potential SRP change and/or NUREG reports.			
Status -----		Contractor has been obtained to perform review.			
Problem/Resolution ---		The task manager for this generic issue has been a full time dedicated reviewer for special licensing projects and due to his unavailability the task will be performed under a technical assistance contract.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Meeting with B&W to clarify issue.	11/83	-	03/84
Receipt of initial B&W analyses.	08/84	12/84	12/84
Prepare request for proposal for technical assistance contract	-	06/85	06/85
Initiate contract and commence review	-	09/85	09/85



## Generic Issue #79

-2-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Request for information from NSSS vendor	-	11/85	-
Response received from NSSS	-	02/86	-
Completion of audit calculations	-	05/86	-
Preliminary technical evaluation for staff review	-	07/86	-
Final technical evaluation completed	-	08/86	-
Close-out memorandum issued*	-	09/86	-

\*Note: It is anticipated that vendor analysis will demonstrate acceptability of current designs. The milestone schedule is based on this assumption. No changes in regulatory requirements will be needed providing this assumption proves valid. However, if new regulatory requirements are needed the Schedule will have to be expanded by 12 months.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
82	Safety/ Medium	Active-L1	NRR/DSI/AEB	M. Wohl	53347
Title ----- Beyond Design Bases Accidents in Spent Fuel Pools					
Work Authorization --- Memorandum to R. J. Mattson from H. R. Denton dated December 7, 1983					
NRR FY-84 Operating Plan, (Appendix G).					
Contract Title ----- Study of Beyond Design Basis Accidents in Spent Fuel Pools (Generic Issue 82)					
Contractor Name/ FIN No. ----- BNL/A3786					
Work Scope ----- Work Scope approved in Task Action Plan. See Memorandum from R. Mattson to T. Speis, dated February 2, 1984.					
<p>RES has verified the possibility of igniting zircaloy cladding in the event relatively fresh spent fuel is uncovered due to pool failure. The circumstances of ignition and propagation, and the consequences and likelihood of severe spent fuel pool accident will be assessed. Should the risk from such an accident be judged unacceptable on a cost/benefit basis, then preventative and mitigative measures must be devised and considered.</p> <p>EG&amp;G, through INEL &amp; RES, will perform hand calculations to assess temperature history of uncovered fuel, and the oxidation rate of zircaloy cladding to be expected. ASTPO will provide an estimate of fission product release, predicated upon the earlier computations.</p> <p>If assessments indicate that risk levels provide the bases for fixes with positive cost/benefits, corrective actions are to be pursued. The range of fixes which appear technically feasible include delaying storage of fresh assemblies, or the placement of fresh assemblies only near older ones. An SER will be prepared describing safety issues and cost/benefits analysis associated with alternative fixes. If fixes are warranted, a regulatory requirements package will be prepared for CRGR review and issuance.</p>					
Affected Documents --- Possible outcomes could include: Revise and issue Regulatory Guide 1.25 and SRP Section 15.7.4. Resolution may require STS changes affecting cool-down times					

## Generic Issue #82

- 2 -

prior to fuel storage and/or limitations on the location of fresh assemblies.

Status -----

Task Action plan approved via memorandum from R. Mattson to T. Speis, dated 02/02/84. A tentative agreement was reached with RES to initiate work on this generic issue. Milestones for this generic issue were revised in May 1984, based upon the results of preliminary work by RES. RES contractor's assessment was received 05/21/84. DSI has issued a contract for PRA study of fuel pool accidents and possible confirmatory experiments and analytical study of oxidation propagation. A preliminary assessment of the likelihood and consequences of loss of pool integrity for the most vulnerable design indicates that an expanded work scope for risk study should be developed. A preliminary expanded work scope is being developed and should be issued to BNL during the first quarter of FY 1986.

Problem/Resolution --- None

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic Issue 82 assigned to DSI.	12/83	-	12/07/83
Tentative agreement reached with RES to include under existing contractual effort, a task to determine whether zircaloy ignition and source term release are possible in the event of a spent fuel pool failure.	01/84	-	01/23/84
Task Action Plan approved by Director, DSI.	02/84	-	02/02/84
Receive RES Contractors' assessment.	04/84	-	05/21/84
RES Contractors' assessment sent to DL, DST, DE and DSI; CPB and DSI:ASB for review and comment.	05/84	-	05/05/84
Complete PID for inclusion of technical assistance support for GI 82 in FY-85 budget.	04/84*	06/84	06/84

As of Fourth Quarter FY-85

## Generic Issue #82

-3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue RFP	08/84	-	08/27/84
Issue tech assistance contract	09/84**	-	11/84
Complete Tasks 1 & 2a of tech assistance contract and receive contractor preliminary assessment of likelihood and consequences of loss of pool integrity for the most vulnerable design.	-	04/85	05/85
Prepare preliminary expanded work scope for risk study.	07/85	09/85	-
Evaluate contract results. Determine whether probabilities and phenomena warrant risk study. If not, prepare negative safety evaluation report. If so, prepare final PIDS for risk study.	08/85	09/85	-
Issue RFP for risk study.	10/85	-	-
Evaluate risk contract results. If negative, prepare SER. If positive, evaluate alternative regulatory requirements and prepare and prepare SER.	09/86	-	-
Prepare generic letter to licensees for consideration of CRGR. If necessary consider alternative closure possibilities	09/87	-	-

\*By Memorandum for T. Speis from R. Mattson dated April 20, 1984

\*\*By Memorandum for T. Speis from R. Mattson dated June 5, 1984.

As of Fourth Quarter: FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
83	Safety/ NR	Active-L1	NRR/DSI/METB	J. Hayes	42235
Title -----		Control Room Habitability (CRH).			
Work Authorization ---		Dircks letter to Denton, 8/15/83.			
Contract Title -----		In Plant Reviews on Control Room Habitability.			
Contractor Name/ FIN No. -----		Argonne National Laboratory/A2325			
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 report will be prepared summarizing results and providing recommendations.			
Affected Documents ---		10 CFR 50, Appendix A, GDC 2, 3, 4, 5, 19, 60; SRP 6.4, 9.4.1, 12.3, 6.5.1, 2.3, 2.2.1-2.2.3, 18, 9.5.1; RGs 1.78, 1.95, 1.29, 1.52, 1.101, 1.140; NUREG-0737, Item III.D.3.4, II.B.2, 10 CFR 50: 50.48, Appendix R to 10 CFR 50; NUREG-0700; NUREG-0737, Supplement 1.			
Status -----		A program of survey visits to a total of 12 plants was initiated in September 1985. Preliminary visits were made to three operating plants. Survey visits will be conducted at the end of September 1985 at each of these plants. Nine additional plants will be surveyed during FY 86. NUREG-1129 and its supplement will be published during the first quarter of FY 86.			
Problem/Resolution ---		<p>The original TAP for GI 83 contained a number of subtasks for implementation of the recommendations in the June 1984 Control Room Habitability Report. Work on implementation of these recommendations has been halted due to management concerns over 1) lack of resources to perform independent verification of acceptability of applicants' submittals and the degree of safety gain to be achieved, 2) reluctance to devote resources to updating SRPs and pertinent reg guides in the absence of new plant orders, and 3) reluctance to implement recommendations that might be interpreted as backfitting.</p> <p>The implementation of the recommendations in the June 1984 report is being reevaluated in light of the above concerns. A revised TAP will be prepared after the reevaluation is complete.</p>			

## Generic Issue #83

-2-

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Workshop on CRH	11/83	-	11/30/83
Award of Contract	02/84	-	01/26/84
Visit to Initial Plant	03/84	-	05/02/84
Report on CRH criteria to Director, NRR	-	-	06/01/84
Completion of contractor visits to operating and NTOL plants	-	-	08/23/84
Statement of Work written for generic studies	11/84	-	10/29/84
Request for proposal sent to potential contractor(s)	12/84	-	11/15/84
Receipt of proposal(s)	02/85	-	03/04/85
Initiate program to visit 12 additional Operating Plants	-	09/85	-
Reevaluate implementations of recommendations in EDO report	-	10/85	-
Revise TAP based on reevaluation and provide milestones necessary to resolve issues	-	10/85	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
84	Safety/ NR	Active-L1	NRR/DSI/RSB	V. Leung	TBP
Title -----		CE PORVs			
Work Authorization ---		Memorandum to R. M. Bernero from H. R. Denton dated February 27, 1985.			
Contract Title -----		N/A			
Contractor Name/ FIN No. -----		N/A			
Work Scope -----		To be provided.			
Affected Documents ---		To be provided.			
Status -----		Awaiting final resolution of USI A-45 with respect to PORV requirements.			
Problem/Resolution ---		To be provided.			
Technical Resolution -		To be provided.			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule to be developed following the completion of USI A-45 work.			



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
86	Safety/ NR	Active-L1	NRR/DE/MTEB	W. S. Hazelton	M07419
Title -----		Long Range Plan for Dealing with Stress Corrosion Cracking in BWR Piping			
Work Authorization ---		Memorandum to R. H. Vollmer from H. R. Denton dated October 3, 1984			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<p>Long Range Plan for dealing with pipe cracking is contained in N SECY-84-301; July, 1984</p> <p>(1) Issue NUREG-1061, Vol. 1 for comment</p> <p>(2) Issue NUREG-0313, Rev. 2</p> <p>(3) Issue generic letter incorporating NUREG-0313, Rev. 2</p> <p>(4) Pursue ASME Code changes</p>			
Affected Documents ---		NUREG-0313, Rev. 1			
Status -----		<p>Staff is preparing NUREG-0313, Rev. 2 for issuance; substantial rewrite will be needed as there is a separate technical document and the public comments on this technical document (NUREG-1061 Vol. 1) must be factored into the revision. NUREG-1061 Vol. 1 was prepared by the task group on pipe cracks of the piping review committee.</p>			
Problem/Resolution ---		<p>The reason for the schedule slippage has been due principally to the difficulty the ASME Code Committee was having in resolving controversies involving the low toughness of certain type weldments originally raised by Prof. Paris in his letters to Commissioner Roberts and the staff. The staff's proposed acceptance criteria were based upon ASME Section XI Paragraph IWB 3640, which was not endorsed by NRC because of this issue of weld low toughness. The staff worked closely with the Code Committee and a resolution was achieved during the Code meeting that took place in June 1985.</p>			
Technical Resolution -		Resolution available as described in work scope.			

## Generic Issue #86

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
SECY 84-301, NUREG 1061 to Commission	07/84	-	07/30/84
Publish NUREG-1061, Vol. I	09/84	-	09/20/84
End of Comment Period	11/84	-	11/7/84
Complete preparation of Draft NUREG-0313, Rev. 2	01/85	07/85	09/85
Proposed implementation plan and staff position in Draft NUREG-0313, Rev. 2, circulated for NRR Div. Dir. review	-	09/85	-
Proposed implementation plan and staff position in Draft NUREG-0313, Rev. 2, reviewed and endorsed by CRGR.	-	10/85	-
Draft NUREG-0313, Rev. 2, issued for public comment.	-	11/85	-
Draft NUREG-0313, Rev. 2, revised to reflect public comments.	-	02/86	-
Commission Paper on staff implementation plan and staff position (NUREG-0313, Rev. 2) reviewed and endorsed by CRGR.	-	03/86	-
Commission Paper on staff implementation plan and staff position (NUREG-0313, Rev. 2) submitted for approval.	-	04/86	-
Issue Generic Letter and close-out memorandum	05/85	04/86	-

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
91	Safety/ NR	Active-L1	NRR/DL/TF	TBP	TBP
Title -----		Main Crankshaft Failure in Transamerica DeLaval			
Work Authorization ---		Memorandum To R. Bernero From H. Denton dated July 8, 1985			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			

Affected Documents --- To Be Provided Later

Status ----- To Be Provided Later

Problem/Resolution --- To Be Provided Later

Technical Resolution -

Milestones

Milestones necessary to resolve this issue are being developed.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
93	Safety/ High	Active-L1	NRR/DSI/ASB	T. Chandrasekaran	56291
Title -----		Steam Binding of Auxiliary Feedwater Pumps			
Work Authorization ---		Memorandum to R. M. Bernero from H. R. Denton dated October 19, 1984			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<p>Generic preventive maintenance measures that may have to be implemented at all PWRs to reduce the potential for back-leakage of steam and hot water to the Auxiliary Feedwater (AFW) system from the steam conversion system via isolation valves in the AFW system will be developed. It is expected that these measures will reduce the likelihood of steam binding of the AFW pump(s) and possible common mode failure of the AFW system by ensuring that the valves perform their intended function. In addition the following will be determined: (1) The proper frequency of leaktesting for the appropriate isolation valves in the AFW system as part of the operability requirements for the AFW system. (2) The optimum method of performing surveillance of the AFW system temperature. (3) The necessary corrective actions to be taken (suggestions from industry groups, licensees and NRC staff will be solicited in this regard). (4) The hardware modifications that may be required to implement leaktesting of the AFW system isolation valves, surveillance of the AFW system temperature and the performance of necessary corrective operator actions. (5) The acceptable interim measures to be adopted until the modifications are implemented, if hardware modifications are needed and if backfit is necessary for implementing the recommended preventive measures.</p>			
Affected Documents ---		Standard Technical Specifications (STS) change for NSSS vendors. Standard Review Plan Section 10.4.9 acceptance criteria relating to the AFW system is considered to be adequate so it may not need any revision in this regard.			
Status -----		Some staff and industry effort relating to the potential problem of steam binding of the AFW pumps has already been completed. Previous work on this problem is detailed in the work plan.			

Generic Issue #93

-2-

Status (continued)----- ASB has received and incorporated comments on the draft TAP and plans to pursue resolution of this issue on an expedited schedule. The draft TAP assumes that IE will issue a Bulletin on this subject. IE has completed an informal survey of licensees, through the resident inspectors, to determine if a Bulletin is required to be finalized and issued by the end of September 1985. If a Bulletin is not issued, it will require reworking of the TAP and a considerably longer period for resolution of the issue.

Problem/Resolution --- None

Technical Resolution -

<u>Task No.</u>	<u>Title/Milestones</u>	<u>Starting/ Completion Date</u>
1	<u>Development of Guidelines</u> - Solicit recommendations from interested interagency staff such as resident inspectors, ORAB staff, MEB staff, etc. for resolving the identified concerns in this regard. Develop guidelines based on the above recommendations, summary of reported backleakage events into the AFW system, findings and recommendations given in the AEOD study, and recommendations given in the INPO SOER and the proposed IE Bulletin for resolving this generic issue.	Start-August 1985 Complete-October 1985
2	<u>Evaluation of Plant-Specific Responses</u> - Using the guidelines developed in Task No. 1, evaluate plant specific information obtained from IE Temporary Instruction 25/5-67 and proposed IE Bulletin concerning actions taken by individual licensees relating to preventive maintenance measures, surveillance programs for monitoring the AFW system fluid conditions, and performance of corrective operator actions when needed.	Start-November 1985 Complete-January 1986
3	<u>Development of Plant-Specific Requirements</u> - Based on the plant specific review identified in Task No. 2, develop additional and/or alternative generic or plant specific modifications, procedures, and revisions to plant TS as necessary. Additionally, develop interim measures as necessary to be adopted for the applicable plants until the proposed backfits are completed.	Start-February 1986 Complete-April 1986
4	<u>Prepare Regulatory Requirements Package</u> -	Start-May 1986 Complete-April 1987

## Generic Issue #93

-3-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue assigned to DSI	10/84	-	10/19/84
Prepare Draft Task Action Plan (TAP)	12/84	-	12/84
Draft TAP approved by DSI Director	12/84	-	01/22/85
Incorporate comments by various Divisions	02/85	06/85	06/85
Revise and reissue approved TAP	07/85	-	06/25/85
Task 1 - Development of guidelines for resolving the identified concerns relating to this generic issue	10/85	-	-
Task 2 - Evaluation of plant specific information for adequacy of procedures and actions dealing with this concern using the guidelines developed in Task No. 1	01/86	-	-
Task 3 - Generic or plant specific preventive maintenance measures, surveillance requirements and corrective actions including cost-effective backfits and TS revisions when needed determined based on evaluation of plant specific information referred to in Task No. 2.	04/86	-	-
Task 4 - Regulatory Requirements Development	02/86	-	-
Value Impact Statement prepared	05/86	-	-
Final report prepared, CRGR package approved by Director, DSI. Sent to DST, DL and others for comment	07/86	-	-
Comments from other Division Directors incorporated. Package sent to Director, NRR	09/86	-	-

As of Fourth Quarter FY-85

## Generic Issue #93

-4-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Package sent to CRGR	10/86	-	-
CRGR review and EDO approval completed	11/86	-	-
Federal Register Notice of issuance of regulatory requirements for PWRs in this regard for public comments	12/86	-	-
Public comments incorporated. OMB clearance, if needed	02/87	-	-
Final CRGR package to Director, NRR	03/87	-	-
Review package to CRGR	04/87	-	-
CRGR review and EDO approval completed.	05/87	-	-
Issue regulatory requirements for PWRs (generic letter if required).	06/87	-	-

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
94	Safety/ High	Active-L1	NRR/DSI/RSB	E. Lantz	59465
Title -----		Additional Low-Temperature-Overpressure Protection For Light Water Reactors			
Work Authorization ---		Memorandum To R. Bernero From H. Denton dated July 23, 1985			
Contract Title -----		None*			
Contractor Name/ FIN No. -----		None*			
Work Scope -----		<p>Operating experience shows that the changes needed to reduce the probability of low temperature overpressurizations in reactor coolant systems (RCS) are:</p> <ol style="list-style-type: none"> <li>(1) Technical Specifications that will reduce the probability of either train of a low temperature overpressure protection system (LTOPS) from being inoperable when the RCS is in a "Water Solid" condition.</li> <li>(2) Changes to allow spring-loaded, pressure-relief valves in the residual heat removal systems (RHRS) to prevent low temperature overpressurizations.</li> </ol> <p>The Scope of this task is to:</p> <ol style="list-style-type: none"> <li>(1) Develop model Technical Specifications for item 1.</li> <li>(2) Develop specific ways item 2 could be realized and evaluate the change in public risk associated with each.</li> <li>(3) Put the results of this work in a generic letter to affected licensees.</li> </ol>			
Affected Documents ---		Branch Technical Position RSB 5-2			
Status -----		To Be Provided Later			
Problem/Resolution ---		None			
Technical Resolution -					

\*The results of the risk assessment contract, which is to be issued for Generic Issue #99, will also be used for this generic issue.

## Generic Issue #94

-2-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic Issue #94 assigned to RSB/DSI/NRR	-	-	7/23/85
Draft of Task Action Plan Completed	11/85	-	-
Task Action Plan approved by DSI	12/85	-	-
Task Action Plan to Director of DE, DL, HFS, and AEOD	01/86	-	-
Final Task Action Plan approved by Director, DSI and forwarded to DST	02/86	-	-
Model Technical Specifications developed	03/86	-	-
Received results of PRA analyses for Generic Issue #94	03/86	-	-
Draft report completed	04/86	-	-
CRGR package prepared	05/86	-	-
CRGR package approved by Director, DSI and sent to other Divisions for comment	06/86	-	-
Package sent to CRGR	07/86	-	-
Issue close-out memorandum from Director NRR to DL (Generic Letter to Licensees and changes to Branch Technical Positions RSB 5-2)	10/86	-	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
99	Safety/ High	Active-L1	NRR/DSI/RSB	TBP	TBP
Title -----		RCS/RHR Suction Line Interlocks on PWRs			
Work Authorization ---		Memorandum To R. Bernero From H. Denton dated August 13, 1985			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			

Affected Documents --- To Be Provided Later

Status ----- To Be Provided Later

Problem/Resolution --- To Be Provided Later

Technical Resolution -

Milestones

Milestones necessary to resolve this issue are being developed.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
101	Safety/ High	Active-L1	NRR/DSI/RSB	K. Desai	57749
Title -----		BWR Water Level Redundancy			
Work Authorization ---		Memorandum to R. M. Bernero from H. R. Denton dated May 6, 1985.			
Contract Title -----		BWR Water Level Redundancy			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		Perform a detailed survey of all BWR plants to determine types of water level instrumentation. Compile failure data of instrument piping leaks/break and instrument failures for all BWR plants from LERs. Perform simplified risk analyses postulating instrument piping leaks, single failure in instruments and feed water control system failure to determine which BWR plants would have problem with existing water level instrumentation. Make recommendations to resolve this issue.			
Affected Documents ---		To Be Provided Later			
Status -----		We have discussed our work plan with EG&G (Idaho National Engineering Laboratory). EG&G will provide preliminary cost estimate by June 7, 1985.			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic Issue 101 assigned to RSB/DSI/NRR	-	-	05/06/85
Preliminary Discussion of our work plan with EG&G	-	-	05/24/85
EG&G will provide preliminary cost estimate of work plan	06/85	-	06/11/85
Develop work plan and contract proposal	06/85	-	07/26/85

As of Fourth Quarter FY-85

## Generic Issue #101

-2-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Draft work plant to Director, DSI	06/85	-	08/01/85
Incorporate Comments to work plan	09/85	-	-
Final work plan approved by Director, DSI and forwarded to DST	09/85	-	-
Issue contract to EG&G	10/85	-	-
Final report from EG&G to NRR including Value Impact Analysis	03/86	-	-
Final report prepared, CRGR package approved by Director, DSI. Sent to other Divisions for comment	05/86	-	-
Comments from other Division Directors incorporated. Package sent to Director, NRR	06/86	-	-
Package sent to CRGR	07/86	-	-
Issue close-out memorandum from Director, NRR to DL (Generic Letter to BWR Licensees)	09/86	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
103	Safety/ NR	Active-L1	NRR/DE/EHEB	Don Chery	TBP
Title -----		Design for Probable Maximum Precipitation			
Work Authorization ---		Memorandum to J. P. Knight from H. R. Denton dated September 4, 1985			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		Revise Standard Review Plan (SRP) Sections 2.4.2 and 2.4.3 incorporating the most recent National Weather Service procedures for determination of Probable Maximum Precipitation (PMP). Prepare regulatory analysis (value/impact) for use of most recent PMP determination. Prepare a package for review by the Committee for the Review of Generic Requirements. Develop recommendations regarding backfit application of the most recent PMP determinations. Obtain necessary review and approvals, then publish Revision 3 of SRP Sections 2.4.2 and 2.4.3.			
Affected Documents ---		Standard Review Plan Sections 2.4.2 and 2.4.3			
Status -----		Draft SRP revisions issue for division comments			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
- Identification of Potential Generic Requirement Concerning Design for PMP/Memorandum V. Stello to H. R. Denton	-	-	05/08/84
Prepare draft revisions of SRP Sections 2.4.2 and 2.4.3	-	-	07/85
CRGR package sent DST, DL, DSI, and PPAS for Division Review	-	-	07/12/85
CRGR package reviewed by Divisions	-	-	08/22/85*

\*Comments by DSI not received as of September 23, 1985.

As of Fourth Quarter FY-85

## Generic Issue #103

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR package reviewed and approved by Director NRR	11/85	-	-
CRGR review and approval	12/85	-	-
Milestones on Backfit Issue to be provided	12/85	-	-
Federal Register Notice of Issuance of Rev. 3 SRP Section 2.4.2 and 2.4.3 for public comment.	01/86	-	-
CRGR package revised incorporating public comment	04/86	-	-
Revised CRGR package reviewed and approved by CRGR	05/86	-	-
Federal Register Notice Issuing SRP Rev. 3 Sections 2.4.2 and 2.4.3	07/86	-	-

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
105	Safety/ High	Active-L1	NRR/DSI/RSB	G. Thomas	57979
Title -----		Interfacing System LOCA at BWRs			
Work Authorization ---		Memorandum to R. Bernero From H. Denton dated June 11, 1985			
Contract Title -----		Interfacing Systems LOCA at BWRs			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		Perform a detailed design review of all systems penetrating RCPB. Review low pressure/high pressure interface valves arrangement and categorize different designs into groups. Perform an LER search to determine causes of interfacing systems LOCA. Find solutions to prevent interfacing systems LOCA. Perform PRA to determine core melt frequencies and risk contributed by interfacing systems LOCA. Develop new licensing criteria if necessary for the generic resolution.			
Affected Documents ---		To Be Provided Later			
Status -----		We have discussed our work plan with BNL. BNL will provide preliminary cost estimate by July 31, 1985.			
Problem/Resolution ---		To Be Provided Later			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Generic Issue 105 assigned to RSB/DSI/NRR	-	-	06/11/85
Preliminary Discussion of our work plan with BNL	-	-	06/17/85
BNLs preliminary cost estimate of work plan	09/85	-	-
Develop work plan and contract proposal	09/85	-	-

As of Fourth Quarter FY-85

## Generic Issue #105

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Draft work plan to Directors, DSI, DE, DL, HFS, and AEOD	09/85	-	-
Incorporate Comments into work plan	10/85	-	-
Final work plan approved by Director, DSI and forwarded to DST	10/85	-	-
Issue contract to BNL	10/85	-	-
Final report from BNL to NRR including Value Impact Analysis	07/86	-	-
Final report prepared, CRGR package approved by Director, DSI. Sent to other Divisions for comment	12/86	-	-
Comments from other Division Directors incorporated. Package sent to Director, NRR	01/87	-	-
Package sent to CRGR	02/87	-	-
Issue close-out memorandum from Director, NRR to DL (Generic Letter to BWR Licensee or SRP Changes ETC)	07/87	-	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
119	Regulatory Impact/NR	Active-L1	RES	TBP	TBP
Title -----		Piping Review Committee Recommendations			
Work Authorization ---		Memorandum to R. Minogue from H. Denton dated September 10, 1985			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			
Affected Documents ---		To Be Provided Later			
Status -----		To Be Provided Later			
Problem/Resolution ---		To Be Provided Later			
Technical Resolution -					
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Milestones necessary to resolve this issue are being developed. -					

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
A-29	Safety/ Medium	Active-L1	NRR/DSI/ASB	A. Singh -	20465
Title -----		Nuclear Power Plant Design for the Reduction of Vulnerability to Industrial Sabotage			
Work Authorization ---		NRR FY84 Operating Plan, (Appendix G)			
Contract Title -----		Evaluation of Methods for Reduction in Vulnerability to Sabotage			
Contractor Name/ FIN No. -----		Pacific Northwest Laboratory/FIN No. B2548 Brookhaven National Laboratory/FIN No. A-3767			
Work Scope -----		<p>Generic Issue A-29 deals with the effectiveness of different nuclear power plant system designs to reduce the vulnerability to sabotage and tampering. Design changes to plant lay-outs and systems, and damage-control methods will be evaluated to determine the potential for reducing the vulnerability to sabotage and tampering. The issue consists of two main tasks. Task 1 will assess new plant designs to determine their vulnerability to sabotage and tampering and assess the decrease in vulnerability which could be provided by alternatives identified in previous research work. Task 2 includes all operating reactors and reactors under construction. The vulnerability of existing reactors will be characterized generically and possible alternatives for reduction of the vulnerability will be evaluated. For both tasks, plant designs to both protect against and mitigate the effects of sabotage and tampering will be considered.</p> <p>The Auxiliary Systems Branch (ASB) will provide overall management of the program to resolve this generic issue. ASB will require the assistance of other NRR divisions (DL and DHFS) and other NRC offices (NMSS and RES). Additionally, ASB will utilize technical assistance contracts. The contractor will develop the methodology for quantifying the plant vulnerability to sabotage and tampering. The contractors will also develop the methodology for quantifying the relative reductions in vulnerability provided by various plant design changes or damage control measures.</p>			
Affected Documents ---		Not Yet Determined			

## Generic Issue #A-29

-2-

Status ----- Both BNL and PNL have obtained subcontractors and have started the methodology development. The anticipated completion dates are May 1985 for the methods and September 1985 for the final reports. PNL will analyze 25 design alternatives which have been forwarded to the lab. This effort will be completed by the end of fiscal year 1985.

Problem/Resolution --- ASB resources for A-29 total 14 PSW for FY-85. Impacted OR actions and Casework will be completed on overtime, pending ongoing DSI management review of resources assigned to generic issues. By memo dated 2/11/85 a revised TAP was forwarded to cognizant NRR, NMSS and RES divisions that extended the completion date for A-29 from FY1986 to FY1987. This extension is due to contractor delay and turnover in ASB staff. A memo providing more detailed justification for the schedule change and requesting Office Director approval is in preparation.

Technical Resolution - The approach for resolution of this issue is outlined below. Details of the approach for resolution are contained in the Task Action Plan.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
TAP issues for comment	-	-	08/26/83
Final TAP Issued	01/84	-	01/14/84
Contractor Support			
a. Proposals Solicited	02/01/84	-	02/02/84
b. Proposal Evaluated	03/84	-	08/27/84
c. Contract Issued	04/84	-	08/27/84
Task 1 - Evaluate New Plant Designs			
1.1 - Evaluate the vulnerability of the standard plant designs to sabotage and tampering			
a. Start Subtask	08/83	-	09/83
b. Complete GESSAR II review	02/84	09/85	09/85
c. Complete Westinghouse APWR	06/84	01/86	-
1.2 - Evaluate alternative designs (plant layouts and systems) for reducing the vulnerability to sabotage and tampering			

As of Fourth Quarter FY-85

## Generic Issue #A-29

-3-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
a. Start	09/83	-	09/83
b. Complete	06/84	10/85	-
1.3 - Review the foreign plant experiences and designs			
a. Start	01/84	-	09/84
b. Complete	04/84	-	01/85
1.4 - Develop a decision rationale for ranking acceptance criteria			
a. Start	02/84	09/85	-
b. Management review	04/84	12/85	-
c. Complete	05/84	01/86	-
Task 2 - Evaluate Existing Plants			
2.1 - Evaluate a sample of operating reactors to determine their vulnerability to sabotage and tampering			
a. Start	04/84	11/85	-
b. Complete	11/84	12/85	-
2.2 Evaluate alternative plant designs and damage control measures for reducing the vulnerability to sabotage and tampering			
a. Start	09/84	11/85	-
b. Complete	01/85	11/85	-
2.3 - Develop a decision rationale for ranking proposed changes			
a. Start	01/85	11/85	-
b. Management review	03/85	12/85	-
c. Complete	04/85	01/86	-
2.4 - Prepare a regulatory package			
Value Impact Statement prepared	-	05/86	-

As of Fourth Quarter FY-85

## Generic Issue #A-29

-4-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Final report prepared, CRGR package approved by Director, DSI. Sent to DST, DL and others for comment	-	06/86	-
Comments from other Division Directors incorporated. Package sent to Director, NRR	-	07/86	-
Package sent to CRGR	-	08/86	-
CRGR review and EDO approval completed	-	09/86	-
Federal Register Notice of issuance of regulatory requirements for PWRs in this regard for public comments	-	09/86	-
Public comments incorporated. OMB clearance, if needed	-	11/86	-
Final CRGR package to Director, NRR	-	01/87	-
Review package to CRGR	-	02/87	-
CRGR review and EDO approval completed	-	03/87	-
Federal Register Notice of Issuance of regulatory requirements	-	05/87	-

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
A-30	Safety/ High	Active-L1	NRR/DSI/PSB	A. S. Gill	04587 20470
Title -----		Adequacy of Safety-Related DC Power Supplies			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G)			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<p>The staff's initial study of the adequacy of DC power supplies was documented in NUREG-0305, "Technical Report on DC Power Supplies in Nuclear Power Plants," (July 1977). This study recommended the performance of a quantitative reliability assessment. This assessment was performed and documented in NUREG-0666, "A Probabilistic Safety Analysis of DC Power Supply Requirements for Nuclear Power Plants," (April 1981). With the aid of a technical assistance contract, the NUREG-0666 recommendations are being converted into proposed requirements.</p>			
Affected Documents ---		Issue information notice			
Status -----		<p>Implementation guidelines were developed and discussed with the ACRS on 03/82 and 09/82. A review meeting was held with the Director, NRR on 09/30/83 to go over the CRGR package. As a result of this meeting, the Director, NRR requested that four additional issues be considered prior to transmitting the A-30 package to CRGR. It was anticipated that this new work would take approximately four months to complete. A revised schedule was approved by the Director, DSI.</p> <p>As a result of a meeting between INPO and the Director, DSI and the AD/CPS on 12/14/83, NRC agreed to review current INPO efforts regarding DC power supply systems to determine the acceptability of this guidance to licensees in lieu of issuing separate A-30 requirements. NRC review resulted in determining that INPO guidance was not sufficient and that the A-30 CRGR package would go forward.</p> <p>CRGR package sent to Director, NRR on 01/31/84. However, additional modifications were requested. Director, NRR approval obtained on 03/08/84. As a result of this change, all follow-on milestones were changed by one month.</p>			

## Generic Issue #A-30

- 2 -

The CRGR met to review NRR recommendations on Generic Issue A-30 on 5/9/84. The CRGR requested that revisions be made to the cost/benefit section of the package. Additional work was done by PSB and RRBR to revise the cost/benefit package. The draft revised cost/benefit package was circulated within DST, RES and PSB for review and comments. Comments were forwarded to RRBR on January 29, 1985. RES is now preparing a final revised cost/benefit package scheduled to be provided to PSB/DSI in September 1985. Schedule of milestones for resolution of this generic issue will be revised when the final revised cost/benefit package is received from RES.

## Problem/Resolution ---

The cost/benefit revisions requested by CRGR involve performing a more detailed probabilistic risk assessment (PRA) instead of the single minimum DC power system of NUREG-0666 study. This additional work has been conducted by RRBR of RES, GIB of DST and PSB. Because of key personnel turnover, RRBR was unable to complete this work as scheduled. Also, a peer review of the cost/benefit analysis was added to ensure that it was consistent with NRC guidelines. The peer review of the revised draft cost/benefit package has been completed and comments sent to RRBR of RES on January 29, 1985. Because of key personnel turnover again, RRBR is unable to prepare the final cost/benefit package as scheduled. The milestones for resolution of this generic issue will be revised when the final revised cost/benefit package is received from RES.

## Technical Resolution -

NUREG-0666 presents the technical resolution of this generic issue.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
NRC Issue NUREG-0305.	-	-	07/77
NRC Issue NUREG-0666.	-	-	04/81
Acceptance criteria and implementation guidelines prepared from NUREG-0666 recommendations are incorporated into SRP Section 8.3.	-	-	02/83
Technical resolution package for CRGR review complete	-	-	02/28/83
Division Director approval of CRGR package. Package sent to DST & DL.	04/83	-	04/08/83
DST & DL comments incorporated. Package sent to Director, NRR.	05/83	07/83	08/12/83

As of Fourth Quarter FY-85

## Generic Issue #A-30

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Package returned to incorporate new tasks requested by Director, NRR.	-	-	09/20/83
Package sent to Director, NRR.	-	01/84	01/31/84
Director NRR review complete. Package sent to CRGR.	06/83	02/84	03/08/84
CRGR review complete.	07/83	04/84*	05/09/84
Transmitted memorandum to DST and RES/RRAB requesting concurrence on their input schedule.	-	-	09/07/84
Memorandum to RES/RRAB requesting completion date	-	-	04/27/85
Second CRGR pkg cost/benefit revisions complete (RRBR)	-	09/85**	-
NRR Divisions review complete	-	11/85	-
Director NRR review complete	-	12/85	-
Second package sent to CRGR	-	01/86	-
Issue information notice to licensees	-	02/86	-
Second CRGR review complete	-	-	-
ACRS review complete.	07/83	-	NA
EDO approval.	09/83	-	NA
FR Notice issued for public comment on proposed SRP Change.	09/83	-	NA
OMB Clearance, if applicable.	12/83	-	NA

\*By Memorandum for T. Speis from R. Mattson dated April 24, 1984.

\*\*Milestone Dates are based on receipt of the final value impact package for GI A-30 from RRBR/RES by September 1985.

As of Fourth Quarter FY-85

## Generic Issue #A-30

- 4 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Division incorporation of public comments.	12/83	-	NA
Director, NRR review complete.	01/84	-	NA
CRGR review complete.	02/84	-	NA
EDO approval.	03/84	-	NA
FR Notice of issuance of SRP change.	04/84	-	NA

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-5	Safety/ Medium	Active-L1	NRR/DE/SGEB	S. B. Kim	07419
Title -----		Buckling Behavior of Steel Containments			
Work Authorization ---		NRR FY-84 Operating Plan, (Appendix G)			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		A containment structure is an asymmetrical shell due to large penetrations. The current staff position allows use of a symmetrical shell model for buckling strength evaluation. To compensate for the uncertainty in this symplifying assumption, the staff requires a reduction factor of 25% on buckling strength. However, there is no guidance given by the staff as to what constitutes proper reinforcing. There are widely varying methods used. A combined analytical experimental program is needed to address this problem.			
Affected Documents ---		SRP Section revision.			
Status -----		Results from a technical assistance contract and input from RES were used to prepare a draft staff position. The staff previously planned to develop an SRP revision based on this position. It is now recognized that this position is not sufficiently complete for general use in licensing. Development of a technical resolution for this generic issue will require some basic research to be conducted. Research agreed to redirect related research on buckling and this research will form the basis for revising the SRP.			
Problem/Resolution ---		See Status above.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Results received from RES	-	10/85	-
Proposed SRP revision prepared.	06/85	01/86	-
Value/Impact Statement prepared.	07/85	05/86	-

## Generic Issue #B-5

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Final CRGR package forwarded to DST for processing.	09/85	07/86	-
NRR Director Review completed.	10/85	10/86	-
Review Package to CRGR.	11/85	11/86	-
CRGR review completed.	12/85	12/86	-
EDO approval.	01/86	12/86	-
Federal Register Notice of Issuance of Proposed SRP Raised for Public Comment.	02/86	01/87	-
OMB Clearance, if applicable.	03/86	02/87	-
Division review of public comments completed.	05/86	04/87	-
NRR Director review completed.	06/86	06/87	-
CRGR review completed.	07/86	07/87	-
EDO approval.	08/86	08/87	-
Federal Register Notice of Issuance of SRP	09/86	09/87	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-6	Safety/ High	Active-L1	NRR/DE/MEB	S. Hou	20179
Title -----		Loads, Load Combinations, Stress Limits			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G)			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<p>This generic issue is complete except for decoupling the LOCA and SSE events. The decoupling involves developing a more rational approach to the design of components and supports to withstand a spectrum of events, and events in combination, the effects of low probability postulated events of varying probabilities, such as SSE plus LOCA, this plan will proceed with the necessary action to decouple the SSE-LOCA load combinations using probabilistic methods. One possible alternative approach is to reduce the postulated pipe break area using deterministic fracture mechanics procedures.</p>			
Affected Documents ---		SRP 3.9.3.			
Status -----		<p>An on-going research program for Westinghouse and CE plants has completed the investigation of the probability of having a LOCA induced directly by seismic loads, and found it to be <math>7 \times 10^{-12}</math>/year for the large LOCA and <math>4 \times 10^{-12}</math>/year for the small LOCA. Probability to have LOCA induced indirectly by structure or support failures under seismic loads was found to be <math>10^{-7}</math>/year. Research results and decoupling hypothesis were discussed in ACRS meetings on 03/29/83 and 06/09/83. At these meetings, the staff proposed a position which would decouple SSE and LOCA for all PWR primary loops based on the results of the research program. The ACRS letter of 06/14/83 concludes that the technical work supports decoupling for mechanical components, which include instrumentation and controls, and their supports. Similar research work for decoupling of LOCA and SSE for B&amp;W and GE plants is proceeding and is expected to conclude in early 1986. Preliminary indications are that pipe rupture probabilities in GE reactor coolant loops are substantially greater than in any of the PWR vendors. In addition, a separate CRGR package on a limited application of the leak-before-break hypothesis for PWR main coolant loops in 16 Westinghouse owners group plants based on deterministic fracture mechanics analysis has been approved under Generic Letter 84-04 issued by DL.</p>			



## Generic Issue #B-6

- 2 -

Problem/Resolution --- Revisions of SRP 3.9.3 is being performed by RES in accordance with the "Plan to Implement the PRC Recommendations." This revision will only permit decoupling of SSE and LOCA for PWRs. A recommendation regarding decoupling for BWRs will be made by RES at the conclusion of the research study on GE plants. If this recommendation indicates that decoupling on certain classes of BWRs should be permitted by the SRP, the milestone schedule will have to be revised.

Technical Resolution - For decoupling of SSE & LOCA loads, the probability of a LOCA occurrence due to an earthquake was under review to provide the probabilistic technical basis for the revision of SRP 3.9.3. In addition, a parallel effort has been proceeded to utilize the results of the on-going leak-before-break studies to justify deterministically the reduction of the postulated pipe break area. The technical resolution has been identified.

The NRC Piping Review Committee evaluated all the research results and provided recommendations on needed regulatory actions on licensing requirement changes as a part of an overall resolution to nuclear piping design problems. At request of the Committee, ELD has confirmed that change to GDC 2 is not required.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issued NUREG-0484 which contain guideline or dynamic response combination methodology.	-	-	05/80
Revised SRP Section 3.9.3 to incorporate criteria and guidelines for load combination's and stress limits.	-	-	07/81
ACRS subcommittee on leak before break and decoupling.	-	-	03/29/83
ACRS full Committee meeting	05/83	-	06/09/83
Piping Review Committee to provide recommendation for decoupling.	-	02/85	02/85
Confirmation from ELD that change to GDC 2 not required.	-	04/85	04/85

As of Fourth Quarter FY-85

## Generic Issue #B-6

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Piping review committee final report containing recommendations for decoupling, issued to EDO.	-	-	5/85
Completion of draft SRP 3.9.3 revision	-	-	09/85
Completion of regulatory analysis for SRP 3.9.3 revision	-	12/85	-
CRGR review	-	01/86	-
Publication of Federal Register Notice	-	02/86	-
Public comment period closes	-	04/86	-
Evaluation of public comments completed	-	06/86	-
CRGR review of revised regulatory package completed	-	08/86	-
EDO approval	-	09/86	-
Final Federal Register Notice of Issuance of SRP revision	-	10/86	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-17	Safety/ Medium	Active-L1	NRR/DHFS/PSRB	None	None
Title ----- Criteria for Safety Related Operator Actions					
Work Authorization --- NRR FY-84 Operating Plan (Appendix G)					
Contract Title ----- To Be Determined					
Contractor Name/ FIN No. ----- To Be Determined					
Work Scope ----- The work scope and milestones necessary to complete this are provided in HF-01 issue HFPP-4.3.					
Affected Documents --- To Be Provided Later					
Status ----- To Be Provided Later					
Problem/Resolution --- To Be Provided Later					
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Milestone necessary to complete this issue are provided in HF-01 issue HFPP-4.3.			

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-55	Safety/ Medium	Active-L1	NRR/DE/MEB	F. Cherny	48771
Title -----		Improve Reliability of Target Rock Safety-Relief Valves			
Work Authorization ---		NRR FY-84 Operating Plan, (Appendix G)			
Contract Title -----		None			
Contractor Name/ FIN No. -----		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 solved. 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.			
Affected Documents ---		None			
Status -----		A report was submitted by the Owners Group (OG) in June 1984 that was expected to resolve the issue. A subsequent Boston Edison report on experience at Pilgrim indicated that the recommendations of the OG report were not sufficient to resolve this issue. The OG has recognized the need to pursue this problem further and will be evaluating new materials which can eliminate excessive setpoint drift. They have assembled a material selection panel composed of experts in both materials technology and nuclear valve design. Selected materials will be tested in several plants during upcoming fuel cycles. The results of this effort will be evaluated by the OG over about a two year period.			
Problem/Resolution ---		The resolution of this issue is aimed at increasing the reliability of these valves to meet the current plant Technical Specifications. Selected materials will be tested in certain plants with the objective of eliminating excessive setpoint drift. The actions taken thus far by the OG and the OG program are responsive to the issue. We expect that this issue will be resolved with minimum staff effort needed only to monitor their program. We will work with the OG and provide them with our evaluation of their program and indicate our intent to rely on their program to resolve the issue. A generic issue close-out memorandum will reflect this understanding. At the completion of the OG program, which is not expected until 1987,			

## Generic Issue #B-55

- 2 -

the staff will review the industry resolution. NRR will establish a new generic issue only if the resolution is inadequate or if not implemented properly by the utilities involved.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Meeting with BWR Owners Setpoint Drift Committee	12/83	-	11/83
BWR Owners Report submitted	07/84	-	06/84
Boston Edison Report submitted	-	-	08/84
Completion of NRR evaluation of Owners Group and Boston Edison reports	10/84	-	10/84
Communication to OG re: NRC comments/concerns.	-	-	03/85
OG presentation to the staff	-	10/85	-
Staff receives Owners' program for eliminating set point drift	-	10/85	-
Owners begin to install new pilot disks to test in plant for one fuel cycle	-	10/85	-
Issue memorandum to OG providing staff evaluation of OG programs and our intent to rely on program to resolve this	-	12/85	-
Issue close-out memorandum	-	12/85	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-56	Safety/ High	Active-L1	NRR/DSI/PSB	O. Chopra	49942

Title ----- Diesel Reliability

Work Authorization --- NRR FY-83 Operating Plan (Appendix G).

Contract Title ----- Review of Licensees responses to proposed staff actions to improve and maintain diesel generator reliability

Contractor Name/  
FIN No. ----- Brookhaven National Laboratory/FIN No. A-3817

Work Scope ----- In September 1983, DSI and DST coordinated the technical approaches to the resolution of Generic Issue B-56 (Diesel Generator Reliability) and USI A-44 (Station Blackout). Actions under B-56 will include sending a 50.54(f) letter to all operating reactor licensees. This letter contains the following three items:

1. Presents the staff's approach for reducing the number of cold fast start surveillance tests.
2. Requests licensees submit current diesel generator reliability data.
3. Requests licensees submit a description of their diesel generator reliability program, if any, and provides example performance technical specifications for diesel generator reliability.

Responses from all licensees have been evaluated. Due to lack of adequate responses from the licensees regarding item #1 above, the staff met with the industry representatives including licensees, DG manufacturers and NSAC to discuss diesel generator testing. Additionally extensive comments have been received from ACRS, EPRI and DG manufacturers regarding DG testing. PSB will provide overall management of the program to resolve this generic issue. PSB will utilize technical assistance contracts. The contractor will review and assess all comments on DG testing. The staff will use contractors comments relating to enhancement of diesel generator reliability in the revisions to RG 1.108 and STS.

Affected Documents --- Standard Technical Specifications RG 1.108 (as a long-term effort associated with the final resolution of USI A-44).



Generic Issue #B-56

- 2 -

Status -----

Major revision made to scope and schedule in September 1983 as a result of new direction requested by CRGR.

CRGR review of Package for Generic Issue B-56 complete 5/8/84. DSI has transmitted a memo to DL transmitting 50.54(f) letter and recommending issuance to licensees.

A generic letter 84-15 was sent out to all licensees on July 2, 1984.

MPA "D19" has been established to resolve item #1 of the generic letter. For item #3, of the generic issue, a technical assistance contract with BNL has been established. BNL will review and assess licensee responses to this item and industry comments regarding DG reliability. This effort will be completed by January 1986.

Problem/Resolution ---

Responses from all of the licensees to generic letter 84-15 have been evaluated. Responses to item #1 of the generic letter were inadequate. This required adjustment of the B-56 schedule. The staff met with industry groups, diesel generator manufacturers and some utilities to determine their reluctance to implement item #1. MPA "D19" has been established to resolve item #1. Additionally, PSB has established a technical assistance contract with BNL to review and assess licensee responses to item #3 of the generic letter and industry comments. PSB will use this information in the revisions to RG 1.108 and standard technical specifications.

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Technical resolution identified.	-	-	02/03/83
Director, DSI approval of CRGR package. Sent to DL and DST for comments.	02/83	-	02/03/83
DST and DL comments incorporated. Package sent to Director, NRR.	04/83	-	03/28/83
Director, NRR review complete. Package sent to CRGR.	05/83	07/83	07/01/83
CRGR review complete.	06/83	07/83	07/27/83

As of Fourth Quarter FY-85



## Generic Issue #B-56

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Scope of issue modified to coordinate technical resolution of B-56 with USI A-44	-	-	09/27/83
Scope of issue modified to consider number of cold fast start surveillance tests.	-	-	11/14/83
Letter issued to licensees requesting voluntary information on actual fast start testing.	-	-	12/16/83
Coordinated GI B-56 and USI A-44 CRGR package sent to Director, NRR.	02/84	-	01/24/84
Director, NRR review complete. Package sent to CRGR.	04/84	-	03/06/84
CRGR review complete.	05/84	-	05/08/84
Issue 50.54(f) generic letter (84-15) to licensees requesting information discussed under work scope above.	06/84	-	07/02/84
Close of 90 day comment period.	09/84	10/84	11/01/84
Staff meets with industry groups, et al.	-	05/85	05/85
Issued technical assistance contract to BNL	-	06/85	06/20/85
BNLs analysis of licensee response to 50.54(f) letter and industry comments	-	01/86	-
Complete analysis of BNLs report and issue close-out documentation for B-56.	01/85	05/86	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-58	Safety/ Medium	Complete	NRR/DE/EQB	J. Lombardo	52467,

Title ----- Passive Mechanical Failures

Work Authorization --- NRR FY-84 Operating Plan, (Appendix G)

Contract Title ----- To Be Provided Later

Contractor Name/  
FIN No. ----- To Be Provided Later

Work Scope ----- To be Provided Later

Affected Documents --- To be Provided Later

Status ----- This issue is very broadly defined in NUREG-0933, thus any attempt to resolve a range of aspects related to passive mechanical failures would require a large expenditure of staff resources. DE staff have discussed this problem with DST in an effort to identify a more narrow and more cost effective scope to address. DST has recommended that DE request assistance from AEOD in redefining the issue, drawing on their experience with operational data.

Problem/Resolution --- DE has had initial discussions with AEOD and plans further discussions in January 1985. Preliminary indications are that AEOD may not have adequate resources to support this effort. Our thinking on this issue is that the pump and valve issues appropriate for resource allocation have already been identified (e.g., 70, B-55, II.D.1 and II.E.6.1). DE believes that it is unlikely that additional pump or valve passive failure modes not being pursued under generic issues and in ASME Section XI IST reviews will be identified that would lead to the risk reduction or cost savings assumed in the prioritization of this issue. Pending further discussions with AEOD, DE plans to prepare a closeout memorandum to terminate this generic issue.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Prepare draft memorandum from R. Vollmer to AEOD requesting information on operating experience related to valve/pump failure mechanisms	07/84	-	09/17/84

As of Fourth Quarter FY-85

Generic Issue #B-58

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Preliminary discussions with AEOD	09/84	10/84	10/11/84
Issue generic issue closeout memorandum	-	04/85	07/09/85*

\*Memorandum from J. Knight for H. Denton dated July 9, 1985 closed out Generic Issue B-58. This issue is complete.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-61	Safety/ Medium	Active-L1	NRR/DST/RRAB	E. Chow	52715
Title -----		Allowable ECCS Equipment Outage Periods			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		In general, plants will be classified such that in each class, similar ECCS outage unavailabilities will have similar impacts on risk. The effect of a given ECCS availability on risk will be determined, for each class of plant, as well as the impacts of any changes in allowable ECCS outage period. Consideration of support system outages must be included. Details of the work scope are contained in the draft action plan.			
Affected Documents ---		Technical Specification changes are possible.			
Status -----		Task I has been completed.			
Problem/Resolution ---		Because of the RES workload in support of TPIP, Task II will begin in October 1985 and be completed by the end of 1985.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Draft Task Action Plan issued for DD approval	01/84	-	01/30/84
Coordinate Technical Resolution with RES complete.	04/84	07/84	08/21/84
Task Action Plan approved by Division Director	05/84	08/84	07/25/84
Task I-Methodology Review and development completed	11/84	04/85	04/30/85
Task II-Apply to a PWR or BWR	02/85	12/85	-
Apply Methodology to a Selection of Plants	08/85	08/86	-

As of Fourth Quarter FY-85

## Generic Issue #B-61

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop a Licensing Position			
Develop an Initial Recommendation for Staff Comments	03/86	09/86	-
Final Technical Resolution	04/86	10/86	-
Prepare CRGR Package	06/86	01/87	-
Review of CRGR Package by Division Directors	07/86	02/87	-
NRR Director Review Complete Review Package to CRGR	08/86	03/87	-
CRGR Review and EDO Approval Completed	09/86	04/87	-
Issuance of Federal Register Notice for Public Comment	11/86	05/87	-
Sixty Day Comment Period Ends	01/87	07/87	-
Division Review of Public Comments Completed, and final CRGR package completed	02/87	08/87	-
NRR Review of CRGR package completed (Division Review and NRR Director Review)	04/87	09/87	-
CRGR Review and EDO Approval Completed	05/87	10/87	-
Issuance of Proposed Changes to Technical Specifications	07/87	11/87*	-
Resources Needed to Complete Projects	<u>FY-84</u>	<u>FY-85</u>	<u>FY-86</u>
TA\$	\$50K	\$50K	\$50K
PGY	.5	.5	.5

\*Memorandum for Office Director approval of schedule slippage is being processed.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
B-64	Safety/ NR	Active-L1	NRR/DE/CMEB RES/DET/CMEB	F. Witt K. Steyer	04765
Title -----		Decommissioning of Reactors			
Work Authorization ---		NRR FY-84 operating Plan, (Appendix G).			
Contract Title -----		Decontamination and Decommissioning Review			
Contractor Name/ FIN No. -----		PNL/B-2342			
Work Scope -----		Develop a general decommissioning policy, prepare the attendant changes in regulations, develop the detailed information needed for use in licensing decisions for decommissioning, and establish guidance for facilitation of decommissioning.			
Affected Documents ---		1. 10 CFR Part 50 and 51 amendments, 2. Regulatory Guide 1.86 revision, 3. New regulatory guides on financial assurance, termination surveys and format and content for nuclear reactor decommissioning plans, 4. New standard review plan for decommissioning review.			
Status -----		Draft rule changes and other package material is targeted for completion in September.			
Problem/Resolution ---		The schedule was previously slipped to accommodate the anticipated date of RES input. Schedule still dependent on RES input (see note below).			
Technical Resolution -		Published rule changes on decommissioning, issue new regulatory guides and revision to R.G. 1.86, issue new standard review plan on decommissioning.			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR review completed on decommissioning rule (Research)	-	-	08/08/84
EQO approval of decommissioning - SECY-84-354 (Research)	-	-	09/07/84

## Generic Issue #B-64

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Commission Approval of SECY-84-354 (Research)	-	12/15/84	12/84
Issuance of draft rule change for public comment	-	02/85	02/11/85
Format and Content for Decommis- sioning Plans (from Research)	02/84*	06/85	06/85
<u>Issue Decommissioning Rule</u>			
Extended public comment period complete	-	07/1/85	07/12/85
Revised draft rule incorporating public comments ready for RES management review	02/86	10/86	-
Revised draft rules incorporating public comments reviewed and approved by CRGR	08/86	06/30/87	-
Final rules noticed in the Federal Register	01/87**	10/30/87	-
<u>Revised and Issue SRP Section</u>			
Draft SRP issued for staff comment	-	-	06/25/85
Issue transfer memo to RES	-	11/85	-
SRP revision package to Div. Director for review	06/84	09/86***	-
NRR Director Review completed	07/84	10/86	-
Review Package to CRGR	08/84	11/86	-

\*Original milestone dates necessary to resolve this issue were based on the receipt of input on format and content for Decommissioning Plan from RES.

\*\*Milestone dates for issuance of final decommissioning rule and a proposed new SRP section are being processed concurrently. Schedule slippage that occurs in issuing the final rule will be reflected in the SRP issuance schedule.

\*\*\*Milestone dates necessary to issue Decommissioning SRP will be incorporated into the SRPCS when Final Rule is issued.

As of Fourth Quarter FY-85



## Generic Issue #B-64

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR review completed	09/84	11/86	-
EDO approval	09/84	11/86	-
Federal Register Notice of Issuance of proposed RG and SRP for Public Comment	10/84	12/86	-
OMB Clearance, if applicable	01/85	12/86	-
Division review of public comments completed	01/85	03/87	-
NRR Director review completed	02/85	04/87	-
CRGR review completed	03/85	05/87	-
EDO approval	03/85	05/87	-
Federal Register Notice of Issuance of SRP	04/85	06/87	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
C-8	Safety/ High	Active-L1	NRR/DSI/ASB	J. Ridgely -	51476

Title ----- Main Steam Line Leakage Control (BWR)

Work Authorization --- NRR FY-84 Operating Plan (Appendix G).

Contract Title ----- MSIV Leakage and LCS Failure

Contractor Name/  
FIN No. ----- Pacific Northwest Laboratories/FIN No. B-2529

Work Scope ----- Review MSIV leakage and LCS failures with respect to plant maintenance and operating practices and equipment design and orientation. Provide an assessment of the realistic offsite doses using the LCS versus the normal steam path under LOCA conditions. The evaluation of this issue will also include utilities' efforts to reduce MSIV leakage and LCS failures.

Realistic calculation of offsite dose consequences arising from MSIV leakage following severe accidents involving substantial core damage will be performed. Realistic source terms for such accidents are not expected to be used in the evaluation of the risk associated with MSIV leakage and various control options as new research information is not expected to yield updated interim source terms until June 1986. Assessments of risk through existing MSIVLCS, and for cost/benefit analysis of alternative fixes, will use the interim source term information. Maintenance and Design Improvements - industry approach and other alternatives to maintenance will be considered for all BWR MSIV's. However, the results of TVA's efforts are not yet available for evaluation of alternatives. Alternative maintenance and design changes are to be considered. Coordination with industry - BWRs utilize MSIV and LCS designs made by different manufacturers. In addition, the BWR standard plant application (GESSAR II) contains an alternative to many contemporary BWR LCS designs, a positive vacuum system which would force MSIV leakage into the containment. Because of the differences in design and component manufacturers, no single solution for all plants is likely. Because of this diversity the staff will seek a working relationship with industry (i.e., the BWR owners group) to solicit suggestions on improved maintenance and/or design.

Other offices and Divisions involved in resolving this issue include NRR/DE/MEB, NRR/DST/SPEB, NRR/DSI/AEB, NRR/DE/SGEB, and NRR/DL/SSPB.

Generic Issue #C-8

- 2 -

Affected Documents ---

Issue NUREG-(to be determined).  
Revise and Issue Regulatory Guide 1.5 (To be determined)  
Revise and Issue SRP Change to Section 6.7 and 15.6.4  
(To be determined).  
Revise and Process Plant Specific and STS Changes (To be determined).

Status -----

On 02/23/84, the BWR Owner's Group (BWROG) Committee on MSIV Leakage Control made a presentation to the staff on their review and recommendations concerning leakage through the MSIVs. The principal purpose of the meeting was to discuss the efforts of the Committee concerning data collection, evaluation, assessment, recommendations, and the effects of the recommendations.

Peach Bottom 2 has recently tested the MSIVs after one cycle of operation using the BWROG recommendations. Seven out of eight MSIVs had leakage less than 11.5 SCFH and the eighth valve had a leakage rate of 14 SCFH.

The BWROG Committee proposed a method for all BWRs to implement their recommendations. The Owners Group made a formal submittal to the staff.

Problem/Resolution ---

Permission to incorporate the Owners Group material into the NUREG has been requested. PNL has issued a draft TER for comments. The staff has approved the contractor's model for filling, deposition and release processes in BWR steam lines under leaking MSIV conditions. PNL is currently running the dose/release calculations. PNL has submitted a revised schedule which maintains the final completion date. PNL has been retained as a consultant from the issuance of the NUREG until final resolution by the Commission.

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Task Action Plan approved by Director, DSI.	10/83	-	10/31/83
Complete Task 4 (Develop minimum design criteria for alternative equipment for LOCA mitigation).	03/84		04/18/84
Received Initial BWROG Submittal	-	-	04/09/84

## Generic Issue #C-8

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Revised Work Plan based on Submittal	-	-	05/25/84
Revised Work Plan Approved by DD	-	-	06/01/84
Revised request for Technical Assistance to DD for approval	-	-	06/15/84
Revised TA request Approved by DD	-	08/84	07/03/84
Complete Task 1 (Literature search)	08/84	-	08/15/84
Complete Task 2 (Review BWROG recommendations)	09/84	07/85	06/14/85*
Review PNL model for filling, deposition and release processes in BWR steam lines under leaking MSIV conditions.	-	07/85	08/09/85
Complete Task 3 (Effectiveness of BWROG recommendations)	10/84	10/85	-
Complete Task 6 (Perform PRA study of different alternatives).	11/84	10/85	-
Complete Task 5 (Perform (1) baseline offsite dose calculations, (2) thermal hydraulic modeling, and (3) alternate off-site dose calculations to determine the effects of a LOCA and to determine maximum leakage rate within Part 100 for most favorable method).	03/85	10/85	-
Complete Task 7 (Review of compartment contamination)	-	10/85	-
Complete NUREG/CR	12/85	-	-

\*Draft TER issued. Staff comments have not been provided to PNL. Awaiting AEB's comments.

As of Fourth Quarter FY-85

## Generic Issue #C-8

- 4 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
CRGR package approved by Director DSI. Sent to Division Directors for comment.	01/86	-	-
Comments incorporated. CRGR package sent to Director, NRR.	02/86	-	-
Director, NRR review complete. Package sent to CRGR.	03/86	-	-
CRGR review complete.	04/86	-	-
ACRS review complete.	04/86	-	-
EDO approval.	05/86	-	-
Federal Register Notice issued for public comment.	05/86	-	-
OMB Clearance	09/86	-	-
Incorporation of comments. Package sent to Director, NRR.	09/86	-	-
Director, NRR review complete. Package sent to CRGR.	10/86	-	-
CRGR review complete.	11/86	-	-
EDO approval.	12/86	-	-
Federal Register Notice issued.	12/86	-	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
C-11	Safety/ Medium	Complete	NRR/DE/MEB	F. Cherny	52468
Title -----		Assessment of Failure and Reliability of Pumps and Valves			
Work Authorization ---		NRR FY-84 Operating Plan, (Appendix G)			
Contract Title -----		To Be Provided Later			
Contractor Name/ FIN No. -----		To Be Provided Later			
Work Scope -----		To Be Provided Later			
Affected Documents ---		To Be Provided Later			
Status -----		This issue is very broadly defined in NUREG-0933 and any attempt to resolve a range of aspects related to failure and reliability of pumps and valves would result in a large expenditure of staff resources. DE staff have discussed this problem with DST in an effort to narrow the scope and to arrive at a more cost effective approach before addressing the issue further. DST has recommended that DE request assistance from AEOD in re-defining the issue by drawing on their experience with operational data.			
Problem/Resolution ---		DE has had initial discussions with AEOD and plans further discussions in January 1985. Preliminary indications are that AEOD may not have adequate resources to support this effort. Our thinking on this issue is that the pump and valve issues appropriate for resource allocation have already been identified (e.g., 23, 70, B-55, B-63, II.D.1, II.E.6.1). DE believes that it is unlikely that additional pump or valve failure modes will be identified that would lead to the risk reduction assumed in the prioritization of this issue. Pending further discussions with AEOD, DE plans to prepare a closeout memorandum to terminate this generic issue.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Prepare draft memorandum from R. Vollmer to AEOD requesting information on operating experience related to valve/pump failure mechanisms	07/84	-	09/17/84

As of Fourth Quarter FY-85

Generic Issue #C-11

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Preliminary discussions with AEOD	09/84	10/84	10/11/84
Issue generic issue closeout memorandum	-	04/85	07/09/85*

\*Memorandum from J. Knight for H. Denton dated July 9, 1985 closed out Generic Issue C-11. This issue is complete.



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.B.5 Sub- tasks 1&2	Safety/ High	Active-L1	RES/DAE/FSRB RES/DAE/CSRB	M. Silberberg R. T. Curtis	None
Title -----		Research on Phenomena Associated With Core Degradation and Fuel Melting			
Work Authorization ---		TMI Task Action Plan LRRP, Budget Authorization Documentation			
Contract Title -----		Multiple contracts			
Contractor Name/ FIN No. -----		SNL/INEL/BCL/PNL			
Work Scope -----		Conduct an extensive experimental and analytical program on the behavior of damaged fuel, hydrogen generation and control, fuel structure interaction, containment analysis, and fission product release and transport as described in detail in NUREG-0900 and Supplements, the Nuclear Power Plant Severe Accident Research Plan. This program involves both in-pile and out-of-pile tests with actual and simulated core and reactor structural materials and the development of codes to model the phenomena expected in the reactor.			
Affected Documents ---		<p>NUREG-0900 Nuclear Power Plant Severe Accident Research Plan (Jan. 1983 with draft Supplement 8/84 and final 11/85 - planned).</p> <p>NUREG-1070 Severe Accident Policy Statement (July 1985).</p> <p>NUREG-0956 Reassessment of Technical Bases for LWR Accident Source Term (Draft for Comment July 1985).</p> <p>NUREG-1150 New Risk Profiles For Five Reference Plant (Draft for Comment August 1986).</p>			
Status -----		Severe fuel damage in-pile research is in progress in ACRR and the Canadian NRU reactors and complete in PBF. Core melt - ex-reactor core melt/structure interaction tests are underway at Sandia National Lab. and elsewhere. Large scale hydrogen tests are underway at Sandia National			

Lab. Many out-of-pile separate effects tests are continuing, as is the development and assessment of computer codes such as SCDAP, HECTR, CORCON, MELPROG, TRAP-MELT, and CONTAIN. Milestone charts for this work and a more complete description of the work appears in NUREG-0900. Integrated PRA analysis codes such as the Source Term Code Package (STCP) (complete 9/85) and MELCOR (1987) will be used for extensive uncertainty analysis through FY 1988-89.

Problem/Resolution --- A report (NUREG-1150) on severe accident risk rebaselining is being prepared to assure that risk is being given appropriate attention in the severe accident source term reassessment. This report is expected to be complete - Summer, 1986.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Initial draft contractor Source Term Report	-	-	01/83
Annual Review of Severe Accident Research Program	Spring 1983	10/84	-
Summary of data base for validation of codes to predict releases (draft)	08/83	10/83	12/83
Source term estimates for selected plants and accident sequences	08/83	10/83	01/84
Thorough peer review of the above scientific bases for reassessment	12/83	02/85	02/85
Severe Accident Risk Rebaselining program final report (NUREG-1150)	12/83	06/86	-
Draft Reassessment of the Technical Bases for Estimating Source Terms (NUREG-0956)	12/83	07/85	07/85

Generic Issue #II.B.5 (1 & 2)

-3-

	<u>Original</u>	<u>Current</u>	<u>Actual</u>
nt of the for e Terms	-	01/86	-
ent Policy	-	11/85	07/85
tions to the ere Accident Operating under	Mid-1984	11/87	-
emo to EDO	-	12/87	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.A.2.6 Sub-Task 4	Safety/ Medium	Complete	NRR/DHFS/LQB	D. Morisseau	42449
Title -----		Operator Workshops			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		Operator Feedback			
Contractor Name/ FIN No. -----		Battelle PNL/FIN 8-2360 (S-4)			
Work Scope -----		<p>Four tasks are required to technically resolve and complete this issue:</p> <ol style="list-style-type: none"> <li>1. Develop and conduct three workshops, varying size, participation, and format.</li> <li>2. Evaluate the overall effectiveness of workshops by collecting data at each and conducting a usefulness survey of potential users of feedback. Recommendations will be made on size, participation, format, and other parameters that can have an effect on the success of this approach.</li> <li>3. Prepare and submit a report describing alternative approaches to obtaining feedback, determining whether any alternative might be more effective than workshops.</li> <li>4. Survey utility operations and training personnel on several issues discussed at feedback workshops in order to compare workshops to the mailed survey as a means of obtaining feedback.</li> </ol>			
Affected Documents ---		None			
Status -----		Assessments of various feedback alternatives and of attitudes toward these feedback mechanisms were initiated. All Task 3 activities are completed. Preparation of the final report is in progress.			
Problem/Resolution ---		Delays that have been associated with this issue were resolved. The survey was sent out in January 1984. Data analyses are completed for the final report to be submitted in the first quarter of FY-85.			

As of Fourth Quarter FY-85

Generic Issue #I.A.2.6 Sub-Task 4

- 2 -

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Report on operators' comments	-	-	11/01/82
Second interim report (Task 2 and 3 results)	-	-	03/31/83
Complete Survey (Task 4)	-	07/84	07/84
Final contractor report issued	08/83	04/85	04/85
Staff Position Developed	-	06/85	*
Issue close-out memo to EDO	-	06/85	*

\*Memorandum from H. Denton for W. Dircks dated September 25, 1985 closes-out Task Action Plan Item I.A.2.6(4). This issue is complete.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.A.3.3	Safety/ High	Active-L1	RES/DRAO/HFSB	T. G. Ryan	None
Title -----		Requirements for Operator Fitness			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		A rule (amending 10 CFR 50.54) is being promulgated requiring licensees with an operating license for a nuclear power unit issued under 10 CFR 50.21(b) or 50.22 to establish and implement written procedures designed to provide reasonable assurance that personnel with access to nuclear power plants are not under the influence of alcohol, other drugs or otherwise unfit for duty.			
Affected Documents ---		Issue policy statement.			
Status -----		On October 24, 1984, the Commission notified the staff that it would not promulgate a rule on fitness for duty for a minimum of two years, but would issue a policy statement on the subject (M841017). A proposed policy statement was submitted to the Commission on January 17, 1985, as SECY 85-21. In a separate action, a notice withdrawing the final fitness for duty rule submitted to the Commission on April 12, 1985, as SECY 85-21A. The proposed policy statement (SECY 85-21) was reaffirmed by the staff in SECY 85-12B submitted to the Commission on August 26, 1985. SECYs 85-21, 21A, and 21B are being reviewed by the Commission for concurrence and publication, as appropriate in the Federal Register on, or about, 1 November 1985.			

Technical Resolution ---

## Milestones for Fitness for Duty Rule:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue Draft Rule for Public Comment	-	-	08/82
Complete Division Review	-	-	03/83
Complete Office Concurrence	04/83	-	06/83

As of Fourth Quarter FY-85

## Generic Issue #I.A.3.3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Complete CRGR Review	05/83	-	07/29/83
Complete ACRS Review	05/83	-	08/05/83
Complete Commission Review	06/83	*	10/24/85
Issue Final Rule <u>Federal</u> <u>Register</u> Notice	07/83	*	-
Issue Final Rule	07/83	*	-
Policy statement, SECY 85-21 submitted to Commission for approval	-	-	01/17/85
Withdrawal Notice, SECY 85-21A submitted to Commission for approval	-	-	04/12/85
Reaffirmation of policy statement SECY 85-21B, submitted to the Commission	-	-	08/26/85
Commission approved policy statement and withdrawal notice	-	10/85	-
Issue Federal Register Notice withdrawing fitness rule	-	11/85	-
Publish Policy Statement	-	11/85	-
Issue close-out memorandum to EDO	-	12/85	-

\*Final Rule will not be issued based on Commission discussion. Milestone dates necessary to complete this issue are dependent upon issuance of a Policy Statement approved by the Commission and withdrawal notice for fitness for duty rule.



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.A.4.2 Subtask 1	Safety/ High	Active-L1	NRR/DHFS/OLB	TBP	None
Title -----		Research on Training Simulators			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		Simulator Experiments			
Contractor Name/ FIN No. -----		Oak Ridge National Laboratory/B-0821			
Work Scope -----		This project will use experiments on nuclear power plant training simulators supported by field data collection to provide a data base of operator performance to address issues associated with the operational safety of nuclear power plants. On the basis of the data obtained, conclusions regarding these issues can be made along with recommendations for considerations as regulatory guidance.			
Affected Documents ---		To Be Provided Later			
Status -----		First Experiment on BWR Plant completed and draft report received. PWR Experiment is now underway.			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop FY83 Research Plan	05/83	-	06/83
Conduct FY83 Experiment	05/83	-	09/83
Develop FY84 Research Plan	02/84	04/84	04/84
Prepare Report	09/84	01/83	-
Conduct FY84 Experiments	-	12/84	12/84
Prepare FY84 Letter Report	-	10/85	-
Prepare FY84 Simulator Experiment Report	-	10/85	-
Issue Close-out memorandum to EDO	-	10/85	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I. A. 4. 2 Subtask 4	Safety/ High	Active-L1	NRR/DHFS/OLB	D. Beckham	42454

Title ----- Review Simulators for Conformance to Criteria

Work Authorization --- TMI Task Action Plan

Contract Title ----- None

Contractor Name/  
FIN No. ----- None

Work Scope ----- The work scope and milestones necessary to complete this issue are provided in HF-01 issue HFPP-3.3.

Affected Documents --- Same as above

Status ----- Same as above

Problem/Resolution --- Same as above

Technical Resolution -

Milestones

Original

Current

Actual

Milestones necessary to complete this issue are provided in HF-01 issue HFPP-3.3.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.B.1.1 (1 - 4)	Safety/ Medium	Active-L1	NRR/DHFS/LQB	P.W. McLaughlin	None

Title ----- Organization and Management of Long Term Improvements

Work Authorization --- TMI Task Action Plan

Contract Title ----- None

Contractor Name/  
FIN No. ----- None

Work Scope ----- The work scope and milestones necessary to complete this issue are provided in HF-01 issues HFPP 6.1 and 6.3.

Affected Documents --- Same as above

Status ----- Same as above

Problem/Resolution --- Same as above

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
-------------------	-----------------	----------------	---------------

Milestones necessary to complete this issue are provided in HF-01 issues HFPP 6.1 and 6.3.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.B.1.1 Subtasks 6&7	Safety/ Medium	Subsumed	IE/DQAVT/QAB NRR/DHFS/LQB	M. Malloy	None
Title -----		Prepare and Issue a Revision to Regulatory Guides 1.33 and 1.8			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Regulatory Guide 1.33 - QAVT/QAB will revise and issue a change to the guidelines contained in this Guide. GI #75 subsumed the issue, and information pertaining to the changes in the guidelines is now included in GI #75, Subtask 1.			
		Regulatory Guide 1.8 - HFSB will revise and issue a change to the guidelines contained in R.G. 1.8 concurrent with the work scope of HF-01 issues HFPP-1.2 and 3.4.			
Affected Documents ---		Regulatory Guides 1.33 and 1.8			
Status -----		Refer to GI #75 subtask 1 and HF-01 issues HFPP-1.2 and 3.4 for Status.			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Regulatory Guide 1.8</u>			
Refer to HF-01 issues HFPP-1.2 and 3.4 schedule for issuing a revision to Reg. Guide 1.8.	-	-	-
<u>Regulatory Guide 1.33</u>			
Refer to GI #75(1) schedule for issuing a revision to Reg. Guide 1.33*	-	-	-

\*By memorandum from R. DeYoung for W. Dircks dated July 26, 1984, milestones necessary to complete Task Item I.B.1.1 Subtasks 6 and 7, have been subsumed by milestones for Generic Issue No. 75 subtask 1.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.C.9	Safety/ Medium	Active-L1	NRR/DHFS/PSRB	M. Goodman	43505
Title -----		Long-Term Program for Upgrading of Procedures			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		P-1 Development of Guidelines for Upgrading Maintenance Procedures P-2 Development of Guidelines for Upgrading Operating Procedures			
Contractor Name/ FIN No. -----		Battelle Pacific Northwest Laboratories (PNL)/B-2360			
Work Scope -----		The work scope and milestones necessary to complete this issue are provided in HF-01 issues HFPP-4.2 and 4.4 and HF-02.			
Affected Documents ---		Same as above			
Status -----		Same as above			
Problem/Resolution ---		Same as above			
Technical Resolution -					
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Milestones necessary to complete this issue are provided in HF-01 issues HFPP-4.2 and 4.4 and HF-02.					

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.D.3	Safety/ Medium	Active-L1	NRR/DHFS/HFEB	TBP	41030
Title -----		Safety System Status Monitoring			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		Verification, System Status, Automatic vs Manual			
Contractor Name/ FIN No. -----		Pacific Northwest Laboratories/B-2360			
Work Scope -----		PNL has reviewed the effectiveness of systems and procedures related to safety system status monitoring and has recommended a regulatory position on this issue. PNL findings indicate that a revision of R.G. 1.47 is necessary, and further, that this new revision should be applied to all plants. Based on the PNL recommendations, DHFS has transferred responsibility for this issue to the Office of Research (revise R.G. 1.47). Responsibility for issue transferred back to NRR.			
Affected Documents ---		Revision to R.G. 1.47.			
Status -----		All technical reports on this issue are complete. The project final report has been published as NUREG/CR-3621. This final report includes guidelines for improving system status monitoring as well as the final recommendation of PNL on a regulatory position. Their recommendation is to revise R.G. 1.47 and apply it to all plants. Supplemental work may be required of the contractor to support revision of R.G. 1.47 by RES, e.g., value/impact analysis, resolution of public comment, and development of a draft revision to R.G. 1.47. PNL has submitted a proposed program for this supplemental work.			
Problem/Resolution ---		Response by RES to NRR dated April 17, 1985 identifies need to coordinate plan to revise R.G. 1.47 and fund work. The termination of human factors research funding at the end of FY 1985 necessitates that this issue be reassigned to DHFS/NRR.			
Technical Resolution -		The technical resolution of this issue will be the development of an NRC position regarding the need to revise R.G. 1.47 and to apply this revised version to all plants for compliance/backfit.			

## Generic Issue #I.D.3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Complete draft report of current industry practices	-	-	06/04/82
Submit preliminary recommendation for regulatory position	-	-	09/30/82
Submit tech report on effectiveness of existing systems	-	-	11/30/82
Submit tech report on effectiveness of verification procedures	-	-	12/15/82
Submit draft acceptance criteria	-	-	04/01/83
Submit draft guidelines for "interim" improvement	07/01/83	-	07/83
Submit program plan for developing "full implementation" guidelines	09/30/83	11/83	11/30/83
Submit final recommendations for regulatory position	09/30/83	02/84	02/15/84
Draft memo transferring issue to RES complete	-	-	06/01/84
Transfer memo approved by DD's	07/84	10/84	10/84
Transfer memo to Minogue approved by NRR, Director	08/84	11/84	10/30/84
RES provided milestone necessary to complete issue and outlined problems with issuing Reg. Guide revision	09/84	04/85	04/17/85
Issued memorandum transferring issue to DHFS	-	-	09/16/85
DHFS provides new milestone dates necessary to resolve issue	-	10/85	-
• Prepare Task Control Form (TCF)	-	10/85	-
Obtain TCF Approval	-	10/85	-

As of Fourth Quarter FY-85



## Generic Issue #I.D.3

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Initial Draft Complete (Info Copy to CRGR/ACRS)	-	10/85	-
Division Review Complete	-	10/85	-
Develop Regulatory Analysis	-	03/86	-
Office Concurrence of CRGR Package	-	04/86	-
CRGR, EDO, ACRS Review/Approval	-	07/86	-
Resolution of Comments	-	09/86	-
Printing and Distribution Authorized	-	09/86	-
Printed and Issued for Comment	-	10/86	-
Comment Period	-	01/87	-
Resolution of Comments	-	02/87	-
Division of ELD review complete	-	04/87	-
CRGE review complete	-	07/87	-
ACRS review complete	-	07/87	-
Resolution of comments	-	09/87	-
Office concurrence obtained	-	10/87	-
Printed and Issued	-	12/87	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.D.4	Safety/ High	Active-L1	NRR/DHFS/HFEB	None	None
Title -----		Control Room Design Standard			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		The work scope and milestones necessary to complete this issue are provided in HF-01 issues HFPP-5.3.			
Affected Documents ---		Same as above			
Status -----		Same as above			
Problem/Resolution ---		Same as above			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Milestones necessary to complete this issue are provided in HF-01 issue HFPP-5.3.			

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.D.5 Subtask 3	Safety/ NR	Active-L1	RES/DET/EEIGB	N. N. Kondic	96005
Title -----		On-Line Reactor Surveillance Systems			
Work Authorization ---		TMI Task Action Plan Form 173 No. 60-83-061 dated November 30, 1983 No. 60-83-182 dated March 17, 1983.			
Contract Title -----		"Continuous On-Line Reactor Noise System Evaluations"			
Contractor Name/ FIN No. -----		Oak Ridge National Laboratory/FIN No. B0442-3.			
Work Scope -----		The objective of this effort is to perform research to determine the feasibility of detecting and diagnosing nuclear power plant operating anomalies using a continuous on-line noise surveillance system and to perform demonstrations of such a system in an NRC licensed commercial PWR plant and an NRC licensed commercial BWR plant.			
Affected Documents ---		Not Applicable.			
Status -----		Work is in progress. A demonstration of system feasibility at an operating PWR has been completed. The surveillance instrument system has been installed at Peach Bottom Unit 2 and is to be used to demonstrate system feasibility at a BWR.			
Problem/Resolution ---		See Technical Resolution.			
Technical Resolution -		Determine the feasibility of the system to detect and diagnose LWR operating anomalies using continuous on-line surveillance.			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Install System at a PWR	-	-	09/80
Complete PWR Data Acquisition	06/84	-	01/84
Install System at a BWR	04/84	06/85	06/85
Complete BWR Data Acquisition	04/87	12/87	-
Issue transfer memo to NRR with data, recommendations and implementation	-	04/88	-

Generic Issue I.D.5 Subtask 3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
NRR assessment of available data, issue close-out memorandum or expand schedule	-	09/88	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.D.5 (5)	Safety/ High	Active-L1	NRR/DHFS/HFEB	None	None

Title ----- Disturbance Analysis Systems

Work Authorization --- TMI Task Action Plan

Contract Title ----- None

Contractor Name/  
FIN No. ----- None

Work Scope ----- The work scope and milestones necessary to complete this issue are provided in HF-01 issue HFPP-5.4.

Affected Documents --- Same as above

Status ----- Same as above

Problem/Resolution --- Same as above

Technical Resolution -

Milestones

Original

Current

Actual

Milestones necessary to complete this issue are provided in HF-01 issue HFPP-5.4.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
I.F.1	Safety/ High	Active-L1	IE/DQAVT/QAB	W. Scott	None
Title -----		Expand QA List			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Develop guidance for licensees to expand their QA list to cover equipment important to safety.			
Affected Documents ---		None			
Status -----		SECY-85-119, "Issuance of Proposed Rule on Important to Safety" being considered by Commission.			
Problem/Resolution ---		No plans to expand QA list. Issue proposed rulemaking.			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Task 1: Develop Frame Work	-	-	02/83
Review NRC Internal Comments on NUREG/CR-2631 (rewrite Scope/189 if necessary) and publish NUREG	04/83	-	07/83
Task 2: Start Method Development (Issue Contract to Sandia)	10/83	-	10/83
Completion of Task 2	09/84	05/85	05/85
Issued SECY 85-119, proposed rule on importance to safety issue	-	-	04/05/85
Commission approves SECY 85-119	-	ACA	-
Issue close-out memo to EDO or provide additional milestones necessary to complete issue based on Commission discussion.	-	ACA	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.B.5 Sub Task 3	Safety/ Medium	Active-L1	RES/DAE/CSRB	P. R. Worthington	None
Title -----		Effect of Hydrogen Burning and Explosions on Containment Structures			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		Hydrogen Behavior Program, Hydrogen Burn Survival, Hydrogen Combustion and Control Demonstration Experiment, Hydrogen Mitigation and Preventive Schemes.			
Contractor Name/ FIN No. -----		Sandia National Laboratory/ (A-1246), (A-1270), (B-8208), (A-7247), and (A-1336)			
Work Scope -----		Provide the NRC with a better technical understanding of the threat posed by hydrogen burning during postulated lightwater reactor accidents. This work includes an understanding of deflagrations, global and local detonations, flame acceleration and the transition to detonation. The effect of burning on equipment and the efficiency of H <sub>2</sub> control systems.			
Affected Documents ---		Severe Accident Research Plan (NUREG-0900, 8/84)			
Status -----		Programs are underway with major results expected in FY 1985 and the completion of the experimental program in FY 1986 and final analysis and close-out report written in early FY 1987.			
Problem/Resolution ---		None			
Technical Resolution -		Performing experiments and analysis for various plant and containment types to assess various scenarios and the efficiency of H <sub>2</sub> control systems.			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Analysis of Sequoyah Plant	09/83	02/84	02/84
Review of Grand Gulf Plant Hydrogen Igniter System	10/83	-	03/83
Hydrogen Burn Equipment Survival Report for Ice Condenser	09/83	09/84	11/84
Effect of Sprays on Ignitors Report	09/83	01/86	-

As of Fourth Quarter FY-85



## Generic Issue II.B.5 (3)

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Effect of H <sub>2</sub> Burns in Aerosols Scoping Study Report	10/83	10/86	-
Report of Experiments on Local Detonation	01/84	01/86	-
NTS Data Analysis for Premixed Tests	-	-	05/85
NTS H <sub>2</sub> Demonstration Test Report	03/84	02/86	-
Large Scale Flame Acceleration Tests Report	05/84	12/86	-
MARCH-HECTR Analysis of Selected Accident in an Ice-Condenser Containment	12/83	03/85	02/85
Analysis of Hydrogen and Steam Releases to Containment During Degraded Core Cooling Accidents	02/82	-	02/84
Light Water Reactor Hydrogen Manual revision	-	05/87	-
Research information Letter to NRR and issue close-out memo to EDO	-	07/87	-
HECTR Version 1.0	-	-	02/85
HECTR Version 2.0	-	12/86	-
Hydrogen-Steam Jet Flame Facility and Experiments	-	-	02/85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.B.6	Safety/ High	Complete	NRR/DST/RRAB	S. Israel	42053

Title ----- Risk Reduction for Operating Reactors at Sites with High Population Densities

Work Authorization --- NRR FY-83 Operating Plan (Part C to Appendix F)

Contract Title -----

1. Safety Evaluation of Core Melt Accidents for Zion/Indian Point
2. Safety Evaluation of Core Melt Accidents; Indian Point-OR and Zion-OR
3. Review of Residual Risk for Zion Units 1 and 2, Indian Point Units 2 and 3
4. PWR Severe Accident Delineation and Assessment
5. Core Melt Materials Interactions Evaluations
6. Energetic Thermal Interactions and Coolant Flow Phenomena Associated Nuclear Reactor Concepts
7. Review of Detailed Reliability Analysis for Zion Units 1 and 2 and Indian Point Units 2 and 3

Contractor Name/

FIN No. -----

1. Brookhaven/A-3392
2. Brookhaven/A-3712
3. Brookhaven/A-3347
4. UCLA/B-8605
5. ASAI/B-6823
6. Purdue/B-6836
7. Sandia/A-1125

Work Scope ----- The staff effort has evolved to reviewing the licensee probabilistic risk assessments for the Zion and Indian Point plants and making a determination whether the plants represent a disproportionate risk to the health and safety of the public. For the Indian Point plants, this effort also requires presentation of testimony regarding the potential risk at the plants and potential effectiveness of proposed prevention/mitigation schemes. For Zion, the staff will develop a recommendation for potential modifications based on a review of the Zion PRA.

Affected Documents --

Confirmatory Orders	February 11, 1980
Confirmatory Order	February 29, 1980
Memoandum and Order	January 8, 1981
Severe Accident Policy Statement	(Secy-82-1B)

Generic Issue #II.B.6

- 2 -

Status ----- The Zion and Indian Point PRAs have been received and the reviewed. A preliminary assessment of potential mitigation strategies has been published (NUREG-0850). -The Indian Point hearing is completed. The commission has issued a decision on Indian Point that states that it does not pose undue risk. A draft assessment of Zion has been issued.

Problem/Resolution -- Draft recommendations for Zion have been presented orally to the Director, NRR. Publication for Zion awaits a revision to make it in conformance with I.P. decision.

Technical Resolution - The technical resolution of this issue will be NRC decisions on the need for changes at Zion and Indian Point to reduce risk. What, if any, additional measures need to be taken will be decided in part on the basis of the PRA evaluation. In the case of Indian Point, the commission decided that no additional measures are necessary.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Staff Initiated Study of Mitigation Schemes	-	-	01/80
Confirmatory Order (IP)	-	-	02/11/80
Confirmatory Order (Zion)	-	-	02/29/80
Commission Order (IP Hearing)	-	-	01/08/81
Zion PRA Submitted	-	-	09/81
Staff Assessment of Potential Mitigation Schemes (NUREG-0850)	-	-	11/81
Preliminary Review of Zion PRA (Sandia)	-	-	03/82
Indian Point PRA Submitted	-	-	03/82
Indian Point Hearing Initiated	-	-	06/82
Staff Initial Risk Testimony Field	-	-	01/83
Review of IP PRA (NUREG/CR-2934)	-	-	01/83
Hearing Completed	05/83	-	05/83

As of Fourth Quarter FY-85

## Generic Issue #II.B.6

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Hearing Board Submits Recommendation to Commission	07/83	-	10/83
Commission Finding on IP	-	unknown	05/85
Publication of staff recommendations on Zion	-	08/85	-
Issue close-out memo to EDO	-	10/85	*

\*Memorandum from H. Denton for W. Dircks dated September 25, 1985, closed-out Task Action Plan Item II.B.6. This issue is complete.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.B.8	Safety/ High	Complete	RES/DRAO/RAMR	M.R. Fleishman M. Spangler	None
Title -----		Rulemaking Proceeding on Degraded Core Accidents			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		The current scope of work under this action item has been resolved into two primary efforts:			
		<ol style="list-style-type: none"> <li>1. Development and issuance of a policy statement on severe accidents and related views on nuclear regulation. The policy statement would summarize the changes in rules, policies, and regulatory practices that constitute the NRC approach for severe accident rulemaking. The approach described would replace the unfocused, long-term generic rulemaking for all classes of plants that was originally envisioned when Task II.B.8 was initiated. The approach would involve (a) severe accident rulemakings designed to certify future standard plant designs and (b) regulatory decisions based on generic evaluations regarding all existing plants for which the standard plant rulemaking would not apply.</li> <li>2. Development and issuance of a final rule to improve hydrogen control capability for Mark III BWRs and ice condenser PWRs. The amendments would require improved hydrogen control systems that can handle large amounts of hydrogen. Additionally, for those Mark IIIs and ice condensers not relying on an inerted atmosphere for hydrogen control, certain essential safety systems must be able to function during and following hydrogen burning.</li> </ol>			
Affected Documents ---		<ol style="list-style-type: none"> <li>1. A policy statement as proposed in SECY-82-1B.</li> <li>2. New amendments to 10 CFR Part 50.44.</li> </ol>			
Status -----		<ol style="list-style-type: none"> <li>1. The proposed policy statement was published in the <u>Federal Register</u> for a 90-day comment period on April 13, 1983 (48 FR 16014).</li> </ol>			

As of Fourth Quarter FY-85

2. A proposed hydrogen control rule was published in December 23, 1981 and 28 comments were received. A Commission paper (SECY-83-357) transmitting a final rule was sent to the Commission on 08/26/83. It was discussed with the ACRS Class 9 Accident Subcommittee and the CRGR and was discussed with the Commission on 11/09/83. The staff responded to Commission comments and questions on 12/28/83. On 03/15/84 the staff recommended that Commission withhold decision pending review of new research information. On June 26, 1984 the Commission returned SECY-83-357 to the staff for updating and resubmission when appropriate. A revised paper was submitted on December 3, 1984 and the Commission approved the final rule on December 10, 1984. Final rule published in Federal Register on 1/25/85 to be effective 2/25/85. This aspect of the generic issue is completed.

Problem/Resolution --- None

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Milestones for Policy Statement</u>			
Published for comment	06/83	-	04/83
Draft For EDO Review	02/84	-	02/84
ACRS Subcommittee Review	01/84	-	02/84
Draft of Final Policy Statement For Director NRR and EDO review	02/84	-	02/84
Draft of Final Policy Statement to Commission for Approval	04/84	09/84	09/84
Revised Statement issued	-	-	11/24/84
Commission approval Policy Statement	-	06/85	07/30/85
Incorporate Commission Comment and publish policy statement in Federal Register	-	06/85	09/08/85
Issue close-out memo to EDO	-	09/85	08/12/85*

As of Fourth Quarter FY-85

## Generic Issue #II.B.8

-3-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Milestones for Hydrogen Control Rule</u>			
Transmitted final Rule for Office Concurrence	-	-	02/83
Complete CRGR Review	04/83	-	06/83
Complete ACRS Review	04/83	-	04/83
Transmit Rule to Commission for Approval	04/83	07/83	08/83
Incorporate Comments and Transmit Revised Rule (SECY-83-357) to Commission For Approval	-	10/84	12/84
Issue Final Rule <u>Federal Register</u> Notice	06/83	01/85	01/25/85
Issue Final Rule for Use	07/83	02/85	02/25/85
Issue closeout memorandum to EDO	-	06/85	07/19/85**

\*Memorandum from H. Denton for W. Dircks dated August 12, 1985 closed-out "Severe Accident," portion of Task Action Plan Item II.B.8.

\*\*Memorandum from R. Minogue for W. Dircks dated July 19, 1985 closed-out "Hydrogen Control Rule," portion of Task Action Plan Item II.B.8. This issue is complete.

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.C.1	Safety/ High	Complete	RES/DRAO/RRB	F. Manning	None

Title ----- Interim Reliability Evaluation Program

Work Authorization --- TMI Task Action Plan

Contract Title ----- Interim Reliability Evaluation Program

Contractor Name/

FIN No. ----- Sandia National Laboratory /A1241

Work Scope ----- To apply probabilistic risk analysis techniques to five nuclear power plants and to develop procedures adequate for the consistent analysis of all plants with the following objectives: (1) Identify, in a preliminary way, those accident sequences that dominate the contribution to the public health and safety risks originating from nuclear power plant accidents; (2) Develop a foundation for subsequent, more intensive, applications of probabilistic safety analysis or risk assessment on the subject plants; (3) Expand the cadre of experienced practitioners of risk assessment methods within the NRC and the nuclear power industry; and (4) Evolve procedures codifying the competent use of these techniques for use in an extension of IREP to all domestic light water reactor plants.

Affected Documents --- None

Status ----- To date a pilot study has been completed on the Crystal River-Unit Three and the results reported in NUREG/CR-2515. Scaled-up analyses have been completed on the four other plants and the results reported: Arkansas Nuclear One-Unit One in NUREG/CR-2787, Browns Ferry-Unit One in NUREG/CR-2802, Millstone-Unit One in NUREG/CR-3085, and Calvert Cliffs-Unit One in NUREG/CR-3511. An IREP Procedures Guide, NUREG/CR-2728, was issued which documents the IREP methods, codes, and data developed and used in the scaled-up analyses.

Problem/Resolution --- None

Technical Resolution - The IREP effort has ended with the completion of the Calvert Cliffs analysis. Closeout memorandum will be issued. A new program, the Risk Methods Integration and Evaluation Program (RMIEP) has been initiated that

As of Fourth Quarter FY-85

## Generic Issue #II.C.1

-2-

will use as its basis the IREP methodology but will extend the scope of the analysis to include a thorough common cause analysis. This will be a complete risk analysis including fire, floods, and seismic events, and the analysis of offsite consequences, and it will evaluate more fully the uncertainties in the analysis. The analysis will demonstrate and test improved PRA methods, codes, and data.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
RMIEP Program Plan details 39 task descriptions, program schedule, and deliverables.	-	11/83	12/83
Calvert Cliffs report (last report) issued concludes IREP Program efforts.	-	05/84	05/84
Issue closeout memo to EDO.	-	06/85	07/09/85*

\*Memorandum from R. Minogue for W. Dircks dated July 9, 1985 close-out Task Action Plan Item II.C.1. This issue is complete.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.C.2	Safety/ High	Complete	NRR/DST/RRAB	S. Israel	None
Title -----		Continuation of Interim Reliability Evaluation Program (IREP)			
Work Authorization ---		(awaiting Commission Directive).			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		None			
Affected Documents ---		None			
Status -----		A Commission paper proposing a pilot integrated Safety Assessment Program (ISAP) was issued in March 1984. See IV.E.5 milestones for completion.			
Problem/Resolution ---		The continuation of IREP as a separate entity is considered complete on the basis that its function will be absorbed by ISAP.			
Technical Resolution -		None			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Close out this issue by memo to EDO. See IV.E.5 for milestones necessary to complete this issue.	-	-	*

\*Memorandum from H. Denton for W. Dircks dated September 25, 1985 closed-out Task Plan Item II.C.2. This issue is complete.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.C.4	Safety/ Medium	Active-L1	RES/DRAO/RRB	C. E. Johnson	None
Title -----		Reliability Engineering			
Work Authorization ---		TMI Task Action Plan			
Contract Title -----		Operational Safety Reliability			
Contractor Name/ FIN No. -----		Argonne National Laboratory, A-2242 Brookhaven National Laboratory, A-3282			
Work Scope -----		<p>Evaluate the effectiveness of reliability program elements and techniques applicable to maintaining LWR safety during the operating life of the plant. Tasks include:</p> <ul style="list-style-type: none"> <li>a. Case studies to identify, from discussions with utilities, reliability techniques that utilities have found to be effective, the kinds of issues that utilities are addressing with reliability techniques, and the attributes of successful programs.</li> <li>b. Trial application of a reliability program, initially applied to one safety system at one plant, and subsequently applied to several safety systems at one plant.</li> <li>c. Publish a NUREG assessing the effectiveness of reliability program elements and the attributes of successful programs.</li> </ul>			
Affected Documents ---		To be determined based on the results of this project.			
Status -----		Case studies and initial trial application are in progress.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Discuss with INPO the needs to develop agreement (See U.S. Nuclear Regulatory Commission Policy and Planning Guidance 1983, NUREG-0885, Issue 2, pages 11 and 12).	06/83	-	11/83
Research generic reliability methodology.	12/83	03/84	04/84

As of Fourth Quarter FY-85

## Generic Issue #II.C.4

-2-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Survey/adaptation of reliability techniques & identification of reliability program elements for detailed evaluation.	06/84	-	02/85
Begin trial use.	12/84	-	07/85
Publish evaluation of the effectiveness of reliability program elements applicable to the safety of operating LWRs and the attributes of successful programs.	-	12/86	-
Draft NUREG for staff review and comments.	-	03/87	-
ACRS Subcommittee review	-	05/87	-
Publish final NUREG	-	12/87	-
Issue close-out memo to EDO	-	12/87	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.E.2.2	Safety/ Medium	Complete	RES/DAE/RSRB	L. M. Shotkin	None

Title ----- Research on Small Break LOCAs and Anomalous Transients

Work Authorization --- TMI Task Action Plan

Contract Title ----- None

Contractor Name/  
FIN No. ----- None

Work Scope ----- Conduct research to improve the understanding of small-break LOCA and other reactor transients and to improve calculational methods used to determine the course and consequences of these transients. Improve our ability to determine the effect of various system failures and/or operator actions on the severity of the transients and to better understand ways to mitigate the consequences of these transients. The ultimate goal is to provide tools (e.g., validated computer codes) to evaluate operator guidelines and safety systems and to provide input to risk assessment programs.

Affected Documents --- 10 CFR Part 50 and Appendix K deals primarily with the large-break LOCA under a single failure assumption. This research will provide a basis for revision of licensing rules to better treat multiple failures, including operator actions, and transients other than the large-break LOCA.

Status ----- The integral experimental programs, both existing and new, have been directed toward simulation of these transients. Two small-break scoping tests were completed in the Two Loop Test Apparatus (TLTA) in 1980 to assist in evaluating BWR operator guidelines. The Semiscale program conducted tests from 1980 to 1983 to aid in the understanding of the effects of tripping the pumps during small-break LOCA's in PWRs, small-break LOCA's with UHI, natural circulation, intermediate-breaks, and secondary side initiated transients. The LOFT program has conducted a number of operational transients, ATWS, and small and intermediate size LOCA's.

Several new experimental programs have been initiated to study small-breaks and operational transients. The TLTA has been upgraded to the Full Integral Simulation Test (FIST) to improve the capability to simulate these transients. A new integral facility modeling the B&W NSSS is being designed to study the aspects of these transients unique to B&W plants. The MB-2

As of Fourth Quarter FY-85

## Generic Issue #II.E.2.2

-2-

facility is a separate effects facility investigating the influence of the steam generators on these transients. The Semiscale facility and the LOFT program (through the consortium) will also continue to investigate operational transients.

Computer codes such as TRAC and RELAP-5 have been improved in order to calculate the effects of small-breaks and operational transients. Existing experimental data have been used extensively to assess the codes' capabilities and identify improvements. Future code improvements will include upgrade of the nuclear kinetics and balance of plant models to improve the simulation capability for operational transients. As these computer codes near completion, future emphasis will be on application of these codes to evaluate various plant transients. The plant analyzer and plant data banks will make these codes user oriented and allow calculations of plant transients in faster than real time.

Problem/Resolution --- None

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>For Test Facilities</u>			
Start FIST Testing	04/82	-	11/82
Complete FIST Phase I Testing	06/83	-	05/83
Complete FIST Phase II Testing	06/84	06/84	07/84
Complete B&W 2 X 4 Facility	08/85	09/85	-
Complete B&W 2 x 4 Testing	08/86	09/86	-
Complete MB-2 Testing	07/84	12/84	12/84
<u>For Computer Codes</u>			
TRAC-BD1/MOD1 Release (BWR Small-Break)	09/83	10/83	10/83
Independent Assessment of TRAC-BD1/MOD1	09/84	09/86	-
TRAC-BF1 Release (BWR Transient) (Interim)	03/84	10/84	10/84

As of Fourth Quarter FY-85



## Generic Issue #II.E.2.2

-3-

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Independent Assessment of TRAC-BF1	09/86	09/86	-
Plant Analyzer for TRAC-BF1	09/86	09/86	-
TRAC-BD1 Release (BWR Transient) (Final)	09/80	-	02/81
RELAP5/MOD2 (PWR Transient Capability)	12/83	09/83	09/83
Independent Assessment of RELAP5/MOD2	06/85	06/85	-
Plant Analyzer for RELAP5/MOD2	09/85	09/85	-
TRAC-PF1/MOD1 (PWR Transient)	06/83	09/83	09/83
Independent Assessment of TRAC-PF1/MOD1	09/84	09/84	11/84
Plant Analyzer for TRAC-PF1/MOD1	09/85	-	-
Issue close-out memo to EDO	-	06/85	07/25/85*

\*Memorandum from A. Minogue for W. Dircks dated July 25, 1985 closes out Task Action Plan Item II.E.2.2. This issue is complete.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.E.4.3	Safety/ High	Active-L1	NRR/DSI/CSB	Y. S. Huang	52409
Title -----		Containment Design - Integrity Check			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G).			
Contract Title -----		1. Reliability Analysis of Containment Isolation Systems 2. Feasibility Study of Alternative Containment Test Methods			
Contractor Name/ FIN No. -----		1. Pacific Northwest Laboratories/FIN No. B-2526 2. Sandia National Laboratory/FIN No. A-1802			
Work Scope -----		To determine whether a gross containment leak test should be required. In order to accomplish this task the following sub-tasks will be performed under T/A contract:  Task 1: Collect operating data and information;  Task 2: Establish the expected frequency of undetected breach of containment integrity and the expected frequency of containment unavailability and their uncertainty bounds; and  Task 3: Evaluate the feasibility of alternative containment test methods for periodically verifying the containment integrity.			
Affected Documents ---		Not Yet Determined			
Status -----		On 06/20/83, contract with PNL was initiated for tasks 1 and 2 above. The results of the PNL study were published in NUREG/CR-4220.  The CSB review of the PNL report and associated data base confirms that the reliability of containment integrity with regard to gross leakage is still a valid concern. As a result, in December 1984, the CSB requested a proposal from SNL to evaluate the feasibility of alternative containment test methods (Task 3 above). The SNL proposal was reviewed and accepted by the CSB in May 1985, and the contract with SNL was initiated immediately.  The SNL contract is scheduled to be completed in September 1986. The results of the SNL study will be used by the CSB			

# Generic Issue #II.E.4.3

- 2 -

staff to formulate the licensing bases for requiring alternative or additional containment leakage rate test. Affected NRC documents will be identified and final technical resolution and milestones will be developed.

Problem/Resolution --- The milestones for technical resolution are based on the projected completion date for Task 3. This milestone will determine whether issue will be closed-out or whether additional milestones are needed to develop new regulatory requirements.

Technical Resolution - The results of this study will be used to determine what kind of gross containment leak test should be required and how it should be implemented. If necessary, a program will be initiated to develop revisions to the appropriate Regulatory Guides, Standard Review Plan Sections, and Standard Technical Specifications.

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Request for Proposal for Tasks 1&2 Issued.	-	-	01/12/83
Evaluation of Proposals for Tasks 1&2 Completed	06/83	-	06/15/83
Issue Contract to Evaluate Reliability of Containment Integrity (Tasks 1&2)	07/83	-	06/24/83
Receive Contractor Draft Report on Review of Containment Integrity (Task 1&2)	02/15/84	05/84*	05/18/84**
Based on Review of Part 1 of Contractor Draft Report, Issue Memorandum closing out Issue, or Proposing the Need to Develop Additional Milestones for Resolution of the Issue, including the Initiation of Task 3 of the Work Scope.	04/15/84	07/84	08/08/84***

\*Revised schedule approved in Memorandum from R. Mattson to T. Speis, dated 02/24/84.

\*\*Part 1 of Draft Report (regarding Task 1) received; receipt of Part 2 of Draft Report (regarding Task 2) deferred to 9/84.

\*\*\*Memorandum from R. Bernero to T. Speis, dated 08/08/84, Transmitting Finding that Further Technical Resolution of the Issue is Warranted.

As of Fourth Quarter FY-85

## Generic Issue #II.E.4.3

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Request for Proposal for Task 3 Issued	11/84	-	12/84
Issue Contract to Evaluate Feasibility of Alternative Containment Test Methods (Task 3)	-	04/85	05/85
Milestones for Completion of Task 3 will be Developed after Contract is Issued	-	05/85	05/85
Receive contractors final report on the Feasibility Study for Alternative Containment Test Methods	-	09/86	-
Evaluate report on Alternative Containment Test Methods Feasibility. If Alternative Tests Methods are not feasible issue close-out memo to EDO. If feasible provide schedule for full scale testing/rulemaking	-	10/86	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.E.6.1	Safety/ Medium	Active-L1	NRR/DE/MEB	O. Rothberg	42416
Title -----		Test Adequacy Study			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G)			
Contract Title -----		To Be Determined in FY-85			
Contractor Name/ FIN No. -----		To Be Determined in FY-85			
Work Scope -----		(1) Survey industry practices and requirements for design, specification, qualification, and pre-operational and surveillance testing of valves in safety-related systems. (2) Comparison of the tests with performance requirements and specifications. (3) Identify performance requirements that are not adequately verified by analysis or test. (4) Evaluate alternate means of verifying performance. (5) Develop staff positions for additional periodic valve capability tests.			
Affected Documents ---		Revise R.G. 1.106, 10 CFR 50.55(g) and Standard Technical Specifications.			
Status -----		A complete milestone schedule has been drafted and was issued in a work plan memorandum on July 30, 1984.			
Problem/Resolution ---		Work on this generic issue has not progressed according to schedule because of the impact of resources diverted to reducing the backlog of ASME Section XI Inservice Testing Program reviews.			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Prepare Users Request for RES to contract for in plant pilot programs.	05/84	-	05/84

As of Fourth Quarter FY-85

## Generic Issue #II.E.6.1

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Review RES supplied DOE Lab proposals for pressure isolation valve leak tests and other testing. Provide recommendations to RES for revisions to test scope and selection of testing lab.	05/84	-	05/84
DE Project Manager prepares work scope for DOE Lab contract (re: study of adequacy of current valve inservice testing methods) and issues RFP.	-	07/85	07/85
DE contract initiated	-	10/85	-
DE contractor completes review of comments to be obtained from AEOD, INPO, BWR Licensees, valve manufacturers, determine tentative recommendation for revision or cancellation of R.G. 1.106, ASME Code, Standard Tech Specs to resolve Thermal Overload Protection Device Concern (TOPDC).	05/85	12/86	-
Issuance of ETEC DOE Lab report on PIV and MOV testing (RES contract).	09/85	07/86	-
Issuance of Movats report re in situ signature tracing tests (AEOD contract).	09/85	-	-
Completion of review of Movats reports by NRR including receipt of comments from AEOD.	11/85	-	-
Draft final staff positions and proposed tech specs re addition/modification to current valve in situ testing based on staff evaluation of input from DE, RES and AEOD contracts.	02/86	04/87	-

## Generic Issue #II.E.6.1

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Value/Impact statement prepared	-	04/87	-
NRR Division Directors Review completed	-	06/87	-
NRR Director Review completed	-	08/87	-
Review Package sent to CRGR	-	08/87	-
CRGR Review Completed	-	09/87	-
Issuance of proposed staff position and tech. specs	-	10/87	-
Public Comments resolved by staff	-	01/88	-
NRR Director review completed	-	03/88	-
Review Package sent to CRGR	-	03/88	-
CRGR Review completed	-	04/88	-
Final Register Notice issued	-	05/88	-
Issue close out memo to EDO	-	05/88	-

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.F.5	Safety/ Medium	Active-L1	RES/DET/EEICB	D. Basedekas	96005
Title -----		Classification of Instrumentation, Control and Electrical Equipment			
Work Authorization ---		TMI Task Action Plan Jan. 15, 1982 and Nov. 8, 1982, NRC Form 173, K. R. Goller, DFO			
Contract Title -----		Classification of Systems Important to Safety			
Contractor Name/ FIN No. -----		Brookhaven National Laboratory FIN.# A-3249			
Work Scope -----		To develop and issue rule to resolve important to safety issue.			
Affected Documents ---		Issue Important to Safety Rule			
Status -----		BNL work is in progress. Technical review and coordination assistance of work performed by IEEE and others, as well as assistance for development of Draft Reg. Guide provided to NRC/RES.			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Proposed Rule</u>			
Issue of Commission Information Paper regarding staff plans	12/84	12/84	12/84
Proposed Rule for DEDROGR Consideration (CRGR)	03/85	-	03/85
Proposed Rule to EDO	04/85	-	03/85
Proposed Rule to Commission (See WITS 840164)	04/85	-	04/85
RES reassumes responsibility for Resolution	-	-	09/85
Commission Review and Approval	04/85	07/85*	-
Proposed Rule Sent to Register	04/85	07/85*	-

As of Fourth Quarter FY-85

## Generic Issue #II.F.5

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issuance of Proposed Rule Press Release Congressional Letters	04/85	07/85*	-
Close of Comment Period	06/85	09/85*	-
<u>Final Rule</u>			
Complete Analysis of All Comments	07/85	10/85*	-
Revised Rule for Interoffice Comment	07/85	10/85*	-
ACRS Review and Comment	07/85	10/85*	-
Revised Rule for DEDROGR Consideration (CRGR)	07/85	10/85*	-
Revised Rule to EDO	07/85	10/85*	-
Commission Review and Approval (Includes ACRS Comments)	08/85	11/85*	-
Issuance of Final Rule	09/85	12/85*	-
Issue close-out memo to EDO	-	01/86*	-

\*Issue transferred back to RES for resolution, milestones necessary for resolution will be provided by RES.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.H.2	Safety/ High	Active-L1	RES/DAE/FSRB	R. Foulds	None
Title -----		Obtain Technical Data on the Conditions Inside the TMI-2 Containment Structure			
Work Authorization ---		TMI Task Action Plan LRRP, Budget Authorization Documentation			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<p>NRC is cooperating with DOE and industry on development of plans and guidance for implementation of 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 for this case. The programs address the examination of the reactor internals (especially the reactor core and fuel), the primary system piping and vessel, the dose reduction effort during decontamination, and various mechanical, electrical and instrumentation equipment. NRC primarily provides technical expertise in the program formulation and implementation, the programs are generally carried out with funds from DOE and others.</p>			
Affected Documents ---		NUREG-0900 Severe Accident Research Plan (08/84).			
Status -----		<p>Several dozen information reports have been issued by EG&amp;G Idaho for DOE as a series of GEND reports numbered GEND-001, et. seq. (GEND indicated: General Public Utilities, Electric Power Research Institute, Nuclear Regulatory Commission, and Department of Energy - who are cooperating in a number of technical working groups to manage the planning.) Current efforts are concentrating on final plans for TMI-2 core examination both on-site and off-site. NRC will conduct a series of off-site examinations of selected core materials at a national laboratory. A planning basis for work to be supported by NRC and separately by DOE has been developed including a priority analysis. Implementation within NRC depends upon an agreement on scope and availability of samples from DOE.</p>			

Generic Issue #II.H.2

- 2 -

Problem/Resolution --- Lack of full funding support for projected operations in the utility's recovery/cleanup program delay the availability of data. An industry supported technical advisory group is assisting the utility in the engineering projects required, to speed the cleanup effort. Examination of detailed test description and information needs by DOE, EPRI, GPU, NRC, technical working group has delineated a priority based plan that can be implemented by NRC & DOE within anticipated funding limits. Performance of lower priority tasks depends on DOE success in seeking foreign and industrial support.

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Revised Core examination plan (DOE Responsibility)	04/83	10/84	10/84
Head Removal	07/83	08/84	07/84
Plenum Removal	-	07/85	05/85
Revise core examination plan	-	11/85	-
Core Sampling	-	11/85	-
Defueling	-	02/86	-
Final Fuel Analysis Report	-	08/86	-
Issue close-out memo to EDO	-	12/86	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
II.J.4.1	Safety/ NR	Active-L1	IE/DEPER/EAB	J. Zudans	None
Title -----		Revise Deficiency Reporting Requirements			
Work Authorization ---		TMI Action Plan			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		<p>NRC will revise, as necessary, the reporting requirements of 10 CFR part 50.55(e) and 10 CFR Part 21 to assure that all reportable items are reported promptly and that the information submitted is complete. A major objective will be to eliminate duplicative evaluation and reporting and establish consistency with the NRC safety deficiency reporting requirements. The reports received as a result of these rule changes will provide increased information on component failures that affect safety so that prompt and effective corrective action can be taken. The information will also be used as input to an augmented role of the NRC's vendor and construction inspection program.</p> <p>IE/EAB has obtained office concurrences in the proposed revision to 10 CFR Part 21 and 10 CFR Part 50.55(e) and has submitted the proposed revision to the CRGR. After CRGR review and Commission approval, the proposed 10 CFR Part 21 and 10 CFR Part 50.55(e) rules will be issued for public comment by a <u>Federal Register Notice</u>.</p>			
Affected Documents ---		10 CFR Part 21 and 10 CFR Part 50.55(e)			
Status -----		<p>The proposed rule was transmitted for Office concurrence by Memorandum for all Office Directors from R. C. DeYoung, "Proposed Rule Concurrence Request - 10 CFR Part 21 and 10 CFR Part 50.55(e)," "Reporting of Defects and Non-compliance" and "Reporting Defects in Design and Construction" respectively, dated November 30, 1984. Concurrences from all offices have been obtained. The proposed rule was submitted to CRGR on June 5, 1985. On July 8, 1985, CRGR met and concluded that the staff should make several changes agreed to by all parties and then should proceed with issuance for public comment. Currently the staff is reviewing the rule to reflect the conclusions of the CRGR meeting and expects the package to go to the EDO for signature by September 27, 1985.</p>			

## Generic Issue #II.J.4.1

- 2 -

Problem/Resolution --- Schedule revised to reflect delay caused by temporary reassignment of task manager to other high priority work.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Office concurrence complete	04/83	03/85	06/85
Transmitted to CRGR for review	-	-	06/05/85
CRGR Review Complete	05/83	07/85	07/08/85
Paper to Commission	05/83	09/85	-
Issue <u>Federal Register</u> Notice of Proposed Rule changes for public comment	06/83	10/85	-
Comments Received	08/83	12/85	-
Comments Incorporated	10/83	01/86	-
Office concurrence for Final Rule	-	03/86	-
CRGR Review Complete	-	04/86	-
Final Rule to Commission	-	05/86	-
Issue <u>Federal Register</u> Notice for issuance of Final Rule	-	06/86	-
Rule is effective, issue close-out memo to EDO	-	08/86	-

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
III.A.1.3 Subtask 2	Safety/ NR	Complete	IE/DEPER/EPB	D. B. Matthews	None

Title ----- Maintain Supplies of Thyroid-Blocking Agent For Public

Work Authorization --- TMI Task Action Plan

Contract Title ----- None

Contractor Name/  
FIN No. ----- None

Work Scope ----- Maintain Supplies of Thyroid-Blocking Agent  
(Potassium Iodide)

The Department of Health and Human Services (DHHS) will develop recommendations for the use of stable iodine for thyroid-blocking to determine what amount of the drug provides an effective dose for thyroid-blocking, the chemical form which the drug should be administered, the medical risk in administering the drug to large numbers of people without medical risk of administering the drug. The NRC will examine various accident scenarios and compare the results of using potassium iodide (KI). FEMA and NRC will develop a position with regard to the use of KI for thyroidal blocking by the general public.

Affected Documents --- None

Status ----- The DHHS has completed its work and has recommended the administration of a dose of 130 milligrams of KI per day for adults and children older than one year of age as a safe and effective thyroidal blocking technique. In addition it has stated that the risk of the radiation dose to the thyroid exceeds the medical risk of administering the drug without medical supervision at a thyroid dose of 25 rem. Sandia Laboratories completed the cost-benefit study which showed that the use of KI is not cost beneficial. NRC and FEMA have recommended the use of KI for emergency workers, both onsite and offsite as well as for institutionalized personnel within the 10 mile EPZ who would be difficult to evacuate. This recommendation was published in November 1980. A draft federal position on the use of KI by the general public was developed in July 1982, but the NRC staff did not agree with it and has completed another study on the cost-benefit of its use. This study has been forwarded to the Commission recommending that the Commission oppose the distribution of KI for use by the general public.



## Generic Issue #III.A.1.3 (2)

- 2 -

Problem/Resolution --- See Note below

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Completed Study	-	-	01/83
Submit Study to CRGR and EDO for approval	-	-	01/31/83
Submit to ACRS	-	-	02/01/83
NCRP review completed	05/83	-	05/83
ACRS review complete	05/83	-	05/17/83
Study revised and submitted to the Commission	07/83	-	08/31/83
Staff brief Commission on study	-	-	11/22/83
Commission reviews new draft policy statement	-	04/85*	05/13/85
Commission concurrence in new draft Policy Statement	-	-	06/11/85
FEMA Published Final Policy Statement in Federal Register (Notice 50FR-30258)	-	-	07/24/85
Issue Close-out memo to EDO	-	-	08/15/85**

\*Commission Paper SECY-83-362A forwarded to the Commission a staff recommendation against requiring predistribution of Potassium Iodine (KI) for use by the general public. In a memorandum transmitted to the Commission from William J. Dircks, "Supplementary Information Regarding Use of the Thyroid-Blocking Agent Potassium Iodine," the staff forwarded a revised Department of Energy position that agreed with the staff's recommendations for the use of KI. The Commission was also informed that the staff has met with the Federal Radiological Preparedness Coordinating Committee (FRPCC) to redraft the earlier FRPCC proposed policy statement. Based on this information, the Commission decided to review the new FRPCC draft policy statement on KI before making any recommendations to FEMA. The FRPCC draft policy statement has been reviewed by the staff and a negative consent commission paper (SECY-85-167, with attached FRPCC draft policy statement) was forwarded to the Commission and the Commission concurred in it on June 11, 1985.

\*\*Memorandum from James M. Taylor for W. Dircks dated August 15, 1985 closes-out Task Action Plan Item III.A.1.3(2). This issue is complete.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
III.D.2.3 (1 thru 4)	Safety/ NR	Complete	NRR/DE/EHEB	R. Wescott	51885
Title -----		Liquid Pathway Radiological Control (NRR)			
Work Authorization ---		NRR Operating Plan. (Appendix F, Part B)			
Contract Title -----		Review Liquid Pathway Analysis for Indian Point Safety Study			
Contractor Name/ FIN No. -----		PNL/B-2511, B-2357 and B-2454 Columbia University/B-8644 ANL/A-2108			
Work Scope -----		Improve public radiation protection in the event of a nuclear power plant accident by improving the control of dissolved radionuclides released to the liquid pathway as a result of groundwater contamination, by assessing the fate of radionuclides both with and without pathway interdiction. Also consider the relative importance of airborne contamination of the liquid pathway.			
Affected Documents ---		(1) Develop revised draft criteria/guidelines on Liquid Pathways. (2) Update Environmental Standard Review Plans (3) Issue 2 NUREGS on groundwater mitigation			
Status -----		Liquid pathway analyses have been completed for Zion, Indian Point and about 30 near term OL's and operating plants. Technical Assistance and research contract are resolving problems of groundwater mitigation. Revision of a Criteria/Guideline manual is being prepared for publication as a NUREG. Two reports on groundwater mitigation are being edited in preparation to publication as NUREGs. Issue is now scheduled for completion this fiscal year with the issuance of an Environmental SRP.			
Problem/Resolution ---		None			

## Generic Issue #III.D.2.3

- 2 -

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Indian Point Licensee requested to study Liquid Pathway at plant.	-	-	06/80
Staff begins review and independent study of Indian Point liquid pathway.	-	-	05/80 thru 03/82
Zion liquid pathway analysis completed.	-	-	08/81
First Draft of Branch Technical Position on Liquid Pathway Analysis.	-	-	12/81
Indian Point Probabilistic Safety Study Issued, Containing study requested by staff (Chapter 6.7).	-	-	02/82
Fermi 2 FES supplement published has first staff analysis of airborne liquid pathway.	-	-	03/82
Staff requests technical assistance from PNL on Indian Point groundwater modeling.	-	-	04/82
Research issues contract with PNL to extend ANL technical assistance work on groundwater mitigation methods (B2454).	-	-	05/82
Technical Assistance draft report from ANL on Slurry Wall Barriers.	-	-	05/82
PNL issues draft report on Indian Point groundwater modeling.	-	-	07/82
Technical Assistance draft report from ANL on other Groundwater Interdiction Methods completed.	-	-	09/82
Staff completes written testimony on Indian Point liquid pathway.	-	-	01/83
ASLB hearing on Byron Nuclear Plant	04/83	-	05/24/83

As of Fourth Quarter FY-85

MSPP I-9:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 9

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier D. Persinko	57269

Subtask: MSPP:I.9

Title: Human Error in Events Involving Wrong Unit or Wrong Train (Generic Issue 102)

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: None

Contractor Name/FIN: N/A

Work Scope: In January 1984, the Office of Analysis and Evaluation of Operational Data (AEOD) issued a special study report describing a number of events that resulted from human error in removing equipment from service or restoring equipment following maintenance that involved the wrong unit or wrong train of equipment being rendered unavailable. Although the scope of the study was narrow, AEOD found that 19 out of 27 events identified resulted from human error during maintenance and surveillance testing. AEOD considered such events to be examples of events that could have high safety significance due to potential loss of safety system functions.

As part of the project, the Maintenance Section will identify existing practices that may lead to human errors involving wrong unit/wrong train and to recommend improvements that may be appropriate. The scope of this project will include review operating experience, conduct site visits, interview licensee personnel of a select number of plants to determine the extent and nature of loss of safety function resulting from errors involving the wrong unit/wrong train and will identify actions for resolution of the Generic Issue or for further investigation.

Affected Documents: Report to the EDO, April 1986

Status: Three trips have been completed and two reports have been issued.  
All other trips have been scheduled.

Problem/Resolution: None

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Identify Concern and Develop Plan for Action for Resolution	4/17/85		4/17/85
Develop Site Visit Protocol	5/1/85		5/1/85
Perform Site Surveys as Follows:			
1.a. Site Visit to Dresden	5/9/85		5/9/85
b. Prepare Trip Report			
2.a. Site Visits to Surry and North Anna	6/20/85		6/20/85
b. Prepare Trip Report	9/20/85		
3.a. Site Visits to Salem and Peach Bottom	7/26/85		7/26/85
b. Prepare Trip Report	10/31/85		
4.a. Site Visits to Calvert Cliffs	10/1/85		10/1/85
b. Prepare Trip Report	10/18/85		
5.a. Site Visits to Oconee and McGuire	10/25/85		
b. Prepare Trip Report	12/20/85		
6.a. Site Visits to D.C. Cook and LaSalle	11/15/85		
b. Prepare Trip Report	1/17/86		
7.a. Site Visits to Turkey Pt. and Browns Ferry	11/22/85		
b. Prepare Trip Report	1/31/86		
Issue Draft Report for Management Review	2/28/86		12/15/85
Issue Final Report	3/28/86	2/15/85	
Incorporate Results into EDO Report	4/1/86		

## Generic Issue #III.D.2.3

- 3 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Prepare revised Criteria/ Guidelines for Liquid Pathway Analysis.	06/83	08/84	08/84
Develop a new Environmental SRP for use in Class 9 Liquid Pathway evaluations. Since these ESRP's would not impose any additional burden on licensees but rather document current staff practice in implementing the interim Commission policy on Class 9 accidents (F.R. Vol. 45, No. 116, pp. 40101-40104) we would not plan for a formal CRGR review.	03/84	09/84	09/84
Issue memorandum to W. Dircks requesting concurrence in printing and publication of ESRP with a Federal Register Notice Announcement.	-	09/84	10/29/84
Per informal CRGR staff recommen- dation, solicit NMSS comments on ESRP.	-	01/85	01/85
CRGR meeting to approve recommen- dation that CRGR need not review ESRP and that NRR issue ESRP for public comment.	-	01/85	01/85
Issue ESRP for public comment.	-	04/85	05/85
Public comment incorporated into ESRP.	-	07/85	08/85
Issue Federal Register Notice for issuance and availability of ESRP	-	09/85	09/85
Issue Close-out memo to EDO	-	09/85	08/28/85*

\*Memorandum from H. Denton to W. Dircks dated August 28, 1985 closed-out Task Action Plan Item III.D.2.3 (1 thru 4). This issue is complete.

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
III.D.3.1	Safety/ High	Active-L1	NRR/DSI/RAB	R. J. Serbu	42928
Title -----		Radiation Protection Plans			
Work Authorization ---		NRR FY-84 Operating Plan (Appendix G).			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Finalize a "Letter of Agreement" which outlines the relationship between INPO and the NRC during the period when INPO will actively assist licensees in implementing ALARA-integrated radiation protection programs. Develop an auditing method whereby the NRC can assess INPO/industry progress and success in achieving ALARA integrated radiation protection programs.			
Affected Documents ---		<u>Directly Related Documents</u> <ol style="list-style-type: none"> <li>1. "Memorandum of Agreement Between INPO and the USNRC" (April 1, 1982), Appendix Number Three, "Coordination Plan for Radiological Protection Activities" (March 3, 1983).</li> <li>2. NUREG-0761 (draft March 1981) - revised into Regulatory Guide format as R.G.8.XX.</li> <li>3. R.G. 8.XX - revise and hold for issue pending success of INPO/Industry.</li> <li>4. "Development of a Program to Evaluate Industry Efforts to Achieve Successful ALARA-Integrated Radiation Protection programs," (R. J. Mattson, June 16, 1983). - Action Plan/Assessment Method - developed to evaluate INPO/industry progress and success in implementing ALARA integrated radiation protection programs.</li> <li>5. "Evaluation of Industry Efforts to Achieve Successful ALARA Integrated Radiation Protection Programs" (April 23, 1985, D. R. Muller to Division Directors) - criteria, worksheets and examples for Regions to evaluate aspects of industry radiation protection programs.</li> </ol>			



Generic Issue #III.D.3.1

- 2 -

6. "Request for the Regions to Assist in the Evaluation of Industry Success in Achieving ALARA-Integrated Radiation Protection Programs at Power Reactors" (H. L. Thompson to DRP Division Directors, May 8, 1985).
7. "Request for Research Assistance in Establishing a Radiological Data Base" (H. R. Denton to R. B. Minogue - in concurrence).

Status -----

A "Coordination Plan for Radiological Protection Activities," effective March 3, 1983, has been prepared by NRC/INPO staffs and approved by the NRC EDO and the President, INPO as Appendix 3 to the NRC/INPO Memorandum of Agreement dated April 1, 1982. A Commission Information Paper discussing the Coordination Plan and related staff actions was provided to the Commission by the NRC staff. Following coordination between NRR, RES, IE, and the Regions, a program to evaluate INPO/industry efforts under the Coordination Plan was promulgated (R. J. Mattson letter dated June 16, 1983, "Development of a Program to Evaluate Industry Efforts to Achieve Successful ALARA - Integrated Radiation Protection Programs"). The staff completed a topical review of NRC and INPO radiation protection/ALARA guidance (letter Congel to Muller dated June 30, 1983), and established a schedule with IE and INPO in June 1983 to accompany INPO site visits beginning in September of 1983. NRR Staff members have accompanied INPO personnel, as observers, during their INPO site evaluations during the period October 1983 through March 1985.

Regulatory Guide 8.XX (NUREG-0761) and Revision 4 of Regulatory Guide 8.8 have been held in abeyance, and the NRC staff has proposed delaying any consideration of rulemaking regarding radiation protection plans until the upcoming major revision of Part 20 is promulgated. The NRC staff is continuing its evaluation of industry's radiation protection/ALARA efforts under its evaluation programs as planned. If the staff evaluations find the INPO/industry effort successful, the issue will be considered to be resolved. If the staff evaluations find the INPO/industry effort not to be successful, the staff will resume efforts to promptly issue R.G. 8.XX and pursue related rulemaking.

Based on staff experience with the NRC/INPO Coordination Plan and evaluation program, the staff intends to research, format and analyze existing NRC information sources to establish a radiological data base which will (1) provide an NRC-originated source of radiological data, (2) broaden our overall trending and analysis capability in radiation protection,

Generic Issue #III.D.3.1

- 3 -

(3) support future cooperation with INPO by supplementing our data sharing with INPO, and (4) provide further capability to validate the findings and conclusions of our industry evaluation program.

The staff is presently compiling, trending and evaluating radiological data for 6 of 11 criteria, since that data is available from NRC sources, and INPO data cannot be released to the NRC for the public record. Data processing should be completed by RAB in September, 1985.

Problem/Resolution ---

Information essential to the evaluation process has been developed by INPO and reviewed with the NRR staff on April 1, 1985 - an earlier date would not have been consistent with existing INPO reporting requirements for utilities. This necessitated adjusting the original 03/85 evaluation of INPO/industry success in achieving ALARA-integrated radiation protection programs (and subsequent milestones) to 09/85 to enable the staff to review and integrate this data, perform an evaluation, and publish the results. The free flow of information from INPO has been hampered by INPO's reluctance to provide proprietary information to the NRC (in summary or detail) which could then be requested under FOIA by intervenor groups, or compiled and analyzed by NRC staff for regulatory purposes.

Either circumstance would result in INPO's efforts being applied against the best interests of the industry INPO represents. While the NRC staff had originally intended to validate and use INPO data in conjunction with NRC-originated data, it is now necessary for NRC staff to generate all data for evaluation criteria, in lieu of sharing the effort with INPO. This effort will result in extending the planned resolution of the issue until 11/85. The staff has proposed an effort to expedite the capability to compile and analyze NRC-originated data. Additional time is necessary to establish a radiological data base (i.e., 11/85), and NRR/RAB has assumed this development effort. RAB is presently compiling and analyzing data from NRC sources; however, only about half the eleven (11) criteria can be compiled from NRC sources; however, these appear adequate for the evaluation program. This issue, particularly since it may have generic implications for other Coordination Plans, has been reviewed by upper level management (DSI, DHFS, EDO) and discussed with INPO.

## Generic Issue #III.D.3.1

- 4 -

Technical Resolution - Milestones are as follows:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Draft Proposed Revised NRC/INPO Coordination Plan distributed for review and comment by OIE, RES, and Director, DSI.	-	-	01/19/83
Draft Plan to INPO Staff for review and comment.	-	-	01/26/83
Staff Recommendation to EDO to transmit proposed Coordination Plan to INPO (Follow-up to INPO (Wilkinson) letter dated August 26, 1983).	-	-	02/25/83
Coordination Plan signed and in effect.	-	-	03/03/83
Draft auditable criteria for ALARA/radiation protection evaluation of INPO Program, including ALARA checklists and evaluation criteria, distribute to IE, RES, and Regions for comment.	04/83	-	04/15/83
Revise evaluation criteria based on comments.	06/83	-	06/15/83
Complete a topical/functional comparison of INPO objectives, criteria and guidelines against NRC criteria.	06/83	-	-
Establish ALARA checklist parameter, SALP/inspection findings, etc., tracking system.	07/83	-	06/15/83
Establish schedule of NRC accompanied INPO Appraisals.	09/83	-	07/06/83
Draft criteria for determination of acceptability/unacceptability of INPO/Industry success.	10/83	-	06/15/83
Establish milestone for criteria approved process.	10/83	-	06/15/83

As of Fourth Quarter FY-85

Generic Issue #III.D.3.1

- 5 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Finalize criteria for determination of acceptability/unacceptability of INPO/Industry success.	12/83	-	06/15/83
*Receive INPO input	-	04/85	04/01/85
**Initiate radiological data base	-	09/85	-
***Evaluation of INPO/industry success completed.	03/85	11/85	-
Radiation Protection Plan RG either issued or withdrawn based on determination of success or failure of INPO/industry program	03/85	11/85	-
Technical Resolution Complete. (If program is acceptable, issue close-out documentation memo to EDO. If program is unacceptable, develop milestones necessary for approval for a Radiation Protection Plan Regulatory Guide.)	03/85	11/85	-

\*INPO data viewed by NRC staff, but not officially submitted to NRC by INPO.

\*\*Proposed effort still under review in NRR (Document #7 above).

\*\*\*NRC staff must identify, compile, and evaluate data and trends from solely NRC sources, duplicating INPO efforts. An additional 2 months are needed to incorporate this effort.

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
IV.E.5	Safety/ High	Complete	NRR/DL/SEPB	C. I. Grimes	40019
Title -----		Assess Currently Operating Reactors			
Work Authorization ---		NRR FY-84 Operating Plan (Section III)			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Develop a plan for the continuation of SEP.			
Affected Documents ---		None			
Status -----		<p>The SEP Phase II review of 10 plants (except San Onofre 1) was scheduled to be completed in FY83. The review of 9 plants has been completed; final IPSAR for expanded Big Rock Point review was issued 05/84. San Onofre 1 rescheduled to FY84 to accommodate licensee schedule reassessment (EDO 05/20/83 Program Guidance). Proposal for Integrated Safety Assessment Program (ISAP) to replace SEP III/NREP reviewed by CRGR 08/10/83 and submitted to the Commission on 03/23/84 (SECY 84-133). The Commission approved this report on 07/16/84. Congressional reports on SEP experience were issued 05/18/84.</p>			
Problem/Resolution ---		<p>SECY 84-133 describes a conceptual pilot program; the procedures and final implementation plan for ISAP requires approval by the Commission and authorization by Congress to use the budgeted resources. The NRR staff is maintaining contact with the Commission staff and OCA to ensure that any information required to support those actions is provided promptly.</p> <p>Close-out memorandum to EDO is being proposed.</p>			
Technical Resolution -		<p>The proposal for ISAP is intended to replace SEP and NREP. Although IREP (II.C.1) and NREP (II.C.2) are being monitored separately, all of these activities are related and will be coordinated together.</p>			
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Commission Paper on SEP II results for 4 plants.		11/30/82	12/30/82	EDO Cancelled	

As of Fourth Quarter FY-85

## Generic Issue #IV.E.5

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Brief Commission on SEP II results.	12/15/82	01/18/83	02/04/83
Commission Paper on SEP III proposal to Director, NRR.	06/30/83	-	06/30/83
Issue Commission Paper	07/83	-	03/23/84
Briefed Commission	-	-	04/05/84
Issue Report to Congress - SEP experience.	08/83	-	05/18/84
Commission Approval.	09/83	07/84	07/16/84
Issue close-out memorandum to EDO	-	06/85	*

\*Memorandum from H. Denton for W. Dircks dated September 25, 1985 closed-out Task Action Plan Item IV.E.5. This issue is complete.

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-1.1	Safety/ High	Active-L1	NRR/DHFS/LQB	C. Goodman	TBP
Title -----		Issue Policy Statement on Engineering Expertise on Shift and Evaluate Effectiveness of Policy Statement			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		None			
Contractor Name/ FIN No. -----		None			
Work Scope -----		Staff Prepare Policy Statement			
Affected Documents ---		None			
Status -----		Draft policy statement published in <u>Federal Register</u> July 25, 1983. Final policy statement sent to Commission in SECY 85-150 (April 26, 1985) awaiting Commission action.			
Problem/Resolution ---					
Technical Resolution -					
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2		09/85	11/85	-	



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask 1.2	Safety/ High	Active-L1	NRR/DHFS/LQB	C. Goodman	M40408 M40409 M40404

Title ----- Revise and Issue a Revision to Regulatory Guide 1.8

Work Authorization --- Memorandum for H. Thompson from H. Denton dated October 10, 1984 Human Factors Program Plan (HFPP)

Contract Title ----- Task S2 - Shift Crew Qualifications

Contractor Name/  
FIN No. ----- Pacific Northwest Laboratory/Fin No. B-2360

Work Scope ----- This issue incorporates the work scope of Task Action Plan Item I.A.2.6(1). The qualifications of the operating shift crew has been the object of numerous staff papers including: SECY-79-330-E-G, SECY-80-492, SECY-81-84 and 81-84A, SECY-82-162 and SECY-84-106, SECY-84-355 and SECY 85-50. In January, 1983, the Nuclear Waste Policy Act PL 97-425, Section 306 was signed into law. That law directed the NRC to promulgate regulations or other appropriate guidance for the qualification of NPP personnel including the operating shift crew.

Efforts related to the law and to close the issue of qualifications include preparation of a policy statement on training and qualifications and fitness for duty in response to §306, the industry will be responsible for (1) ensuring that personnel have qualifications appropriate to the performance requirements of the jobs to which they are assigned, (2) preparation of a policy statement on engineering expertise on shift (3) revision of Reg. Guide 1.8 to endorse ANS 3.1-1981, and (4) completion of a contractor study on the issue of job-related educational qualifications based on the results of existing JTA data.

Affected Documents --- Reg. Guide 1.8 Policy Statement Eng. Exp. on Shift  
NUREG/CR-Engineering Expertise

Status ----- Efforts to determine qualifications for other than operating shift crew staff, i.e., maintenance and technical personnel, have been initiated. A schedule for completing the regulatory actions has not yet been determined. SECY-84-106 was submitted to the Commission in March 1984 and was rejected in November 1984. The Commission directed the staff to obtain NUMARC comments on the Final Policy statement on Engineering expertise

## Generic Issue #HF-01 Subtask HFPP-1.2

- 2 -

on shift and return to the Commission. An information copy of the Final Policy Statement as agreed upon by the NRC staff and the Steering Committee of NUMARC was sent to the Commissioners on February 7, 1985 (SECY-85-50). The Chairman then directed that the Staff add a third option. The industry has rejected this third option. Two versions of a Final Policy Statement on Engineering Expertise on shift were sent to the Commissioners on April 26, 1985 (SECY-85-150). One version reflected NUMARC's proposal and the other version reflected the additional third option desired by the Chairman.

Problem/Resolution --- Regulatory Guide 1.8 may be delayed due to the extent of the revision following public comment.

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Recommendations of Peer Panel.	-	-	05/82
RES JTA Completion.	06/83	-	06/83
Draft Policy Statement on Engineering Expertise on Shift	06/83	-	07/83
Engineering Expertise on Shift report	09/83	12/83	12/83
Proposed Rule to Commissioners concerning requirements for Senior Managers	03/84	-	03/84
Final Policy Statement for Engineering Expertise on shift	01/84	04/85	04/85
Contractor report on job-related educational qualifications based on JTA data bases	-	11/84	12/84
Proposed revision to Regulatory Guide 1.8 published for public comment	-	02/85	01/85
Issue revised R.G. 1.8 for use	06/84	*	-
Issue close-out memorandum	-	*	-

\*Revision to Regulatory Guide 1.8 is being reviewed and approved as part of the 10 CFR 55 rule change package (HFPP-3.3 and 3.4).

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-1.3	Safety/ High	Active-L1	NRR/DHFS/LQB	J. Persensky	TBP

Title ----- Develop a Means to Evaluate Acceptability of NPP Personnel Qualifications Program

Work Authorization --- Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)

Contract Title ----- To Be Determined

Contractor Name/  
FIN No. ----- To Be Determined

Work Scope ----- Develop Review Guidance to be used by staff in post-accreditation reviews.

Affected Documents --- Policy Statement on Training and Qualifications (SECY 85-1)

Status ----- To Be Provided Later

Problem/Resolution --- To Be Provided Later

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-1.4	Safety/ High	Active-L1	NRR/DHFS/LQB	J. Persensky	TBP
Title -----		Review and Evaluate Industry Qualification Programs			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		Apply Review Guidance in post-accreditation reviews			
Affected Documents ---		Policy Statement on Training and Qualifications (SECY 85-1)			
Status -----		To Be Provided Later			
Problem/Resolution ---		To Be Provided Later			
Technical Resolution -					
<u>Milestones</u>		<u>Original</u>	<u>Current</u>	<u>Actual</u>	
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2		09/85	11/85	-	

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-2.1	Safety/ High	Active-L1	NRR/DHFS/LQB	TBP	TBP
Title -----		Evaluate Industry Training			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		Use new inspection modules and Training Review Guidance to inspect utility training products and in event-based reviews.			
Affected Documents ---		Policy Statement on Training and Qualifications (SECY 85-1)			
Status -----		Inspection Modules 41400 and 41701 issued and Training Review criteria and procedures developed.			
Problem/Resolution ---		To Be Provided Later			

## Technical Resolution -

<u>Milestone</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-C1 Subtask HFPP-2.2	Safety/ High	Active-L1	NRR/DHFS/LQB	TBP	TBP
Title -----		Evaluate INPO Accreditation Program			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		Monitor industry progress in achieving accreditation through observation of INPO team visits, performing post-accreditation reviews and monitoring indicators data.			
Affected Documents ---		Policy Statement on Training and Accreditation (SECY 85-1)			
Status -----		To Be Provided Later			
Problem/Resolution ---		To Be Provided Later			

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-2.3	Safety/ High	Active-L1	NRR/DHFS/LQB	J. Persensky	BP
Title -----		Revise Standard Review Plan Section 13.2.3			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			
Affected Documents ---		To Be Provided Later			
Status -----		On hold until effect of Policy Statement on Training and Qualifications is determined. Issue to be closed-out.			
Problem/Resolution ---		To Be Provided Later			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-3.1	Safety/ High	Active-L1	NRR/DHFS/OLB	B. Boger	M40428
Title -----		Develop BWR Job-Knowledge Catalogue (NUREG-1123)			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		Developments of NRC Reactor Operator Licensing Examination Specifications			
Contractor Name/ FIN No. -----		Professional Examination Service/D-1315			
Work Scope -----		Develop Job-Knowledge Catalogue using INPO BWR JTA, GE Morris Training Center, and Subject Matter Expert panel review.			
Affected Documents ---		None			
Status -----		Contract effective June 17, 1985			
Problem/Resolution ---		None			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Draft Catalogue for panel review	01/86	-	-
Final Draft for NRC review	03/86	-	-
Issue NUREG-1123	06/86	-	-
Issue Close-out Memorandum	07/86	-	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-3.2	Safety/ High	Active-L1	NRR/DHFS/OLB	B. Boger	M40428

Title ----- Develop Licensing Examination Handbook (NUREG-1121)

Work Authorization --- Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)

Contract Title ----- Development of NRC Operator Licensing Examinations Specifications

Contractor Name/  
FIN No. ----- Professional Examination Services/D1315

Work Scope ----- Review Examiner Handbook developed under FIN B-2517, evaluate pilot test; make recommendations for Examiner Standards (NUREG-1021)

Affected Documents --- Examiner Standards (NUREG-1021)

Status ----- Contract effective June 17, 1985

Problem/Resolution --- None

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Pilot Test begun	10/85	-	-
Pilot Test complete	03/86	-	-
Contractor recommendations	07/86	-	-
Final Pilot Test complete	09/86	-	-
Revise NUREG-1021	11/86	-	-
Issue Close-out Memorandum	12/86	-	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-3.3	Safety/ High	Active-L1	NRR/DHFS/OLB	B. Boger -	42454 49618 40435 56190

Title ----- Develop Criteria for NPP Simulators

Work Authorization --- Memorandum for H. Thompson from H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)

Contract Title ----- "Development of an NRC Simulation Facility Evaluation Program"

Contractor Name/  
FIN No. ----- Microanalysis and Design/D1317

Work Scope ----- This item is addressed by activities currently underway in response to Section 306 PL 97-425, and by FIN D-1317. Specifically, proposed changes to 10 CFR Part 55, recommended changes to Regulatory Guide 1.149, "Nuclear Power Plant Simulator Facilities for use in Operator License Examinations," and results expected from a technical assistance contract titled "Development of an NRC Simulation Facility Evaluation Program," addressed this issue. Milestones necessary to complete this issue are provided in HFPP issue 01-3.2.

Affected Documents --- None

Status ----- Proposals for D-1317 are being evaluated. Public comment period for 10 CFR Part 55 and Reg. Guide 1.149 expires March 15, 1985. Comments are being incorporated.

Problem/Resolution --- None

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>For 10 CFR part 55 and RG 1.149:</u>			
End of Public Comment Period	03/85	-	03/85
Division Review	10/85	-	-
Office Review	12/85	-	-
CRGR Review	12/85	02/86	-

As of Fourth Quarter FY-85

Generic Issue #HF-01 Subtask HFPP-3.3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>For D-1317:</u>			
RFP issued	03/85	-	03/85
Contract awarded	08/85	09/85	09/85
Eval. Plan for ANS-3.5 simulators	12/86	01/87	-
Eval. Plan for Non-ANS-3.5 simulators	02/87	03/87	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-3.4	Safety/ High	Active-L1	NRR/DHFS/	TBP	TBP
Title -----		Training Requirements (Revise 10 CFR 55, RGs 1.149 and 1.8)			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			
Affected Documents ---		To Be Provided Later			
Status -----		To Be Provided Later			
Problem/Resolution ---		To Be Provided Later			

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-3.5	Safety/ High	Inactive-L1	NRR/DHFS/OLB	TBP	TBP
Title ----- Develop Computerized Examination System					
Work Authorization --- Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)					
Contract Title ----- To Be Determined					
Contractor Name/ FIN No. ----- To Be Determined					
Work Scope ----- To Be Provided Later					
Affected Documents --- To Be Provided Later					
Status ----- Deferred. No funds in FY-1985 budget.					
Problem/Resolution --- To Be Provided Later					

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-4.1	Safety/ High	Active-L1	NRR/DHFS/PSRB	J. Bongarra	TBP

Title ----- Inspection Modules for Upgraded Procedures

Work Authorization --- Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)

Contract Title ----- To Be Determined

Contractor Name/  
FIN No. ----- To Be Determined

Work Scope ----- To Be Provided Later

Affected Documents --- To Be Provided Later

Status ----- To Be Provided Later

Problem/Resolution --- To Be Provided Later

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

As of Fourth Quarter FY-85



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-4.2	Safety/ High	Active-L1	NRR/DHFS/PSRB	M. Goodman -	48436
Title -----		EOP Effectiveness Evaluation			
Work Authorization ---		Memorandum for H. Thompson from H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)			
Contract Title -----		Revise the Inspection Module and Develop Associated Training for Regional Audit of EOPs			
Contractor Name/ FIN No. -----		Not applicable			
Work Scope -----		Revise current I&E inspection modules to reflect changes required to audit upgraded EOPs and EOP development programs. Assist with training of I&E inspectors in the use of revised inspection modules.			
Affected Documents ---		NRC I&E inspection module. Possible revision to SRP Section 13.5.2.			
Status -----		Two EOP audit completed.			
Problem/Resolution ---		Delay in scheduling a third EOP audit may cause schedule to change. Alternate sites being considered for third audit.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issue revised SRP Section 13.5.2	08/84	-	08/84
Complete inspection module revision	09/84	09/85	-
Assist I&E in conducting inspection training	01/85	10/85	-
Implement Inspection Module	-	01/86	-
Issue close-out memorandum	-	02/86	-

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-4.3	Safety/ High	Active-L1	NRR/DHFS/PSRB	TBP	TBP

Title ----- Criteria for Safety Related Operator Actions (B-17)

Work Authorization --- Memorandum for H. Thompson from H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)

Contract Title ----- To Be Determined

Contractor Name/  
FIN No. ----- To Be Determined

Work Scope ----- To Be Provided Later

Affected Documents --- To Be Provided Later

Status ----- To Be Provided Later

Problem/Resolution --- To Be Provided Later

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
DHFS has Issued a memorandum to RES transferring B-17 to their office.	02/84	-	03/22/84
RES issued memorandum transferring B-17 to NRR/DHFS/PSRB	-	-	04/17/85
Incorporate B-17 into HFPP	-	-	06/07/85
Schedule and milestones dates will be developed based on approval of NUREG-0985 Revision 2.	-	11/85	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-4.4	Safety/ High	Active-L1	NRR/DHFS/PSRB	M. Goodman	55402
Title -----		Guidelines for Upgrading Other Procedures			
Work Authorization ---		Memorandum for H. Thompson From H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)			
Contract Title -----		Develop guidance and regulatory action for OPs and AOPs			
Contractor Name/ FIN No. -----		Battelle Pacific Northwest Laboratories (PNL)/B-2360, D-2			
Work Scope -----		Recommend improvements in nuclear power plant operating procedures and develop an implementation plan for upgrading operating procedures.			
Affected Documents ---		Not yet determined. Possible revision to SRP Section 13.5.2			
Status -----		Task 1 (Define Scope of Project and Refine Project Focus), Task 2 (Review Existing Data Base) have been completed. Task 3 (Define Current Industry Practices and Problems) and Task 4 (Select and Convene Project Peer Review Group) have been completed with the exception of reviewing sample plant procedures (task 3, subtask h)			
Problem/Resolution ---		None			
Technical Resolution -		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 costs and benefits.			

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Issued contract to PNL to develop guidelines for upgrading operating procedures.	-	-	02/01/83
Define scope of operating procedures	-	-	01/31/84
Submit a summary letter report	-	-	01/31/84

## Generic Issue #HF-01, Subtask HFPP-4.4

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Complete review of data on nuclear power plant operating procedures	-	-	07/01/84
Submit summary letter report	-	-	08/15/84
Develop discussion items for site visits and submit to NRC	-	-	01/31/84
Incorporate NRC comments and submit final letter report	-	-	02/15/85
Complete site visits	09/84	01/85	02/01/85
Complete preliminary assessment of interface problems and submit summary letter report	-	-	01/15/85
Complete analysis of procedures in operating plants	09/84	07/85	-
Receive comments from NRC on Peer Review Group	-	-	02/28/84
Select and contact Peer Review Group	-	-	03/30/84
Convene first Peer Review Group	07/84	-	07/19/84
Convene second Peer Review Group	10/84	01/85	12/04/84
Submit any recommendations for urgent NRC action	09/84	08/85	-
Submit draft report	09/84	08/85	-
Receive NRC and peer review group comments	01/85	09/85	-
Submit final report	02/85	10/85	-
Publish final report	-	11/85	-
Issue close-out memorandum	-	12/85	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-4.5	Safety/ High	Active-L1	NRR/DHFS/PSRB	TBP	TBP

Title ----- Applications of Artificial Intelligence

Work Authorization --- Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)

Contract Title ----- To Be Determined

Contractor Name/  
FIN No. ----- To Be Determined

Work Scope ----- To Be Provided Later

Affected Documents --- To Be Provided Later

Status ----- To Be Provided Later

Problem/Resolution --- To Be Provided Later

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

As of Fourth Quarter FY-85

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-5.1	Safety/ High	Active-L1	NRR/DHFS/HFEB	TBP	TBP
Title -----		Local Control Stations			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			
Affected Documents ---		To Be Provided Later			
Status -----		To Be Provided Later			
Problem/Resolution ---		To Be Provided Later			

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-5.2	Safety/ High	Active-L1	NRR/DHFS/HFEB	D. Jones	TBP
Title -----		Annunciators			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		1. Human Factors in Annunciator/Alarm Systems 2. Computerized Man-Machine Communication			
Contractor Name/ FIN No. -----		1. Sandia National Laboratories/FIN No. A1394 2. OECD Halden Project/FIN No. B7488			
Work Scope -----		1. Recommend Annunciator/Alarm prioritization schemes. Experimentally evaluate impact of alarm prioritization on operator performance. 2. Conduct experimental comparison of three computer-based alarm systems.			
Status -----		1. Experimental evaluation of alarm prioritization is awaiting availability of AND simulator.			
Problem/Resolution ---		None			
Technical Resolution -					

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	



# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-5.3	Safety/ High	Active-L1	NRR/DHFS/HFEB	TBP	TBP
Title -----		Evaluate Operational Aid Systems			
Work Authorization ---		Memorandum for H. Thompson from H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)			
Contract Title -----		To Be Provided Later			
Contractor Name/ FIN No. -----		Idaho National Engineering Laboratory/A-6308 Brookhaven National Laboratory/A-3254 (Completed)			
Work Scope -----		Identification of display design criteria and guidelines for the display of computer generated data to verify the technical accuracy of NUREG-0700 and NUREG-0835 for the control and display elements in the control rooms.			
Affected Documents ---		NUREG-0700 and NUREG-0835			
Status -----		Research began in FY81 with reports being issued annually. Human Factors Subcommittee 7.0, Power Committee, IEEE, also is engaged in development of a human factors design standard. Decision to prepare a Rule, Guideline, or only technical reports has not been affirmed.			
Problem/Resolution ---		Contract terminated at end of FY-85			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Begin criteria development research	09/80	-	12/80
First report, NUREG/CR-1994, April 1981	04/81	-	04/81
Second report, NUREG/CR-2147, September 1981	09/81	-	08/81
Third report, NUREG/CR-2828, August 1982	06/82	-	08/82
Fourth report, NUREG/CR-2776, September 1982	09/82	-	09/82

As of Fourth Quarter FY-85

## Generic Issue #HF-01 Subtask HFPP-5.3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Fifth report, NUREG/CR-2916, September 1982	09/82	-	09/82
Sixth report, NUREG/CR-2942, October 1982	10/82	-	10/82
Seventh report, NUREG/CR-3103, January 1983	09/82	-	01/83
Eighth report, NUREG/CR-3003, April 1983	09/83	-	04/83
Ninth report, NUREG/CR-3557, December 1983	-	12/83	12/83
Tenth report, NUREG/CR-3461, January 1984	-	-	01/84
Eleventh report, NUREG/CR-3631, February 1984	-	-	02/84
Issue report on control room human engineering criteria	01/84	11/84	12/84
Issue transfer memo to NRR/DHFS	-	06/85	07/03/85
DHFS memorandum provided milestone necessary to complete issue	-	11/85	08/08/85
Work scope for issue I.D.4 will be integrated into HF-01 issue HFPP-5.3	-	11/85	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-5.4	Safety/ High	Active-L1	NRR/DHFS/HFEB	TBP	TBP

Title ----- Computers and Computers Displays

Work Authorization --- Memorandum for H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)

Contract Title ----- Display Design and Evaluation

Contractor Name/  
FIN No. ----- Idaho National Engineering Laboratory/A-6308  
A-6108 (Completed FY82)

Work Scope ----- (1) Development of display design criteria for disturbance analysis system were started in FY81 and will be completed in FY84.

(2) Study adequacy of disturbance analysis methods was not started because of funding cuts.

Affected Documents --- NUREG/CR-2118 NUREG/CR-1994  
NUREG/CR-2147 NUREG/CR-2776  
NUREG/CR-2711 NUREG/CR-2828  
NUREG/CR-3103 NUREG/CR-2916  
NUREG/CR-2942

Status ----- Improved display and diagnostics were installed in LOFT June 1982 and documents listed above have been produced to date. Additional research stopped because of lack of funds

Problem/Resolution --- Contract terminates end of FY-85

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
A-6308 Work Scope (2)	-	-	-
Development of Display Design Criteria Started	FY81	-	FY81
System Design Completed	FY84	09/84	09/84
Issue transfer memo to NRR/DHFS	-	06/85	07/03/85
DHFS memorandum provide Milestone necessary to complete issue	-	11/85	08/08/85
Work scope for issue I.D.5 (5) will be integrated into HF-01 issue HFPP-5.4	-	11/85	-

As of Fourth Quarter FY-85

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-6.1	Safety/ High	Active-L1	NRR/DHFS/LQB	P.W. McLaughlin	55587
Title -----		Development of Regulatory Position on Management and Organization			
Work Authorization ---		Memorandum for H. Thompson from H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)			
Contract Title -----		Human Factors Safety Technology Program, Project M-1			
Contractor Name/ FIN No. -----		Battelle PNL/FIN No. B2360 (M1)			
Work Scope -----		This issue will be resolved by accomplishing the following objectives: (1) complete evaluation of existing management and organization assessment activities; such as INPO assistance visits, NRC Performance Assessment Team (PAT) Inspections and Systematic Assessment of Licensee Performance Program (SALP); (2) develop technical basis for an NRC regulatory position on management and organization at operating nuclear power plants; (3) make decision on need for a new regulatory position on management and organization; and (4) develop new regulatory position, if required.			
Affected Documents ---		NUREG-0800, 10 CFR, NUREG-0731			
Status -----		The contractor developed report on evaluation of INPO assistance visits to utility corporate and plant facilities has been completed. This information is currently being evaluated with information on PAT, SALP and other independent evaluators of management and organization at nuclear power plants. A staff recommendation on what the NRC positions should be concerning management and organization at operating nuclear power plants is scheduled for July 1985.			
Problem/Resolution ---		Close-out issue from Human Factors Program plan, resolution complete due to NUMARC self-initiatives and Commission decision not to issue new requirements for two years.			

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Contractor Evaluation of INPO Review Criteria in Management and Organization.	09/83	02/84	02/84

Generic Issue #HF-01, Subtask HFPP-6.1

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Establish Technical Basis for a Regulatory Position, Make Decision.	09/83	07/84	07/84
Prepare Staff Paper - Recommending the NRC Position on M&O at NPPs.	09/84	*	-
Develop Regulatory Package, If Required.	09/85	*	-
Issue close-out memorandum to EDO.	*	-	-

\*Close-out issue based on issuance of commission policy statement.

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-6.2	Safety/ High	Active-L1	NRR/DHFS/LQB	TBP	TBP
Title -----		Evaluation Criteria for SALP Reviews			
Work Authorization ---		Memorandum to H. Thompson from H. Denton dated October 10, 1984, Human Factors Program Plan (HFPP)			
Contract Title -----		To Be Determined			
Contractor Name/ FIN No. -----		To Be Determined			
Work Scope -----		To Be Provided Later			
Affected Documents ---		To Be Provided Later			
Status -----		To Be Provided Later			
Problem/Resolution ---		To Be Provided Later			

Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Schedule and milestone dates will be developed based on approval of NUREG-0985, Revision 2	09/85	11/85	-

# GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Div/Br</u>	<u>Task Manager</u>	<u>Tac No</u>
HF-01 Subtask HFPP-6.3	Safety/ High	Active-L1	NRR/DHFS/LQB	P.W. McLaughlin	40450
Title ----- Revise Standard Review Plan Section 13.1					
Work Authorization --- Memorandum to H. Thompson from H. Denton dated October 10, 1984, "Human Factors Program Plan" (HFPP)					
Contract Title ----- Human Factors Safety Technology Program, Project M-1					
Contractor Name/ FIN No. ----- Battelle PNL/FIN No. B2360 (M1)					
Work Scope ----- This issue will be resolved by accomplishing the following objectives: (1) develop guidelines which describe required minimums for acceptable management and organization at nuclear power plants; (2) prepare workbook to accompany guidelines; (3) publish the guidelines and workbook for use by NRR reviewers of operating license applications; (4) train technical reviewers to effectively use workbook and improve interview skills; and (5) revise and issue SRP revision.					
Affected Documents --- NUREG-0800, NUREG-0731, SRP Section 13.1					
Status ----- A set of guidelines and an accompanying workbook have been developed and have completed interoffice and Division concurrence. Final versions of the guidelines and workbook were published in June 1984. The guidelines and workbook will be incorporated into a revision to SRP Sections 13.1. Action on SRP is delayed pending NUMARC initiatives in accord with Commission guidance.					
Problem/Resolution --- A decision to revise SRP is pending due to NUMARC initiatives which may eliminate the need for revision					

## Technical Resolution -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop Guidelines for OLs.	07/83	11/83	11/83
Develop Workbook for OLs.	09/83	11/83	11/83



Generic Issue #HF-01, Subtask HFPP-6.3

- 2 -

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Revise and issue a revision to SRP Sections 13.1</u>			
Complete SRP and NUREGs draft changes	-	01/85	02/85
Complete V/I Analysis	-	06/85	-
Complete preparation of CRGR package	-	06/85	-
Complete NRR review	-	08/85	-
Resolve NRR comments and transmit for NRR Director's review	-	09/85	-
Complete NRR Director's review	-	11/85	-
Complete CRGR review	-	01/86	-
Issue draft SRP for public comment	-	02/86	-
Public comment period ends	-	03/86	-
Resolve/incorporate public comments	-	05/86	-
Complete NRR review	-	07/86	-
Complete NRR Director review	-	08/86*	-
Complete CRGR review	-	09/86	-
Issue revised SRP sections	-	11/86	-

\*Memo from H. Denton to CRGR will request SRP, Type I changes without formal CRGR process.

As of Fourth Quarter FY-85

MSPP I-1:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 1

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L2	NRR/DHFS/LQB	B.L. Grenier N.B. Le J.L. Koontz	56465

Subtask: MSPP:I.1

Title: Survey of Current Maintenance Practices

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: Survey of the Status of Maintenance in the U.S. Nuclear Power Industry

Contractor Name/FIN: Pacific Northwest Laboratory (PNL)/FIN B2984

Work Scope: This project will include a review and analysis of inspection reports for operating reactors and identification and review of additional information needs and sources (e.g., AEOD analyses, INPO evaluations, PAT inspection reports), development of a classification scheme for identified problems, in order to identify the characteristics of current maintenance programs and practices in the U.S. nuclear power industry. The development, implementation, and the effectiveness of the preventive maintenance program at Salem will be evaluated as an example of a recent licensee response to a requirement for maintenance.

A maintenance review protocol will be developed for direct assessment of licensee maintenance performance using, e.g., a workbook, checklist, or other evaluation tool for NRC use. Input to development of this protocol will be the experience gained from surveys of current maintenance practices. The use of the protocol will be to determine licensee maintenance performance effectiveness and response to maintenance program improvements.

The result of this project, then, will be to assimilate data for assessing the present status of maintenance in the nuclear industry and to develop a method to describe the performance of the maintenance programs at nuclear power plants. Several sites (e.g., one in each Region) will be selected for

evaluation by a team to determine the maintenance program effectiveness. The reviews will (1) provide baseline data as reference for the assessment of future developments due to implementation of new or revised maintenance practices, standards, etc., and (2) identify areas where improvements in maintenance programs are most needed to enhance safety of operation.

Affected Documents: Report to the EDO, April 1986

Status: Schedule for Task 1, "Survey of Maintenance from Available Sources," has slipped because of acceleration of other tasks and the lack of maintenance program descriptions (characteristics) from identified/available sources such as inspection reports. The questionnaire to be administered to the Regions is out for comment and will have to be revised. The maintenance survey protocol has been completed. Site survey visits to Kewaunee, Millstone and Davis-Besse have been completed.

Problem/Resolution: An additional site survey to Davis-Besse has been added further delaying Task 1. The Turkey Pt. site survey is tentative as the licensee has yet to agree with the survey. Also, the date for the Brunswick site survey is tentative because of scheduling problems with the licensee.

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop Statement of Work	2/28/85	-	2/28/85
Issue Request for Proposal	3/1/85	-	3/1/85
Select Contractor	5/1/85	-	4/20/85
Initiation of Contract	5/15/85	-	5/15/85
Collect and categorize data and build maintenance data base structure	7/5/85	-	7/23/85
Prepare and submit questionnaire to be administered to Regions			
a) draft	8/2/85	-	7/3/85
b) final	9/6/85	11/1/85	
Compile questionnaire results	11/8/85	11/17/85	

Analyze data for each plant and submit data file (Background and Plant Operations and Performance Data only.)	7/26/85	11/15/85	
Perform comparative analysis and submit report			
a) draft	8/23/85	1/31/86	
b) final	9/27/85	2/28/86	
Develop and submit maintenance review protocol for use on site surveys			
a) draft	7/19/85		7/19/85
b) final	8/7/85		8/23/85
Conduct on-site maintenance surveys:			
1 - Kewaunee (pilot)	8/2/85	-	8/2/85
2 - Millstone	9/20/85	-	8/30/85
3 - Davis-Besse (additional)	10/11/85	-	9/20/85
4 - Rancho Seco	11/1/85	10/4/85	
5 - Turkey Pt.-4	11/22/85	Not scheduled	
6 - ANO-2	12/13/85	11/8/85	
7 - Brunswick	1/7/86	1/17/86	
Gather, review data and assess lesson learned on Salem Prevention Maintenance Program	7/6/85	-	8/20/85
Conduct Salem site visits	9/6/85	10/18/85	
Prepare draft report and present briefing on Salem	9/27/85	11/5/85	
Incorporate NRC comments and submit final Salem PM report	11/8/85	1/17/86	
Prepare Project Report			
a) draft	12/27/85	3/18/86	
b) final	2/21/86	4/30/86	
Incorporate experience from site survey and update maintenance review protocol			
a) draft	12/30/85	3/11/86	
b) final	1/31/86	4/14/86	
Incorporate results into EDO report	4/1/86		

MSPP I-2:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 2

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L2	NRR/DHFS/LQB	P. McLaughlin	56467

Subtask: MSPP:I.2

Title: Maintenance Performance Indicators

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title:

- Statistical Analysis of Maintenance Performance Indicators (B2980)
- Development of Maintenance Performance Indicators (B2983)

Contractor Name/FIN: Pacific Northwest Laboratory (PNL)/FIN B2980  
Pacific Northwest Laboratory (PNL)/FIN B2983

Work Scope: Preliminary investigations of plant performance safety indicators have shown that multiple variables may be selected which in combination, indicate the effectiveness of a nuclear utility's maintenance practices. The development of maintenance safety indicators will build upon preliminary analyses of variables to derive a set of indicators which may be used to describe industry maintenance performance, compare plant maintenance effectiveness, and assess maintenance trends and patterns. This task will provide further baseline data as reference for industry progress in maintenance program improvement. Alternative data sources and methods will be evaluated for applicability to maintenance performance assessment.

Affected Documents: Report to the EDO, April 1986

Status: Work on B2980 completed in January. Work on B2986 has just begun and a kick-off meeting was held on August 27 with the contractor.

Problem/Resolution: Access to NUMARC data is still needed to verify NUMARC indicators.

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Development of SOW (B2980)	11/11/84	-	11/11/84
Issuance of Contract (B2980) and Start of Work	12/10/84	-	12/10/84
Appointment of NRC Task Force	1/9/85	-	1/9/85
NRC Task Force Recommendation and Assessment of Industry Proposed Indicators	1/15/85	-	1/15/85
Complete Task 1 - Evaluation of 12 NUMARC Draft Maintenance Performance Indicators (B2980)	1/15/85	-	1/15/85
Complete Task 2 - Evaluation of Indicators Prepared by the NRC Maintenance Indicators Task Force (B2980)	1/16/85	-	1/16/85
Provide NRC Comments to Industry (NUMARC)	1/21/85	-	1/21/85
Approval of NUMARC Indicators			5/29/85
Issue Request for Proposal and Start Work, B2986	8/12/85		8/12/85
Task 1 - Identification of Data Sources and Collection Plan			
(a) Identify data sources	9/20/85		
(b) Develop potential data elements	10/11/85		
(c) Develop collection plan			
(1) draft	11/1/85		
(2) final	12/1/85		



<u>Milestones (cont'd)</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Task 2 - Develop Maintenance Indicator Data Base			
(a) Collect and compile data for years '80-'84	12/6/85		
(b) Code and normalize data	12/29/85		
(c) Submit computerized data files	1/10/86		
Task 3 - Develop maintenance performance indicators and reliable indicator models			
(a) Analyze relationship between variables	2/14/86		
(b) Analyze data trends	3/28/86		
(c) Develop initial alternative model	6/20/86		
(d) Prepare report			
(1) draft	6/20/86		
(2) final	7/25/86		
Task 4 - Validate Models			
(a) Collect, sort and compile data for 1985	7/11/86		
(b) Analyze data files	8/1/86		
(c) Comparative analysis	8/22/86		
(d) Prepare report	8/22/86		
Task 5 - Prepare Final Report			
(a) draft	9/12/86		
(b) final	10/31/86		



MSPP I-3:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 3

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier	56469

Subtask: MSPP:I.3

Title: Monitor Industry Activities

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: Review and Integration of Information from Programs Related to the Maintenance and Surveillance Program Plan.

Contractor Name/FIN: Support within Project 2, FIN B2984  
Pacific Northwest Laboratory (PNL)

Work Scope: The Maintenance Section personnel will monitor industry progress and experience in developing strategies for improved maintenance. Coordination with INPO will be necessary to monitor the effectiveness of the INPO plant evaluations, accreditation of training, and good practices in enhancing maintenance performance in the nuclear industry. Implementation of EPRI guidelines and the results of industry initiatives will be monitored and their impact assessed. In addition, industry activities such as standards development and data reporting will provide input to the NRC development of performance measurement methods, guidelines, and criteria for maintenance and surveillance.

Affected Documents: Report to the EDO, April 1986

Status: The Maintenance Section staff continuously stays abreast of on-going industry activities and are in receipt of literature for information and for comment and attend meetings when scheduled

Problem/Resolution: None

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Attend NUMARC/EDO Coordination Meeting Regarding the MSPP	1/3/85		1/3/85
Attend NUMARC-INPO Coordination Meeting in Atlanta	2/26/85		2/26/85
Attend EPRI Seminar to Review EPRI report on "Maintainability"	3/19-21/85		3/19-21/85
Participate in EPRI Workshop on Maintenance Safety Related Equipment	4/16-17/85		4/16-17/85
Attend ANS Maintenance Panel Meeting, Boston	6/12/85		
Attend VEPCO Presentation on Team Approach to Maintenance	7/16/85		7/16/85
Participate in EPRI Program Review	7/16/85		7/16/85
Meeting with NUMARC on Indicators	7/17/85		7/17/85
Review of IAEA Maintenance Manual (Revision 2)	8/5/85		8/5/85
Attend meeting with NUMARC and selected utilities to discuss Preventive Maintenance Program development and diagnostic tools	10/16/85		

Note: Additional "milestones" to be added as they are identified

Incorporate results in EDO report 4/1/86

MSPP I-4:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 4

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier	40004

Subtask: MSPP:I.4

Title: Participate in Standards Groups

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: None

Contractor Name/FIN: N/A

Work Scope: Maintenance Section personnel participate in development of industry national standards for maintenance by IEEE, ASME, ANS and ANSI groups. Industry standards are perceived as a means of promoting maintenance program improvements without NRC regulation. NRC endorsement of industry standards will be considered during the maintenance program.

Affected Documents: Report to the EDO, April 1986

Status: The Maintenance Section staff is assigned to various standards committees associated with maintenance and surveillance testing and will attend when scheduled.

Problem/Resolution: None

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Participate in IEEE 3.3 Goal Setting Meeting	10/16/84		10/16/84
Attend IEEE 3.2 Standards Committee Meeting to Devise Guidelines for Maintenance "Good Practices"	12/10/84		12/10/84
Attend IEEE 3.2 Standards Committee Meeting to Devise Guidelines for Maintenance "Good Practices"	2/6-7/85		2/6-7/85
Review and Provide Comments on IEEE Standards Committee 3.2 Draft (#338) "Periodic Surveillance Testing of NPG Systems"	4/19/85		4/19/85
Attend IEEE Standards Committee Committee Meeting 3.3 to Devise Maintenance "Good Practices"	4/30-5/1/85		4/20-5/1/85
Serve as Panel Member and Present Paper to ANS Annual Meeting on "Maintenance Program and Practices"	6/11/85		6/11/85
Attend IEEE 3.3 Standards Committee Meeting to Devise Guidelines for Maintenance "Good Practices"	8/6-7/85		8/6-7/85
Attend ASI Meeting in Knoxville, TN	9/5/85		9/5/85

Attend ANSI/ASME NQA Sub- committee on Operations meeting (WG on Maintenance, Repairing and Inservice Inspec- tion) to discuss Standard NQA-2	9/11/85	9/11/85
Attend IEEE WG 3.3 Meeting re: "Maintenance Management"	10/22-25/85	
Attend IEEE WG 3.3 Meeting re: "Maintenance Guidelines"	11/4-8/85	

MSPP I-5:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 5

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier	56471

Subtask: MSPP:I.5

Title: Maintenance and Surveillance Program Integration (NRC Related Programs)

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: Review and Integration of Information from Programs Related to the Maintenance and Surveillance Program Plan.

Contractor Name/FIN: Pacific Northwest Laboratory (PNL)/FIN B2984

Work Scope: A number of diverse, multidisciplinary programs related to maintenance are expected to produce technical data and information that will support the goals and objectives of the Maintenance and Surveillance Program (MSPP). Some of these programs are listed in Table 3.1 of the MSPP and are described in Section 3 of the MSPP. While the scope of these programs encompasses objectives other than maintenance, it is important that all maintenance-related data and information available from these programs be extracted, assessed and integrated into MSPP activities and ensuing regulatory strategy to form a comprehensive technical basis for NRC decision-making regarding U.S. nuclear power plant maintenance policies.

With respect to the contractual support, task assignments will be placed on an "as required" basis. Generally, for each task placed under the contract, the contractor will review and assess interim and final reports, plans, products, or other information (e.g., attending industry meetings) from the standpoints of their relationship (including possible duplication of effort) and possible use in MSPP activities and proposed NRC actions.

Affected Documents: Report to the EDO, April 1986



Status: Reports are being read, evaluated and summarized in a manner that will allow integration in current project activities or integrated in the report to the EDO.

Problem/Resolution: The QA Program Plan has yet to be approved for implementation, the staff will continue to interface on a periodic basis with the QA staff to exchange information of mutual interest/concerns. Not much is happening with the EQ program and no improvement is expected in view of the NRR reorganization.

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Quality Assurance Program Plan (QAPP)</u>			
The Commission paper forwarding the QAPP was signed 2/25/85 and no action has been taken to date.			
Follow-up status review.	9/20/85		9/20/85
<u>Safety Implications of Control Systems</u>			
<u>(USI A-47)</u>			
Review of NUREG/CR-4326, "Effects of Control System Failures on Transients and Accidents on Westinghouse 3-Loop PWRs (Aug. 85).	1/10/86		
Review of NUREG/CR-4262, "Effects of Control System Failures on Transients and Accidents on BWRs" (Sept. 85)	1/24/86		
Review of NUREG/CR-4047, "Effects of Control System Failures on Transients and Accidents on B&W PWRs" (Sept. 85)	2/7/86		
Review of NUREG/CR-(Unassigned No.) "Effects of Control System Failures on Transients and Accidents on CE PWRs"	2/21/86		



<u>Milestones (cont'd)</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Technical Specifications Research</u>			
Review of report - "Surveillance Test Intervals"	11/30/85		
Review of report - "Application Guide for Allowed Outage Times"	1/31/86		
<u>Technical Specifications Improvement Project (TSIP)</u>			
Review of TSIP final report	11/15/85		
<u>Nuclear Plant Aging Research</u>			
Review of NUREG/CR-4156: Operating Experience and Aging-Seismic Assessment of Electric Motors	7/11/85		7/11/85
Review of NUREG-CR-4234: Aging and Service Wear of Electric Motor-Operated Valves Used in Engineered Safety-Feature Systems of Nuclear Power Plants - Part 1.	7/11/85		7/11/85
Review of Draft Special Report: Evaluation of the Motor-Operated Valves Analysis and Test System (MOVATS) to detect degradation, incorrect adjustment and other abnormalities in Motor-Operated Valves.	8/21/85		8/21/85
Review of NUREG/CR-3543: Survey of Operating Experience from LERs to Identify Aging Trend.	11/18/85		
Review of NUREG/CR-4144: Importance Ranking based on Aging Considerations of Components Included in Probabilistic Risk Assessments.	11/25/85		
Review of NUREG/CR-4279: Draft Report on Aging/Service Wear of Hydraulic and Mechanical Snubbers	12/13/85		

<u>Milestones (cont'd)</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Review of NUREG/CR-4257: Inspection/Surveillance and Monitoring of Electrical Equipment inside Containment of Nuclear Power Plants - with application to Electrical Cable.	12/20/85		-

Effectiveness of Industry ALARA Programs

Review of RES report on occupational dose reduction and ALARA (NUREG/CR-4254)	6/30/85		6/30/85
---	---------	--	---------

Comment on Commission paper on cooperation with INPO to evaluate industry success in achieving ALARA - integrated radiation protection programs.	11/8/85		
--	---------	--	--

Review of RES report on evaluation of occupational dose reduction activities (RES)	12/13/85		
--	----------	--	--

Equipment Qualification - R.G. 1.89

Currently, a multi-office (NRR/IE/Regions) E.Q. inspection team is conducting a series of 10 inspections to review the licensee's implementation of the E.Q. requirements of 10 CFR 50.49 for establishing and maintaining the qualification of equipment. The results of these inspections is to ensure equipment reliability to withstand the adverse environmental conditions during a design basis event. The Maintenance and Surveillance Section (MSS) is monitoring these activities.

The following inspection reports on the plants listed below will be reviewed for findings pertinent to the Maintenance and Surveillance Program:

<u>Milestones (cont'd)</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
1. Calvert Cliffs	3/15/85		3/15/85
2. Zion	4/15/85		4/12/85
3. Crystal River	5/15/85		5/17/85
4. Fort Calhoun	6/15/85		6/14/85
5. Rancho Seco	7/15/85		7/12/85
6. Point Beach	8/15/85		8/16/85
7. Brunswick	10/15/85		
8. Nine Mile Point	11/15/85		
9. San Onofre	12/15/85		
10. Sequoyah or Browns Ferry	1/15/85		

Reliability Research

Review of NUREG/CR-2641 "The In-Plant Reliability Data Base for Nuclear Power Plant Components: Data Collection and Methodology Report," July 1982 10/25/85

Review of NUREG/CR-2886 "The In-Plant Reliability Data Base for Nuclear Power Plant Components: Interim Report - the Valve Component," December 1983. 11/25/85

Review of NUREG/CR-3154 "The In-Plant Reliability Data Base for Nuclear Power Plant Components: Interim Report - the Valve Component," December 1983. 11/29/85

Review of ORNL/TM-9066 "In-Plant Reliability Data Base for Nuclear Plant Components: A Feasible Study on Human Error Information," March 1984 12/13/85

Review of NUREG/CR-3831 "The In-Plant Reliability Data Base for Nuclear Plant Components: Interim Report - Diesel Generators, Batteries, Chargers and Inverters," January 1985 12/27/85

<u>Milestones (cont'd)</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Review of NUREG/CR-3541 "Measures of the Risk Impact of Testing and Maintenance Activities"	12/27/85		
Review of RES report "Appli- cability of Reliability Program to Help Resolve Generic Issues"	12/27/85		
Review of RES report "Case Studies on Attributes of Successful Reliability Programs"	1/15/86		
<u>Training and Qualifications of Personnel</u>			
Review of INPO Accreditation Observation Reports	as available		
Review of Post-Accreditation Training Review Reports	as available		
<u>Integration of NDE Reliability and Fracture Mechanics Program</u>			
Review of semi-annual program progress report	12/13/85		
Review of annual program progress report	2/7/86		
<u>Interfacing Systems LOCA at BWRs - Generic Issue No. 105</u>			
Comments on Task Action Plan	9/12/85		9/12/85
Comments of SOW for contract in support of GI 105	9/27/85		
• Review of Interim Progress Report	1/17/86		

<u>Milestones (cont'd)</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
<u>Other NRC Programs (Miscellaneous)</u>			
Review results of Maine Yankee PAT Report	11/15/85		
Review of Turkey Pt. 1 & 2 IE HQ. inspection of AFWS	10/29/85		
Review of NUREG/CR-3715 Report on maintainability	10/15/85		9/17/85

MSPP I-6:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 6

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier J.P. Jankovich	56468

Subtask: MSPP:I.6

Title: Analysis of Japanese/U.S. NPP Maintenance Programs

Work Authorization: NRC/MITI International Agreement

Contract Title: Analysis of Japanese-U.S. Nuclear Power Plant Maintenance Programs

Contractor Name/FIN: Pacific Northwest Laboratory (PNL)/FIN B2550

Work Scope: The objective of of this project is to assess the degree to which differing Japanese and U.S. approaches to the regulation and practice of nuclear power plant (NPP) maintenance may explain the difference in reactor trips/scrams and safety equipment availability between U.S. and Japanese plants. This project consists of three tasks: (1) comparing and contrasting Japanese and U.S. NPP preventive maintenance programs, (2) assessing Japanese maintenance organizational and management practices, and (3) identification of the difference in Japanese - U.S. NPP operating experience and factors which may account for the differences.

Affected Documents: Report to the EDO, April 1986

Status: This project is complete. The results will be integrated into the MSPP, Phase I report to the EDO.

Note: This project was started during development of the MSPP because of the opportunity to exchange information on the subject of maintenance with Japanese at the time.

Problem/Resolution: None

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop Statement of Work Obtain HFRG Approval and Forward to Contractor to Start Work	2/1/84		2/1/84
Complete Task 1 - Assess Differences in Operating Experience	4/15/84		5/1/84
Complete Task 2 - Assess Organization and Management	4/15/85		5/31/85
Complete Task 3 - Compare/Con- trast PM programs	4/15/85		4/15/85
Appendix B	4/30/85		5/31/85
Prepare, report of U.S. operating experience (additional task)	4/15/85		4/30/85
Printing NUREG/CR 3883	5/31/85		7/6/85
NUREG/CR 3883P	7/31/85		8/15/85
Review report and incorporate results, as appropriate, in the EDO report	4/1/86		



MSPP I-7:BLG

## MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

### Phase I/Task 7

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L2	NRR/DHFS/LQB	B.L. Grenier J.L. Koontz	57267

Subtask: MSPP:I.7

Title: Maintenance Personnel Qualifications

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: Determination of Job-Relevant Maintenance Personnel Qualifications.

Contractor Name/FIN: To be determined

Work Scope: The purpose of this project is to identify from job and task analysis data, the knowledges, skills, and abilities required for the duties of electrical, mechanical, instrumentation and control, and supervisory maintenance personnel. The pertinent education and vocational training backgrounds as well as any aptitudes which provide the appropriate knowledge, skills, and abilities will be determined. The goal is to determine the appropriate maintenance personnel qualifications for use in developing standards and by which to assess current industry practice in ensuring the qualifications of maintenance personnel.

The results will provide information about the present level of maintenance personnel skills and the necessary personnel qualifications, i.e., knowledges, skills, and abilities, for correct performance of maintenance tasks. The results of this project will also be used to determine format, content, and use of job performance aids as means of improving maintenance personnel performance.

• Affected Documents: Report to the EDO, April 1986

Status: The draft Statement of Work has been prepared; however no contractual support will be sought in Phase I. Staff will continue to monitor the INPO Accreditation Program and industry standards group activities in this area to assess their initiatives.

Problem/Resolution: Given limited resources in view of ongoing industry efforts, no specific staff action is planned in Phase I.

NOTE: In the earlier version of the MSPP, this task was to have been supported (funded) by RES but was dropped by RES as a part of their discontinuance of support to the human factors areas.

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop Draft Statement of Work	6/30/85	-	6/10/85
Incorporate Assessment of Industry Initiatives in EDO Report	4/1/86		

MSPP I-8:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 8

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier D. Persinko	57268

Subtask: MSPP:I.8

Title: Human Factors in In-Service Inspection

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: Human Factors Aspects of Ultrasonic Testing/Inservice Inspection Tasks

Contractor Name/FIN: Pacific Northwest Laboratory (PNL)/FIN B2983

Work Scope: NRC regulations (10 CFR 50.55a(g)) require that nuclear power plants have an effective ISI program in place. With respect to maintenance requirements, ISI programs may not provide sufficient data to support an effective preventive maintenance program which requires considerable data on equipment history and operation. Therefore, in order to obtain sufficient objective information to determine the practicality of trade-offs between ISI requirements and predictive/preventive maintenance requirements, a feasibility study investigating ultrasonic testing (UT) techniques and associated human error potential will be performed. This project will be conducted in conjunction with the RES-sponsored program titled "Integration of NDE Reliability and Fracture Mechanics." Identification of probable sources of human factors problems contributing to ineffective UT/ISI processes and the need for and scope of subsequent studies will be determined during Phase I.

Affected Documents: Report to the EDO, April 1986

Status: The MRR tasks were completed by the ISI inspectors in June and July; a human factors analysis of their equipment was performed; and, the inspectors were interviewed using the "Critical Incident Technique"(CIT). Analysis of the data collected is being performed. Preliminary results have shown that training and feedback received by the inspectors can have a significant influence upon the accuracy of their inspections. Therefore, a follow-on effort to verify this finding will be performed in the first half of FY 86. These tasks have been added below.

Problem/Resolution: None

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Develop Statement of Work and Send Request for Proposal to Contractor	5/15/85	-	5/13/85
Authorization and Start of Work by Contractor	5/31/85		5/28/85
Task 1 - Collection of Human Factors Data from Mini-Round-Robin (MRR) Tasks	7/31/85		7/19/85
Task 2 - Analysis of MRR Data	10/25/85		
Task 3 - Site Visit to the EPRI NDE Training Center	11/25/85		
Task 4 - Preparation for MRR Workshop	11/22/85		
Task 5 - Conduct MRR Workshop	12/20/85		
Task 6 - Analyze Workshop Data	1/10/86		
Contract Modification	9/27/85		
Task 7 - Prepare and Submit Final Report	2/14/86		
Incorporate Result of Work in EDO Report	4/1/86		

MSPP I-10:BLG

MAINTENANCE AND SURVEILLANCE PROGRAM PLAN

Phase I/Task 10

<u>Issue Number</u>	<u>Issue Type</u>	<u>Action Level</u>	<u>Office/Dir./Br.</u>	<u>Task Manager</u>	<u>TAC Number</u>
HF-02	Safety/ High	L1	NRR/DHFS/LQB	B.L. Grenier J.P. Jankovich	57270

Subtask: MSPP:I.10

Title: Development of an NRC Model Maintenance Program

Work Authorization: MSPP/Phase I approved for implementation by the EDO on January 11, 1985.

Contract Title: None

Contractor Name/FIN: N/A

Work Scope: The maintenance model to be developed will serve as a conceptual framework to allow a common interpretation for the role of maintenance between the NRC, the industry, and the standardization groups. The modelling approach will be similar to the instructional systems development used in training by being general for overall acceptance and by providing a common basis to make plant-specific programs comparable. The model will be used to develop the site survey protocol. The modelling approach will include (1) the MSPP definition of maintenance, i.e., preventive, corrective, surveillance, organization, support, etc.; (2) the alignment of safety goals with the goals of the maintenance program; (3) means to compare plant-specific programs with each other for the industry assessment in Phase I of the MSPP.

Affected Documents: Report to the EDO, April 1986

Status: The NRC Model Maintenance Program is considered to be an unofficial, "living" document at this time since its development and refinement will take place throughout Phase I. Therefore, work on this project is continuous and no major milestones have been established.

Problem/Resolution: None

Technical Resolutions:

<u>Milestones</u>	<u>Original</u>	<u>Current</u>	<u>Actual</u>
Development of Concept	4/29/85		4/29/85
Development of Draft Model	6/30/85		6/30/85
Prepare Final Draft of Model	10/25/85		
Incorporate Model as Appendix to EDO Report	4/1/85		