

November 28, 2006

MEMORANDUM TO: Farouk Eltawila, Director
Division of Risk Assessment & Special Projects
Office of Nuclear Regulatory Research

FROM: Patrick W. Baranowsky, Deputy Director /RA/
Operating Experience Risk Analysis
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SUBJECT: GENERIC ISSUE MANAGEMENT CONTROL SYSTEM (GIMCS)
REPORT – FOURTH QUARTER FY 2006

The GIMCS Report for the Fourth Quarter of FY 2006 is enclosed for your information. The following is a summary of the significant progress that was made in resolving open generic issues (GIs) during the reporting period.

REACTOR GIs

GI-156.6.1, Pipe Break Effects on Systems and Components: A survey of the layout of those plants affected by the issue was completed by the Office of Nuclear Reactor Regulation (NRR) in September 2006. The review of piping configurations to identify the most vulnerable plants is underway, with an expected completion date in December 2006. No problems have been noted at 12 of the 14 sites review so far.

GI-191, Assessment of Debris Accumulation on PWR Sump Performance: The Office of Nuclear Regulatory Research (RES) completed research on: (1) the thermodynamic simulation of containment sump pool chemical constituents, to predict the chemical reactions/byproducts in the pools; (2) the pressure loss across containment sump screens due to fiber insulation, chemical precipitates, and coating debris; and (3) a literature survey to summarize the knowledge base to date on the potential contribution of material leached from containment coatings to the chemical products formed in the containment sump pool, after a loss-of-coolant accident. NRR conducted a plant audit at San Onofre 3 and completed work on an audit done the prior quarter at Watts Bar. Plant audits are being conducted to verify the adequacy of licensee responses to Generic Letter 2004-02. NRR also made visits to two sump strainer vendor facilities to observe head loss testing; these were at Control Components, Inc. (CCI) in Switzerland and at the Continuum Dynamics, Inc. (CDI) test facility in Ewing, NJ.

GI-193, BWR ECCS Suction Concerns: RES initiated discussions with NRR regarding the commonality of concerns between GI-193 and those being addressed in a proposed Generic

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Letter addressing gas accumulation in ECCS suction piping covering all reactors. RES has decided to work with NRR to issue an appropriate generic communication to affected licensees. Discussions with NRR are continuing on the specifics of the generic communication and the schedule for its issuance.

GI-196, Boral Degradation: The technical assessment of the issue was completed in August 2006 and submitted to the Advisory Committee on Nuclear Waste (ACNW) for review. The staff proposes to close the issue in February 2007 with no new requirements for licensees, and is expected to discuss its findings with the ACNW in December 2006.

GI-198, Hydrogen Combustion in PWR Piping: The screening analysis for this GI has been completed and is undergoing review in RES.

GI-200, Tin Whiskers: The screening analysis for this GI has been completed and is undergoing review in RES.

Two new GIs were identified: GI-201, "Small-Break LOCA and Loss of Offsite Power," and GI-202, "Spent Fuel Pool Leakage Limits." At the end of the reporting period, twelve reactor GSIs remained to be resolved: four GSIs that were transferred from RES to NRR for regulation and guidance development (see Table 1), three GSIs that are undergoing technical assessment in RES (see Table 1), and five GIs that are in various stages of initial screening in RES (see Table 9).

NON-REACTOR GIs

At the end of the reporting period, three non-reactor GSIs remained to be resolved (see Table 14).

I will continue to keep you informed of progress in resolving the remaining unresolved reactor and non-reactor GSIs as well as any major problems that might surface during the course of their resolution.

Enclosure: GIMCS Report, October 2006

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ENCLOSURE

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM (GIMCS) REPORT

OFFICE OF NUCLEAR REGULATORY RESEARCH
OCTOBER 2006

TABLE OF CONTENTS

- (a) Generic Issue Management Control System
 - (1) Description
 - (2) Legend
 - (3) Data Elements
- (b) Table 1 Reactor GSIs Scheduled for Resolution
- (c) Table 1A Plan by Fiscal Year for Resolving Remaining Reactor GSIs
- (d) Table 2 Number of Reactor GSIs Resolved by Fiscal Year, FY-1983 to FY-2006 (4th Quarter)
- (e) Table 3 Reactor GSIs Resolved by Fiscal Year
- (f) Table 4 Net Change by Fiscal Year in Reactor GSIs Scheduled for Resolution, FY-1983 to FY-2006 (4th Quarter)
- (g) Table 4A Net Change in Reactor GSIs Resolved, FY-1983 to FY-2006 (4th Quarter)
- (h) Table 5 Reactor Generic Issues to be Prioritized
- (i) Table 6 Reactor Generic Issues to be Reprioritized
- (j) Table 7 Number of Reactor Generic Issues Prioritized
- (k) Table 8 Number of Reactor Generic Issues Prioritized from FY-1983 to FY-2001
- (l) Table 8A Number of Reactor Generic Issues Screened in Accordance with MD 6.4, from FY-2001 to FY-2006 (4th Quarter)
- (m) Table 9 Reactor Generic Issues Scheduled for Screening in Accordance with MD 6.4
- (n) Table 10 Reactor Generic Issues Screened in Accordance with MD 6.4
- (o) Table 11 Non-Reactor Generic Issues Prioritized
- (p) Table 11A Non-Reactor Generic Issues Screened in Accordance with MD 6.4
- (q) Table 12 Non-Reactor Generic Issues to be Screened in Accordance with MD 6.4
- (r) Table 13 Non-Reactor Generic Issues Resolved by Fiscal Year
- (s) Table 14 Non-Reactor Generic Issues Scheduled for Resolution
- (t) Work Scope & Schedules for Active Generic Issues

GENERIC ISSUE MANAGEMENT CONTROL SYSTEM

DESCRIPTION

The Generic Issue Management Control System (GIMCS) provides information necessary to manage the resolution of generic safety issues (GSIs) as well as non-safety-related generic issues. GSIs have the potential for safety enhancements and the promulgation of new or revised requirements or guidance.

GIMCS is part of an integrated system of reports and procedures that is designed to manage GSIs through the stages of prioritization/screening and resolution (development of new criteria, management review and approval, public comments, and incorporation into the regulations, as appropriate). The priority evaluation of each issue listed as HIGH- or MEDIUM-priority in this report is contained in NUREG-0933, "A Prioritization of Generic Safety Issues."

For reactor issues, the "Procedures for Processing Generic Issues" are outlined in RES Office Instruction TEC-002, dated September 29, 2005. The procedures for processing non-reactor issues are documented in NMSS Policy and Procedures Letter 1-57, Revision 1, "NMSS Generic Issues Program," dated October 1997. In 1999, Management Directive (MD) 6.4, "Generic Issues Program," was initiated for the processing of all new GSIs; MD 6.4 was revised on July 29, 2005.

GIMCS provides the proposed schedules for managing the resolution of: (1) GSIs that have HIGH- or MEDIUM-priority designations, as determined by the procedures of NUREG-0933 and NMSS Policy and Procedures Letter 1-57; and (2) other issues designated as CONTINUE, as determined by the screening procedures of MD 6.4. Reactor GSIs ranked as either LOW or DROP are not allocated resources for resolution and, therefore, are not tracked in GIMCS.

LEGEND

ANPRM	- Advance Notice of Proposed Rulemaking
BNL	- Brookhaven National Laboratory
BTP	- Branch Technical Position
DE	- Division of Engineering
DET	- Division of Engineering Technology
DRPM	- Division of Reactor Program Management
DSSA	- Division of Systems Safety and Analysis
DTR	- Draft Technical Resolution
EPRI	- Electric Power Research Institute
FIN	- Financial Identification Number
FRN	- Federal Register Notice
FTR	- Final Technical Resolution
GL	- Generic letter
GSI	- Generic Safety Issue
H	- HIGH-priority GSI
IEB	- Inspection & Enforcement Bulletin
IN	- Information Notice
INEL	- Idaho Nuclear Engineering Laboratory
M	- MEDIUM-priority GSI
ORNL	- Oak Ridge National Laboratory
PNL	- Pacific Northwest Laboratories
PRA	- Probabilistic Risk Assessment
PRAB	- Probabilistic Risk Analysis Branch
RAI	- Request for Additional Information
RG	- Regulatory Guide
RI	- Regulatory Impact
S	- Subsumed in Another Issue (No.)
SFPO	- Spent Fuel Project Office
SOW	- Statement of Work
SRP	- Standard Review Plan
STS	- Standard Technical Specification
T/A	- Technical Assistance
TAP	- Task Action Plan
TBD	- To be Determined
TI	- Temporary Instruction
TS	- Technical Specification
USI	- Unresolved Safety Issue

DATA ELEMENTS

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

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

DATA ELEMENTS (cont.)

- | | | |
|-----|---------------------------|--|
| 14. | <u>FIN</u> | Financial identification number assigned to contract (if any) for technical assistance |
| 15. | <u>Contractor</u> | Contractor name |
| 16. | <u>Contract Title</u> | Contract Title (if contract issue) |
| 17. | <u>Work Scope</u> | Describes briefly the work necessary to technically resolve and complete the generic issue |
| 18. | <u>Status</u> | Describes current status of work |
| 19. | <u>Affected Documents</u> | Identifies documents into which the technical resolution will be incorporated |
| 20. | <u>Problem/Resolution</u> | Identifies problem areas and describes what actions are necessary to resolve them |
| 21. | <u>Milestones</u> | Selected significant milestones: |
| | <u>Original</u> | Scheduled dates reflected in the original Task Action Plan, plus additional milestone dates added during resolution of the GSI |
| | <u>Current</u> | Expected date of completion, or changes in the original scheduled dates |
| | <u>Actual</u> | The date the milestone was completed |

TABLE 1
REACTOR GSIs SCHEDULED FOR RESOLUTION

ISSUE NUMBER	TITLE	LEAD/OFFICE/ DIVISION/ BRANCH	PRIORITY	DATE APPROVED FOR RESOLUTION	RESOLUTION DATE AT END OF FY-2005	CURRENT RESOLUTION DATE
156.6.1	Pipe Break Effects on Systems and Components	RES/DRASP/OERA	HIGH	07/16/1999	12/2007	12/2007
163	Multiple Steam Generator Tube Leakage	NRR/DCI/CSG	HIGH	01/17/1997	TBD	TBD
186	Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants	NRR/DSS/SBP	CONTINUE**	06/2003	03/2006	02/2007
189	Susceptibility of Ice Condenser and MARK III Containments to Early Failure from Hydrogen Combustion During A Severe Accident	NRR/DSS/SBP	CONTINUE**	02/13/2002	06/2010	06/2010
191	Assessment of Debris Accumulation on PWR Sump Performance	NRR/DSS/SSI	HIGH*	09/--/1996	12/2007	06/2008
193	BWR ECCS Suction Concerns	RES/DRASP/OERA	CONTINUE**	10/16/2003	03/2007	TBD
196	Boral Degradation	RES/DRASP/OERA	CONTINUE**	10/16/2003	06/2006	02/2007

1.
**

Previously listed as Nearly-Resolved but changed to HIGH in SECY-98-166
Defined in Management Directive 6.4

Total: 7

TABLE 1A
PLAN BY FISCAL YEAR FOR RESOLVING REMAINING REACTOR GSIs

PRIORITY	FY-2007	FY-2008	FY-2009	FY-2010	TBD	TOTAL
HIGH	-	156.6.1 191*	-	-	163	3
MEDIUM	-	-	-	-	-	0
CONTINUE**	186 196	-	-	189	193	4
TOTAL:	2	2	0	1	2	7

1. Previously listed as Nearly-Resolved but changed to HIGH in SECY-98-166
 ** Defined in Management Directive 6.4

TABLE 2
NUMBER OF REACTOR GSIs RESOLVED BY FISCAL YEAR
FY-1983 TO FY-2006 (4TH QUARTER)

FISCAL YEAR	USI	HIGH	MEDIUM	NR	CONTINUE	TOTAL
FY-1983	2	0	0	4	-	6
FY-1984	2	1	3	9	-	15
FY-1985	0	6	10	7	-	23
FY-1986	1	3	2	3	-	9
FY-1987	2	3	4	1	-	10
FY-1988	5	6	2	3	-	16
FY-1989	4	9	3	2	-	18
FY-1990	0	2	2	3	-	7
FY-1991	0	2	1	1	-	4
FY-1992	0	4	2	1	-	7
FY-1993	0	7	3	0	-	10
FY-1994	0	1	2	2	-	5
FY-1995	0	0	0	1	-	1
FY-1996	0	1	1	1	-	3
FY-1997	0	0	1	2	-	3
FY-1998	0	0	0	0	-	0
FY-1999	0	2	2	0	-	4
FY-2000	0	3	2	0	-	5
FY-2001	0	1	0	0	0	1
FY-2002	0	2	0	0	0	2
FY-2003	0	1	0	0	0	1
FY-2004	0	0	0	0	0	0

TABLE 2
NUMBER OF REACTOR GSIs RESOLVED BY FISCAL YEAR
FY-1983 TO FY-2006 (4TH QUARTER)

FISCAL YEAR	USI	HIGH	MEDIUM	NR	CONTINUE	TOTAL
FY-2005	0	1	0	0	0	1
FY-2006	0	0	0	0	2	2
TOTAL	16	55	40	40	2	153

TABLE 3
REACTOR GSIs RESOLVED BY FISCAL YEAR

ISSUE NUMBER	TITLE	PRIORITY	RESOLUTION PRODUCT	DATE APPROVED FOR RESOLUTION	DATE RESOLVED
<i>For reactor generic issues resolved from FY-1983 to FY-2005, see 4th Quarter FY-2005 GIMCS Report dated October 31, 2005 (ML053050406, ML053050399)</i>					
FY-2006					
80	Pipe Break Effects on Control Rod Drive Hydraulic Lines in the Drywells of BWR MARK I and II Containments	CONTINUE	Staff Report (No Req.)	02/14/2003	11/17/2005
188	Steam Generator Tube Leaks/Ruptures Concurrent with Containment Bypass	CONTINUE	Staff Report (No Req.)	05/21/2001	12/16/2005

TABLE 4

NET CHANGE BY FISCAL YEAR IN REACTOR GSIs SCHEDULED FOR RESOLUTION

For net change by fiscal year in reactor GSIs scheduled for resolution from FY-1983 to FY-2005, see 4th Quarter FY-2005 GIMCS Report dated October 31, 2005 (ML053050406, ML053050399)

FY-2006

PRIORITY CATEGORY	START	ADDITIONS	RESOLVED	INTEGRATED	END
HIGH	3	0	0	0	3
MEDIUM	0	0	0	0	0
CONTINUE	6	0	2	0	4
TOTAL	9	0	2	0	7

TABLE 4A
NET CHANGE IN REACTOR GSIs RESOLVED
FY-1983 TO FY-2006 (4TH QUARTER)

PRIORITY CATEGORY	START	ADDITIONS	SUB-TOTAL	RESOLVED	INTEGRATED**	REMAINDER
USI	16	0	16	16	0	0
HIGH	24	44*	68	55	10	3
MEDIUM	31	18	49	40	9	0
NR	20	21*	41*	40	1	0
CONTINUE	0	6	6	2	0	4
TOTAL:	91	89	180	153	20	7

2. Extensive revisions to Human Factors issues resulted in priority changes in FY-85 and FY-86.

** GSIs Integrated

FY-87 (13):

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

FY-88 (6):

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

FY-89 (1):

Issue 131 was integrated into the IPEEE Program.

TABLE 5
REACTOR GENERIC ISSUES TO BE PRIORITIZED

Prioritization of generic issues was terminated in 1999 with the implementation of Management Directive 6.4.

TABLE 6
REACTOR GENERIC ISSUES TO BE REPRIORITIZED

Prioritization of generic issues was terminated in 1999 with the implementation of Management Directive 6.4.

TABLE 7
REACTOR GENERIC ISSUES PRIORITIZED

ISSUE NUMBER	TITLE	IDENTIFICATION DATE	DATE PRIORITIZED	CURRENT PRIORITY
<i>For reactor GIs prioritized from FY-1983 to FY-2001, see 4th Quarter FY-2005 GIMCS Report dated October 31, 2005 (ML053050406, ML053050399)</i>				

TABLE 8
NUMBER OF REACTOR GENERIC ISSUES PRIORITIZED FROM FY-1983 TO FY-2001

ISSUE TYPE	FY-83	FY-84	FY-85	FY-86	FY-87	FY-88	FY-89	FY-90	FY-91	FY-92	FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TOTAL
Issues Identified to be Prioritized	56	19	54	45*	6	3	38	3	29	7	5	1	2	17	0	0	1	0	0	286
Issues Identified to be Reprioritized	19	2	0	1	1	2	0	0	0	0	0	0	0	3	2	0	0	0	0	30
Total:	75	21	54	46	7	5	38	3	29	7	5	1	2	20	2	0	1	0	0	316
<hr/>																				
<u>New Issues (Entered into GIMCS)</u>																				
High	2	1	41	6	4	1	1	0	2	0	0	1	1	0	1	0	1	1	0	63
Medium	2	4	1	1	1	2	0	1	3	2	0	1	0	0	0	0	0	0	0	18
Nearly-Resolved	3	5	6	1	0	1	0	0	1	2	2	0	1	5	0	0	0	0	0	27
Sub-total:	7	10	48	8	5	4	1	1	6	4	2	2	2	5	1	0	1	1	0	108
Resolved	4	0	1	0	0	1	1	1	0	2	1	0	0	5	0	0	0	0	0	16
Low	1	4	0	2	1	0	0	2	0	4	3	1	0	0	0	1	0	0	0	19
Drop	1	4	4	6	13	9	2	8	5	24	6	0	0	0	0	2	1	0	2	87
RI/LI/EI	0	0	4	6	0	2	33	1	1	3	0	0	0	7	0	0	0	0	0	57
Integrated	8	2	3	6	0	1	1	3	0	5	0	0	0	0	0	0	0	0	0	29
Total Issues Prioritized:	21	20	60	28	19	17	38	16	12	42	12	3	2	17	1	3	2	1	2	316
<hr/>																				
[Annual Progress]/ Remaining Issues to be Prioritized or Reprioritized:	[+54	+1	-6	+18	-12	-12	0	-13	+17	-35	-7	-2	0	+3	+1	-3	-1	-1	-2]	0

TABLE 8A
NUMBER OF REACTOR GENERIC ISSUES SCREENED IN ACCORDANCE WITH MD 6.4 FROM FY-1999 TO FY-2006 (4TH QUARTER)**

<u>ISSUE TYPE</u>	<u>FY-98</u>	<u>FY-99</u>	<u>FY-00</u>	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>TOTAL</u>
Issues Identified to be Screened	0	2	1	1	3	1	3	2	2	15
Issues Identified to be Reevaluated	1*	0	0	0	0	0	0	0	0	1
Total:	1	2	1	1	3	1	3	2	2	16
Continue	0	0	0	1	1	2	1	1	0	6
Drop	0	0	0	1	1	1	1	0	1	5
Integrated	0	0	0	0	0	0	0	0	0	0
Total Issues Screened:	0	0	0	2	2	3	2	1	1	11
[Annual Progress]/ Remaining Issues to be Screened or Reevaluated:	[+1	+2	+1	-1	+1	-2	+1	+1	-1]	5

1. Originally identified for reprioritization, but was subjected to screening
 ** Beginning in FY-1999, GSIs began to be screened in accordance with MD 6.4, "Generic Issues Program."

TABLE 9
REACTOR GENERIC ISSUES SCHEDULED FOR SCREENING IN ACCORDANCE WITH MD 6.4

ISSUE NUMBER	TITLE	LEAD OFFICE/ DIVISION/BRANCH	IDENTIFICATION DATE	CURRENT SCHEDULE
198	Hydrogen Combustion in PWR Piping	RES/DRASP/OERA	09/2004	09/2006
199	Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States	RES/DRASP/OERA	05/2005	12/2006
200	Tin Whiskers	RES/DRASP/OERA	08/2005	02/2007
201	Small-Break LOCA and Loss of Offsite Power	RES/DRASP/OERA	08/2006	TBD
202	Spent Fuel Pool Leakage Limits	RES/DRASP/OERA	08/2006	TBD

TOTAL: 5

TABLE 10
REACTOR GENERIC ISSUES SCREENED IN ACCORDANCE WITH MD 6.4

ISSUE NUMBER	TITLE	IDENTIFICATION DATE	SCREENING COMPLETION DATE	CONCLUSION
<i>FY-2001</i>				
187	The Potential Impact of Postulated Cesium Concentration on Equipment Qualification in the Containment Sump	04/1999	04/2001	DROP
188	Steam Generator Tube Leaks/Ruptures Concurrent with Containment Bypass	06/2000	05/2001	CONTINUE
<i>FY-2002</i>				
189	Susceptibility of Ice Condenser and MARK III Containments to Early Failure from Hydrogen Combustion During a Severe Accident	05/2001	05/2002	CONTINUE
192	Secondary Containment Drawdown Time	12/2001	06/2002	DROP
<i>FY-2003</i>				
80*	Pipe Break Effects on Control Rod Drive Hydraulic Lines in the Drywells of BWR MARK I and II Containments	03/1998	02/2003	CONTINUE
186	Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants	04/1999	06/2003	CONTINUE
194	Implications of Updated Probabilistic Seismic Hazard Estimates	06/2002	09/2003	DROP
<i>FY-2004</i>				
193	BWR ECCS Suction Concerns	05/2002	10/2003	CONTINUE
195	Hydrogen Combustion in Foreign BWR Piping	02/2003	02/2004	DROP
<i>FY-2005</i>				
196	Boral Degradation	11/2003	11/2004	CONTINUE
<i>FY-2006</i>				
197	Iodine Spiking Phenomena	07/2004	05/2006	DROP

TABLE 11
NON-REACTOR GENERIC ISSUES PRIORITIZED

NMSS ISSUE NUMBER	TITLE	IDENTIFICATION DATE	DATE PRIORITIZED	CURRENT PRIORITY
<i>For non-reactor GIs prioritized from FY-1997 to FY-2000, see 4th Quarter FY-2005 GIMCS Report dated October 31, 2005 (ML053050406, ML053050399)</i>				

TABLE 11A
NON-REACTOR GENERIC ISSUES SCREENED IN ACCORDANCE WITH MD 6.4

NMSS ISSUE NUMBER	TITLE	PRIORITY	RESOLUTION PRODUCT	DATE APPROVED FOR RESOLUTION	DATE RESOLVED
<i>FY-2001</i>					
0017	Misleading Marketing Information to General Licensees	Resolved	New Rule	07/1999	07/2000
0018	Problems Encountered When Manually Editing Treatment Planning Data on Nucletron Microselection-HDR Model 105.999	Resolved	IN 99-09	03/1999	08/2000
0019	Control Unit Failures of Classic Nucletron HDR Units	Resolved	IN 99-23	07/1999	07/1999
<i>FY-2002</i>					
0010	Troxler Gauge Source Rod Weld Failures	Medium	Staff Report	05/1998	11/2001

TABLE 12
NON-REACTOR GENERIC ISSUES TO BE SCREENED IN ACCORDANCE WITH MD 6.4

There are no non-reactor generic issues awaiting screening.

TABLE 13
NON-REACTOR GSIs RESOLVED BY FISCAL YEAR

NMSS ISSUE NUMBER	TITLE	PRIORITY	RESOLUTION PRODUCT	DATE APPROVED FOR RESOLUTION	DATE RESOLVED
<i>For non-reactor GIs resolved from FY-1997 to FY-2005, see 4th Quarter FY-2005 GIMCS Report dated (ML053050406, ML053050399)</i>					

TABLE 14
NON-REACTOR GSIs SCHEDULED FOR RESOLUTION

NMSS ISSUE NUMBER	TITLE	LEAD OFFICE/DIVISION/ BRANCH	PRIORITY	DATE APPROVED FOR RESOLUTION	RESOLUTION DATE AT END OF FY-2005	CURRENT RESOLUTION DATE
0007	Criticality Benchmarks Greater Than 5% Enrichment	NMSS/FCSS/FLIB	High	05/1998	08/2006	05/2007
0014	Surety Estimates for Groundwater Restoration at In-Situ Leach Facilities	NMSS/FCSS/FCLB	Medium	07/1998	05/2006	11/2006
0016	Adequacy of 0.05 Weight Percent Limit in Part 40	NMSS/IMNS	Medium	07/1998	TBD	11/2006

TOTAL: 3

