# Status of Safety Issues at Licensed Power Plants

TMI Action Plan Requirements Unresolved Safety Issues Generic Safety Issues Other Multiplant Action Issues

U.S. Nuclear Regulatory Commission

Office of Nuclear Reactor Regulation



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#### **ABSTRACT**

As part of ongoing U.S. Nuclear Regulatory Commission (NRC) efforts to ensure the quality and accountability of safety issue information, the NRC established a program for publishing an annual report on the status of licensee implementation and NRC verification of safety issues in major NRC requirements areas. This information was initially compiled and reported in three NUREG-series volumes. Volume 1, published in March 1991, addressed the status of Three Mile Island (TMI) Action Plan Requirements. Volume 2, published in May 1991, addressed the status of unresolved safety issues (USIs). Volume 3, published in June 1991, addressed the implementation and verification status of generic safety issues (GSIs). The first annual supplement, which combined these volumes into a single report and presented updated information as of September 30, 1991, was published in December 1991. The second annual supplement, which provided updated information as of September 30, 1992, was published in December 1992. Supplement 2 also provided the status of licensee implementation and NRC verification of other multiplant action (MPA) issues not related to TMI Action Plan requirements, USIs, or GSIs. This third annual NUREG report, Supplement 3, presents updated information as of September 30, 1993.

The data contained in this supplement is produced using the NRC's safety issues management system (SIMS) database, which is maintained by the project management staff in the Office of Nuclear Reactor Regulation and by the staff in NRC's regions.

This report gives a comprehensive description of the implementation and verification status of TMI Action Plan requirements, safety issues designated as USIs, GSIs, and other MPAs that have been resolved and involve implementation of an action or actions by licensees. This report makes the information available to other interested parties, including the public. Additionally, this report serves as a follow-on to NUREG-0933, "A Prioritization of Generic Safety Issues," which tracks safety issues until requirements are approved for imposition at licensed plants or until the NRC issues a request for action by licensees.

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#### **EXECUTIVE SUMMARY**

This U.S. Nuclear Regulatory Commission (NRC) report covers the implementation and verification status of the Three Mile Island (TMI) Action Plan requirements, unresolved safety issues (USIs), generic safety issues (GSIs), and other multiplant action (MPA) issues not related to TMI Action Plan requirements, USIs, or GSIs at 109 licensed nuclear power plants. The implementation and verification status are current as of September 30, 1993.

## Background

The implementation and verification status of TMI Action Plan requirements, USIs, and GSIs was initially reported in Volumes 1, 2, and 3 of NUREG-1435, published in 1991. The first annual supplement consolidated and updated the information given in the earlier three volumes; it was published in December 1991 and provided updated information as of September 30, 1991. The second supplement was published in December 1992 and gave updated information as of September 30, 1992. Supplement 2 also gave the status of licensee implementation and NRC verification of other multiplant action (MPA) issues not related to TMI Action Plan requirements, USIs, or GSIs. This third annual report, Supplement 3, gives updated information as of September 30, 1993. The data contained herein is a product of the NRC's Safety Issues Management System (SIMS), which is maintained by the project management staff in the Office of Nuclear Reactor Regulation and by the staff in NRC's regions. The NRC has given significant attention to the quality review of TMI, USI, GSI, and other MPA implementation and verification data in SIMS.

Supplement 2 reported data on 110 plants. It included San Onofre 1 and Trojan, which are now permanently shut down. It did not include data for Comanche Peak 2, which is now fully operational. Supplement 3 reports data for 109 plants, including data for Comanche Peak 2, but excluding data for San Onofre 1 and Trojan.

## Three Mile Island Action Plan Requirements

Implementation Status. More than 99 percent of the TMI Action Plan items have been implemented at 109 licensed plants. Of the 12,898 applicable items, 12,837 have been completed or closed and only 61 remain open from an implementation standpoint.

About 38 percent of the remaining 61 open items are projected to be implemented by the end of calendar year 1994. As noted in previous supplements, some slippages have occurred in projected implementation dates. Delays in the restart of Browns Ferry Units 1 and 3 account for 34 of the 61 unimplemented items. All schedules for implementation of TMI Action Plan items with the exception of Browns Ferry 1, remain within the timeframe previously reported to the Commission and to Congress.

From an issue perspective, four major areas account for about 77 percent of the 61 remaining items: detailed control room design review items (21), accident monitoring (10), plant safety parameter display system items (8), and B&O Task Force Issues (8).

From a plant perspective, the TMI Action Plan requirements have been fully implemented or closed at 82 of the 109 licensed plants. Two plants, Browns Ferry Units 1 and 3, account for approximately 56 percent, or 34 of the 61 remaining items. Of the remaining 25 plants, each has 1 remaining item to implement, with the exception of Browns Ferry 2 and Haddam Neck, which have 2 each.

<u>Verification Status</u>. TIs have been issued for 78 individual TMI requirements to provide guidance for the field verification of licensee implementation. Of the 5,992 TMI items requiring verification, 5,939 (99 percent) have been completed.

## Unresolved Safety Issues (USIs)

Implementation Status. Approximately 90 percent of the USI items have been implemented at licensed plants. Of the 1,787 applicable items, 1,610 have been completed and 177 remain open from an implementation standpoint. On average, each plant has approximately 2 remaining items to implement, and no plant has more than 6 items to implement.

Three USIs (A-44, Station Blackout; A-46, Seismic Qualification of Equipment in Operating Plants; and A-47, Safety Implications of Control Systems) account for 90 percent of the unimplemented items. These three USIs are in varying stages of NRC review and licensee implementation, as further described in Section 3.1 of this report.

Verification Status. Five TIs have been issued to provide guidance for the field verification of licensee implementation. These TI designations correspond to USIs A-7, Mark I Long-Term Program; A-9, Anticipated Transients Without Scram; A-24, Qualification of Class 1E Safety-Related Equipment; A-26, Reactor Vessel Pressure Transient Protection; and A-44, Station Blackout.

The requirements to perform field verifications have resulted in a total of 423 items to be verified at the 109 plants. As of September 30, 1993, the NRC field verification had been completed on 292 (69 percent) of the required items.

## Generic Safety Issues (GSIs)

Implementation Status. Approximately 94 percent of the applicable items associated with GSIs have been implemented at licensed plants. Of the 2,621 applicable items, 2,463 have been completed and 158 remain open from an implementation standpoint. On average, each plant has fewer than 2 items to implement, and no plant has more than 7 items to implement. Thirty-nine plants have implemented all applicable items related to GSIs. Five GSIs account for 90 percent of the items for which implementation is incomplete. These GSIs are specifically addressed in Section 4.1 of this report.

Verification Status. Eight TIs have been issued to provide guidance for the field verification of licensee implementation. Of the 1,176 GSI items requiring verification, 1,045 (89 percent) have been completed.

## Other Multiplant Actions (MPAs)

Implementation Status. Approximately 87 percent of the applicable items associated with MPAs have been implemented at licensed plants. Of the 7,517 applicable items, 6,576 have been completed and 941 remain open from an implementation standpoint. On average, each plant has approximately 9 remaining items to implement, and no plant has more than 12 items to implement except Browns Ferry Units 1 and 3. Each of these units has 20 items. No plant has implemented all applicable items related to other MPAs. Eleven MPAs account for 85 percent of the items for which implementation is incomplete. These 11 MPAs as well as those with more than 3 open items are specifically addressed in Section 5.1 of this report.

<u>Verification Status</u>. Fifteen TIs have been issued to provide guidance for the field verification of licensee implementation. Of the 776 MPA items requiring verification, 589 (76 percent) have been completed.

## Conclusions

After a detailed review of the implementation and verification status of TMI Action Plan requirements, USIs, GSIs, and other MPAs, the NRC staff has drawn the following conclusions:

- The NRC closure process for TMI Action Plan issues, USIs, GSIs, and other MPAs is adequate for protecting the public health and safety.
- Licensees continue to make progress in implementing actions that are voluntary or that are imposed or requested by the staff. The framework exists to verify that open items are implemented in the future.
- The NRC continues to make progress in verifying the implementation actions that licensees reported complete.

• The schedule slippages related to implementing TMI Action Plan items do not pose a threat to the public health and safety. The NRC staff will continue to maintain close oversight of the implementation actions and schedules proposed by the licensees to ensure that remaining TMI requirements are completed in accordance with regulatory requirements and within acceptable time frames.

#### **ABBREVIATIONS**

ACRS Advisory Committee on Reactor Safeguards

ATWS anticipated transient without scram

BL bulletin

B&O bulletins and orders
B&W Babcock and Wilcox
BWR boiling-water reactor

BWROG Boiling Water Reactors Owners Group

CE Combustion Engineering

CPI containment performance improvement

CRGR Committee for the Review of Generic requirements

DBA design-basis accident

ECCS emergency core cooling system

GIP generic implementation procedure

GL generic letter

GSER generic safety evaluation report

GSI generic safety issue

HPCI high-pressure coolant injection

IGSCC intergranular stress corrosion cracking

IN information notice (NRC)
IPE individual plant examination

IPEEE individual plant examination of external events

IST inservice testing

LCO limiting conditions for operation

MOV motor-operated valve MPA multiplant action

NRC U.S. Nuclear Regulatory Commission

NRR Office of Nuclear Reactor Regulation (NRC)
NUMARC Nuclear Management and Resource Council

ODCM Offsite Dose Calculation Manual

PCP process control program
PORV power-operated relief valves
PWR pressurized-water reactor

PZR pressurizer

RCIC reactor core isolation cooling reactor coolant system

RES Office of Nuclear Regulatory Research (NRC)
radioactive effluent technical specifications

RG regulatory guide
RHR residual heat removal
RWCU reactor water cleanup
SBL supplement bulletin

SIMS safety issues management system

SOER	significant operating experience report
SPDS	safety parameter display system
SQUG	Seismic Qualification Utility Group
SRM	staff requirements memorandum
SSER	supplementary safety evaluation report
TI	temporary instruction
TMI	Three Mile Island
TS	technical specifications
TU	Texas Utilities (Electric)
USI	unresolved safety issue
VIB	vitai instrument bus

#### 1 INTRODUCTION

This third annual report, Supplement 3, updates the implementation and verification status of the Three Mile Island (TMI) Action Plan requirements, unresolved safety issues (USIs), generic safety issues (GSIs), and other multiplant actions (MPAs). The NRC previously published three volumes of this NUREG series. Volume 1, published in March 1991, discussed the status of TMI Action Plan requirements. Volume 2, published in May 1991, identified the implementation and verification status of actions associated with USIs. Volume 3, published in June 1991, detailed the status of GSI actions. The first annual NUREG report, Supplement 1, combined these volumes into a single report and provided updated information as of September 30, 1991. Supplement 1 was published in December 1991. The second annual NUREG report, Supplement 2, provided updated information as of September 30, 1992. In addition, Supplement 2 also provided the status of licensee implementation and NRC verification of MPA issues not related to TMI Action Plan requirements, USIs, or GSIs. This third annual NUREG report, Supplement 3, provides updated information as of September 30, 1993 for all TMI, USI, GSI, and MPA issues. Subsequent volumes will continue to be published annually to document the progress of implementation and verification of these items.

This report describes the implementation and verification status at the 109 licensed plants in the United States and makes this information available to interested parties, including the public. Supplement 2 of this NUREG series reported data on 110 plants, including San Onofre 1 and Trojan which are now permanently shut down but not including Comanche Peak 2, which is now fully operational. For the purpose of this report, San Onofre 1 and Trojan have been excluded from the data and Comanche Peak 2 has been included in the data on the implementation and verification status of TMI Action Plan requirements as well as USIs, GSIs and other MPAs.

Included herein is information on the implementation and verification status of the TMI Action Plan requirements, USIs, GSIs, and other MPAs. For the 109 licensed plants, there are 12,893 applicable items for TMI Action Plan issues, 1,787 for USIs, 2,621 for GSIs, and 7,517 for other MPAs. A total of 24,823 applicable items are addressed in this report. The information presented in this volume is current as of September 30, 1993.

## 1.1 Background

TMI Action Plan requirements, USIs, GSIs, and other MPAs are all types of generic issues that originated from increased technical understanding of the safety of nuclear power plants. This increase in understanding occurred over time and resulted from operating events, research, testing, and experience. The specific origins of these issues and the development of requirements in each area, with the exception of other MPA's, were discussed in Volumes 1 through 3 of this NUREG series. The origin for other MPAs is discussed in section 1.3 of this supplement. Actions to be taken by licensees in response to these generic issues apply to more than one plant.

The NRC evaluates the status of each licensee's implementation in conjunction with its evaluation of other NRC requirements, unique plant considerations, and interim measures. Similarly, the NRC authorizes a licensee to restart or begin operation of its plant only after carefully reviewing the plant's compliance with NRC requirements and evaluating the licensee's demonstrated capabilities to safely operate the plant. The NRC has allowed operation of a new plant, or continued operation of a licensed plant, when the licensee has not fully implemented all items discussed in this report only after ensuring that sufficient compensatory measures have been taken or after determining that plant operation presented no undue risk to the public health and safety.

The data contained in this NUREG report are a product of the NRC's Safety Issues Management System (SIMS), which is maintained by the Project Management Staff in the Office of Nuclear Reactor Regulation (NRR) and by NRC regional personnel. The NRC has given significant attention to the quality review of TMI, USI, GSI, and other MPA implementation and verification data in SIMS.

## 1.2 Process and Accountability

In 1989, the Commission adopted a six-step program for closure of generic safety issues. Although TMI requirements were treated separately, the process to achieve and verify closure of these issues is similar to that used for USIs, GSIs and MPAs. The overall NRC program consists of the following steps:

- Identifying Relevant Issues Generic concerns are typically identified by the NRC staff as a result of perceived problems at one or more operating nuclear power plants, or as a result of revised analyses pertaining to matters previously considered resolved. Issues may also be identified by others, for example, licensees, vendors, the Advisory Committee on Reactor Safeguards (ACRS), and the public. The NRC staff identified the TMI requirements by compiling and evaluating information from all available sources concerning the accident at TMI.
- Prioritizing Issues Once identified, an issue is evaluated by the staff for its potential importance to nuclear safety. The staff classifies the issue and establishes a priority for resolution based on this evaluation and on other factors, such as value-impact analysis and risk assessment. The primary purpose of prioritizing issues is to assist in the timely and efficient allocation of resources to those safety issues that have a high potential for reducing risk. Four priority categories are used: high, medium, low, and drop. A high priority ranking means that a concentrated effort is appropriate to achieve the earliest resolution practical.
- Resolving Issues The staff evaluates corrective actions that might be taken to satisfactorily resolve a safety issue. In addition to using experience, tests, and experiments, the staff may use the results of analyses, probabilistic risk assessments, or other calculations in this evaluation. The staff uses the results of such work to propose the action or actions it would consider an acceptable basis

for closing the issue. The evaluation may require NRC to change requirements or guidance.

- Imposing Requirements (USIs and TMI Action Plan Requirements) Each affected licensee or applicant is required to prepare a schedule for implementing the resolution consistent with a rule, policy statement, regulatory guide, generic letter, bulletin, or licensing guidance developed during the resolution stage. The NRC staff evaluates the importance of the issue and determines whether it is to be imposed only on plants licensed after resolution of the issue, or if the required corrective actions should be backfit to existing plants.
- Requesting Action (GSIs) The NRC staff evaluates the importance of an issue and determines the types or classes of plants to which the resolution applies. The staff also determines whether corrective action is appropriate for existing plants or only for plants licensed after resolution of the issue. These corrective actions may be imposed on licensees in the form of a rule, policy statement, regulatory guide, generic letter, bulletin, or licensing guidance. Each affected licensee or applicant is required to prepare a schedule for implementing the resolution. Once an issue is resolved, each action to be implemented is assigned a multiplant action (MPA) number for tracking purposes.
- Implementing Actions Licensees of affected plants take corrective actions to satisfy commitments made in response to the imposed requirements (TMI Action Plan requirements and USIs) or the staff's request (GSIs and other MPA issues).
   These actions may include modifications or additions to equipment, structures, procedures, technical specifications, operating instructions, and so forth.

The role of the NRC Project Manager in implementing the resolution of a particular issue depends on the safety significance of the issue and the manner in which the issue is to be addressed. Significant TMI Action Plan requirements or USIs may require backfits to existing plants. Backfitting is imposed by rule or order unless the licensee volunteers to comply, in which case a confirmatory order may be issued. In any case, a deadline is set or negotiated for completing action at the particular nuclear plant. The Project Manager monitors licensee progress toward closure and ensures that the work is completed by the negotiated date. The Project Manager ensures that the status of the item is properly documented for each plant.

Verifying Implementation – NRR staff members, NRC regional personnel and NRC resident inspectors ensure that licensees meet commitments made to the NRC for those issues requiring verification. Temporary instructions (TIs) have been issued to guide inspectors in verifying licensee implementation of corrective actions for certain generic issues that require plant hardware changes and subsequent verification by the NRC. Other issues may require engineering analysis to demonstrate continued safety of the plant, but require no specific plant configuration changes. For these issues, the NRC headquarters staff reviews and

ensures the acceptability of each analysis, and no verification at the plant site is required.

SIMS is designed to track issues from their identification through implementation of associated actions and field verification. The NRR Project Manager periodically obtains data pertaining to the licensee's implementation dates from meetings, site visits, and discussions with resident inspectors or the licensee. Recent NRC initiatives to improve the quality and the accountability of data include requirements that (1) any conclusion that a corrective action has been implemented be accompanied by a reference document from the licensee staff providing the basis for closure of the issue at the particular plant, and (2) the inspection report number and the date of the inspection be entered into SIMS if verification is required.

## 1.3 Definitions

A number of terms are used to describe generic issues and their status. These terms are important not only because they categorize issues and their origin, but because their use implies both applicability and degree of completeness. For the purposes of this report, the following definitions apply:

- Generic Safety Issue (GSI) A safety concern that affects the design, construction, or operation of all, several, or a class of riuclear power plants and may have the potential for safety improvements at such plants.
- Implemented Item An item is implemented when a licensee has completed the
  activities necessary to satisfy the requirements (or assumptions) made in the staff's
  technical resolution in accordance with commitments concerning the generic issue.
- Item The application of a TMI Action Plan requirement, USI, GSI or other MPA issue to a specific plant.
- MPA A multiplant action item originates from industry experience, new regulations/requirements, or from resolution of generic issues resulting in the issuance of a generic communication requiring action by the licensees. TMI items, USIs and GSIs are all MPAs; however, there are also other MPAs that do not fit into one of these categories. These other MPAs may be either required or voluntary.
- TMI Action Plan Item An issue applicable to one or more licensed plants as derived from NUREG-0737, Supplement 1, thereto.
- Total Plant Items The theoretical maximum number of potential items resulting from applying each issue (TMI, USI, GSI or other MPA) to all 109 plants.
- Total Applicable Plant Items The total number of applicable items determined by reviewing the applicability of each issue at each of the 109 licensed plants.

- Unimplemented Item An item is unimplemented when a plant has not completed
  the activities necessary to satisfy the actions requested or required by the staff
  following the resolution of a particular generic issue.
- Unresolved Safety Issue (USI) A matter affecting a number of nuclear power
  plants that poses important questions concerning the adequacy of existing safety
  requirements for which a final resolution has not yet been developed and that
  involves conditions not likely to be acceptable over the lifetime of the plants
  affected as identified in NUREG-0510 and subsequent annual reports to Congress
- Verification Completed A licensee's actions to implement a technical resolution for a generic issue have been inspected and verified by the NRC in accordance with the guidance provided by the applicable temporary instruction for that issue.

#### 2 THREE MILE ISLAND ACTION PLAN REQUIREMENTS

This section describes the overall status of implementation and verification of TMI Action Plan items at the 109 currently licensed plants. Supplement 2 of this NUREG series reported data on TMI Action Plan requirements for 110 plants, including San Onofre 1 and Trojan which are now permanently shut down but not including Comanche Peak 2, which is now fully operational. For the purpose of this report, San Onofre 1 and Trojan have been excluded from the data and Comanche Peak 2 has been included in the data on the implementation and verification status of TMI Action Plan requirements.

## 2.1 Implementation Status

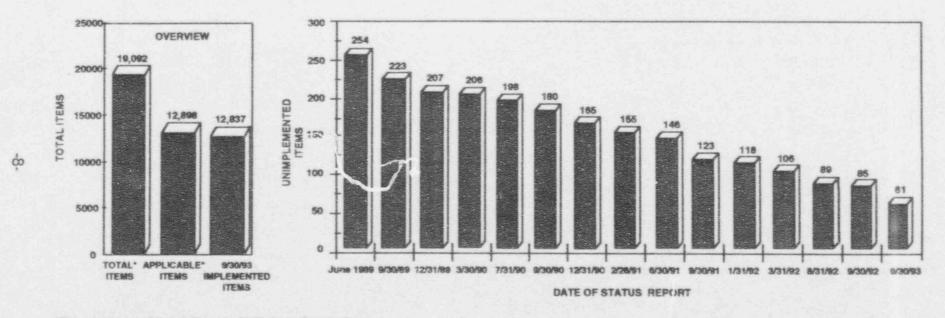
More than 99 percent of the TMI Action Plan items have been implemented or closed at licensed plants. Of the 12,898 items, 12,837 have been completed and only 61 have not yet been implemented. Figure 2.1 presents the overall status of implementing the TMI Action Plan requirements. The 12,837 items completed at the 109 licensed plants have been disposed of as follows:

- A total of 12,441 have been implemented or closed by either incorporating fixes into the plant design before licensing or by implementing the necessary requirements at operating plants.
- A total of 396 items have been superseded and the associated requirements have been effectively addressed by other items or through other regulatory means. The superseded items are discussed in detail in Volume 1 of NUREG-1435.

The following observations are made about the remaining 61 unimplemented items:

- Approximately 38 percent of these items are projected to be implemented by the end of calendar year 1994, as shown in Figure 2.2. Licensees continue to make progress toward implementation of the remaining items.
- As noted in previous status reports, some slippages have occurred in projected implementation dates. Delays in the restart of Browns Ferry Units 1 and 3 (34 items), along with the rescheduling of refueling outages at other plants account for a large number of the slippages in the implementation of remaining TMI items. Browns Ferry Unit 1 has 15 TMI items that will not be implemented until 1997. All schedules for implementing the remaining TMI Action Plan items are within the timeframe previously reported to the Commission and to Congress.
- From an issue perspective, four major areas account for about 77 percent of the 61 unimplemented items, as shown in Table 2.1: detailed control room design review items (21), accident monitoring (10), safety parameter display system items (8), and B&O Taşk Force Issues (8).

## TMI ACTION PLAN REQUIREMENTS IMPLEMENTATION STATUS AT LICENSED PLANTS



"These totals do not include items for Pt. St. Vrain, Rancho Seco, San Onofre 1, Shoreham, Trojan and Yankee Rowe plants. These plants are permanently or indefinitely shut down. The total number of licensed plants considered in this report is 109.

Figure 2.1

# PROJECTED SCHEDULES FOR REMAINING TMI ITEMS ITEMS NOT IMPLEMENTED AT END OF CALENDAR YEAR

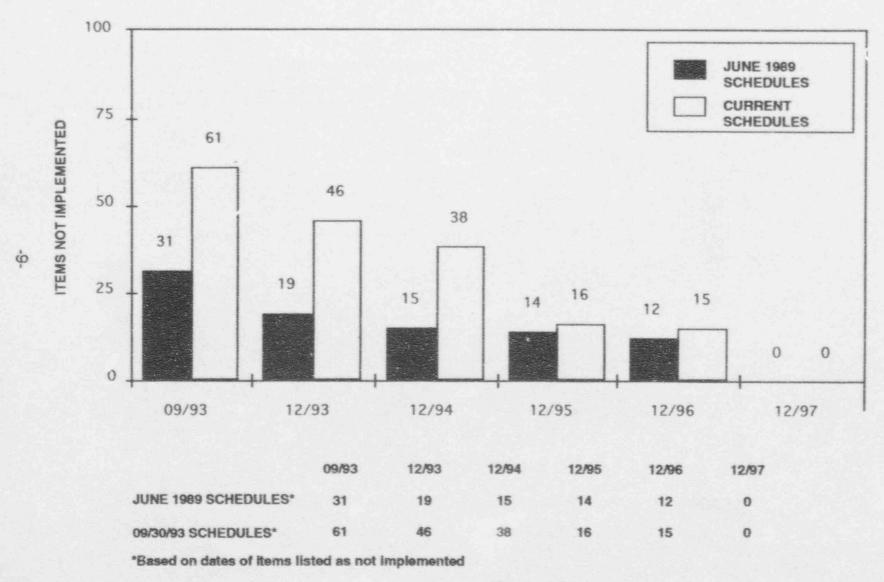


Figure 2.2

## SUMMARY OF THE REMAINING TM: ITEMS BY AREA

AREA	OPEN
o Plant SPDS Console	8
o Post-Accident Sampling	5
o Relief & Safety Valve Test Report	1
o Containment Isolation Dependability	3
o Accident Monitoring	10
o Instrumentation for Detection of Inadequate Core Cooling	4
o B&O Task Force Issues	8
o Control Room Habitability	1
o Detailed Control Room Design Review	21
TOTAL T	61

Table 2.1

• From a plant perspective, the TMI Action Plan has been fully implemented or closed at 82 of the 109 licensed plants. Table 2.2 summarizes the 61 unimplemented items by plant. Two plants account for approximately 56 percent of the remaining 61 items: Browns Ferry 1 and 3 (34 items). Browns Ferry 2 and Haddam Neck have 2 items and the remaining plants have 1 item each to implement.

Appendix A lists the unimplemented TMI items by issue and gives projected implementation dates.

## 2.2 Verification Status

For generic items, such as the TMI requirements, the Office of Nuclear Reactor Regulation issues temporary instructions (TIs), when appropriate, to specify which requirements are to be verified by the NRC after licensees have implemented the corrective actions specified in the resolution. The NRC performs these inspections, consistent with other inspection priorities, to verify proper implementation of the requirements. Verification is not considered complete until the NRC conducts the required inspection in accordance with the TI, and issues an inspection report documenting that the licensee has adequately satisfied the requirements. On occasion, there may be issues for which the verification requirements according to the TI are completed before the licensee has fully implemented all aspects of the issue.

TIs have been issued for 78 individual TMI requirements, which cover a total of 6487 items at the 109 licensed plants. Upon initial inspection of certain items and further review by the regional offices, 495 items covered by the TIs were found to be inapplicable from a verification standpoint, leaving a net total of 5992 items requiring verification. The majority of items found not applicable are cases in which initial inspections did not reveal any significant findings and for which further inspection effort cannot be justified.

As of September 30, 1993, 5939 items (99 percent) had been verified. Only 53 items remain to be verified, including some items not yet implemented by licensees.

## SUMMARY OF THE REMAINING TMI ITEMS BY PLANT

PLANT	OPEN	PLANT	OPEN	PLANT	OPEN
Big Rock Point	1	Milistone 1	1	Prairie Island 1	1
Browns Ferry 1	15	Nine Mile Pt 1	1	Prairie Island 2	1
Browns Ferry 2	2	North Anna 1	1	Quad Cities 2	1
Browns Ferry 3	19	North Anna 2	1	San Onofre 2	1
Diablo Canyon 1	1	Palo Verde 1	1 1 1	San Onofre 3	1
Diablo Canyon 2	1	Palo Verde 3	1	Sequoyah 1	1
Dresden 3	1	Pilgrim 1	1	Sequovah 2	1
Ft Calhoun	1	Point Beach 1	1	Surry 1	1
Haddam Neck	2	Point Beach 2	1	Surry 2	1

## 2.3 Status by Plant

Table 2.3 presents summary information on the status of TMI Action Plan items (except superseded items) at all licensed plants. For implementation, the table shows the number of applicable items, the number of items completed, the percentage completed, and the number of items remaining. For verification, the table shows the number of items covered by TIs at each plant, the number requiring verification, the number completed, and the percentage completed. Appendix A lists the unimplemented items by issue and gives projected implementation dates.

From an implementation standpoint, the TMI Action Plan has been fully implemented at 82 of the 109 licensed plants. Browns Ferry Units 1 and 3 (34 items) account for approximately 56 percent of the 61 remaining open items.

From a verification standpoint, all required inspections have been completed at 78 of the 109 licensed plants. Browns Ferry Units 1 and 3 have 10 items each that will require verification following implementation by the licensee. Twenty-nine plants have 2 or less items remaining to be verified.

		IMPLEME	NTATION	VERIFICATION					
UNIT	ITEMS APPLICABLE	TIEMS COMPLETE?	PER CENT COMPLETED	ITEMS REMAINING	TTEMS COVERED	ITEMS REQUIRED	ITEMS COMPLETED	PER CENT COMPLETED	
ARKAMSAS 1	122	1/2	(1001	0	62	61	61	(100)	
ARKANSAS 2	112	112	(100)	0	59	58	51	(100)	
BEAVER VALLEY 1	117	117	(100)	0	62	61	61	(100)	
	126	126	(100)	0	62	57	57	(100)	
BEAVER VALLEY 2	104	103	199 1	1	5.6	50	50	(100)	
BIG ROCK POINT 1	126	126	11001	0	62	56	56	(100)	
BRAIDWOOD 1	126	126	(100)	o o	62	56	56	(100)	
BRAIDWOOD 2		95	186 1	15	57	51	41	(80)	
BROWNS FERRY 1	110	198	(98 )	2	57	51	50	[98]	
BROWNS FERRY 2	110	91	(82)	19	57	51	41	(80 )	
BROWNS FERRY 3	110		(100)	0	57	51	51	(100)	
BRUNSWICK I	110	110		0	57	51	51	(100)	
BRUNSWICK 2	110	110	(100)	0	62	58	58	(100)	
SYRON 1	126	126	(100)	0	62	58	58	(100)	
BYRON 2	126	126	[100]			60	60	(100)	
CALLAWAY 1	123	123	(100)	0	60 59	53	53	(100)	
CALVERT CLIFFS 1	113	113	(100)	0			53	(100)	
CALVERT CLIFFS 2	113	113	(100)	0	59	53			
CATAWBA 1	126	126	(100)	0	62	60	59	[98]	
CATAWBA 2	126	126	(100)	0	62	62	61	(98 )	
CLINTON 1	120	120	(100)	0	56	56	56	(100)	
COMANCHE PEAK 1	119	119	11001	0	55	50	50	(100)	
COMANCHE PEAK 2	120	120	[100]	0	59	53	53	(100)	
COOK 1	117	117	(100)	0	62	55	55	(100)	
C90K 2	117	117	(100)	0	62	55	55	(100)	
COOPER STATION	110	110	(100)	0	57	51	51	(100)	
CRYSTAL RIVER 3	122	122	(100)	0	62	56	54	(95)	
	121	121	(100)	0	61	55	55	[100]	
DAVIS-BESSE 1	126	125	199 1		61	55	55	(100)	
DIABLO CANYON 1	126	125	199		61	57	57	[100]	
DIABLO CANYON 2	110	110	(100)	Ô	58	52	51	[98]	
DRESDEN 2		109	199 1		58	52	51	198	
DRESDEN 3	110		(100)	0	57	54	54	(100)	
DUANE ARNOLD	110	110	(100)	0	62	56	56	(100)	
FARLEY I	118	118		0	62	56	56	(100)	
FARLEY 2	128	128	(100)	0	56	50	50	(100)	
FERMI 2	120	120	(100)	0	57	56	55	(98 )	
FITZPATRICK	110	110	(100)	U U			54	198 1	
FORT CALHOUN 1	113	112	[99]	1	59	55	56	(100)	
GINNA	116	116	(100)	0	61	56			
GRAND GULF 1	120	120	(100)	0	56	50	50	(100)	
HADDAM NECK	117	115	(98)	2	62	55	54	(98)	
HARRIS I	125	125	(100)	0	61	60	60	(100)	
HATCH 1	110	110	(100)	0	57	57	57	(100)	
HATCH 2	110	110	(100)	0	57	57	56	1971	
HOPE CREEK 1	120	120	(100)	0	56	50	50	(130)	

Table 2.3

### STATUS OF THI ACTION PLAN - SUMMARY BY PLANT

		IMPLEME	NTATION			VERIF	ICATION	
UNIT	APPLICABLE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	I TEMS COVERED	ITEMS REQUIRED	I TEMS COMPLETED	PER CENT COMPLETED
INDIAN POINT 2	118	118	(100)	0	62	59	59	*******
INDIAN POINT 3	117	117	(100)	Ö	62	59	59	(100)
KEWAUNEE	117	117	(100)	0	62	58		(100)
LASALLE I	120	120	(100)	ő	56	52	57	(98)
LASALLE 2	120	120	(100)	ő	56	52	52	(100)
LIMERICK 1	120	120	(100)	0	56		52	(100)
LIMERICK 2	120	120	(100)	0	56	52	52	(100)
MAINE YANKEE	113	113	(100)	0		50	50	(100)
MCGUIRE 1	127	127	11001	0	59	56	56	(100)
MCGUIRE 2	127	127	(100)	0	62	62	61	(98 )
MILLSTONE 1	109	108		U	62	62	61	198 1
MILLSTONE 2	113	113	(99 )		56	46	45	(97 )
MILLSTONE 3	127	127	(100)	0	59	54	54	(100)
MONTICELLO	110		(100)	0	62	5.8	5.8	(100)
NINE MILE POINT I		110	(100)	0	5.7	51	51	(100)
NINE MILE POINT 2	107	106	(99)	1	56	54	54	(100)
NORTH ANNA 1	119	119	(100)	0	55	52	52	(100)
	118	117	(99)	1	62	60	60	(100)
NORTH ANNA 2	128	127	[99]	1	6.2	60	60	(100)
OCONEE 1	122	122	(100)	0	62	57	56	
OCONEE 2	122	122	(100)	0	62	58	57	(98)
OCONEE 3	122	122	[100]	0	62	58	57	(98 )
OYSTER CREEK I	107	107	(100)	0	56	47	47	(98)
PALISADES	113	113	(100)	0	59	51		(100)
PALO VERDE 1	120	119	199 1		59	52	51	(100)
PALO VERDE 2	120	120	(100)	0	59	53	52	[100]
PALO VERDE 3	120	119	199 1	1	59		53	(100)
PEACH BOTTOM 2	110	110	(100)	0	57	54	54	(100)
PEACH BOTTOM 3	110	110	(100)	0		51	51	(100)
PERRY I	120	120	(100)	0	57	51	51	(100)
PILGRIM 1	110	109	(99 )		56	55	55	(100)
POINT BEACH 1	117	116	199		57	48	48	(100)
POINT BEACH 2	117	116	199 1		62	56	56	(100)
PRAIRIE ISLAND I	117	116	(99 )		62	56	56	(100)
PRAIRIE ISLAND 2	117	116		1	62	52	52	(100)
QUAD CITIES 1	110		(99 )	1	62	53	53	(100)
QUAD CITIES 2	110	110	(100)	0	57	51	50	(98 )
RIVER BEND 1		109	(99)	1	57	51	50	(98 )
ROBINSON 2	119	119	(100)	0	56	50	50	(100)
SALEM 1	117	117	(100)	0	62	56	54	(96 )
SALEM 2	116	116	(100)	0	61	54	52	195
	127	127	(100)	0	62	57	55	196
SAN ONOFRE 2	122	121	(99)	1	59	53	53	11001
SAN ONOFRE 3	122	121	(99)	1	59	55	55	(100)
SEABROOK 1	127	127	(100)	0	62	57	57	(100)
SEQUOYAH 1	127	128	[99]	1	62	56	55	
						30	23	(98)

Table 2.3

		IMPLEM	NTATION		VERIFICATION					
UNIT	ITEMS APPLICABLE	ITF'S COM LETED	PER CENT COMPLETED	ITEMS REMAINING	ITEMS COVERED	ITEMS REQUIRED	TTEMS COMPLETED	PER CENT COMPLETED		
SEQUOYAH 2 SOUTH TEXAS 1 SOUTH TEXAS 2 ST LUCIE 1 ST LUCIE 2 SUMMER 1 SURRY 1 SURRY 2 SUSQUEHANNA 1 SUSQUEHANNA 2 THREE MILE 15'AND 1 TURKEY POINT 3 TURKEY POINT 3 TURKEY POINT 4 VERMONT YANKEE 1 VOGTILE 2 WASHINGTON NUCLEAR 2 WATERFORD 3 WOLF CREEK 1 ZION 1 ZION 2	127 126 126 127 127 117 117 120 128 117 117 119 124 120 121 121 121	126 126 127 127 116 120 128 117 110 124 120 121 117	(99 ) (100 )	1 0 0 0 0 1 1 1 0 0 0 0 0 0 0	62 62 62 62 62 63 66 66 65 66 66 65 66 66 66 66 66 66 66	58 55 55 55 55 55 55 55 55 55 55 55 55 5	8665416666659977555499	(1000) 11000) 11000) 11000) 11000 11		
TOTALS / AVERAGES	12898*	12837*	100	61	6487	5992	5939	99		

<sup>\*</sup> Excludes 396 superseded items at the 109 licensed plants

## 2.4 Status by Issue

Table 2.4 summarizes information on each TMI issue. For implementation, the table shows the number of applicable plants, the number of plants completed, the percentage completed, and the number of plants remaining. For verification, the table shows whether the issue requires verification, the number of plants covered by the TI, the number of plants requiring verification, the number of plants completed, and the percentage completed.

Of the 172 TMI Action Plan issues, 147 have been fully implemented and 4 have been superseded. Four categories of TMI Action Plan issues account for about 77 percent of the TMI requirements to be implemented: detailed control room design review, with 21 plants yet to complete implementation; accident monitoring, with 10 plants remaining to complete implementation; safety parameter display system, with 8 plants remaining to complete implementation; and B&O Task Force Issues, with 8 plants still open. The next largest contributor is post-accident sampling issues, still open at 5 plants.

ETY ISSUE MANAGEMENT SYSTEM

STATUS OF TMI ACTION PLAN - SUMMARY BY ITEM

		IMPLEMEN	EMENTATION				VERIFICATION		
IYEM AP	PLANTS APPLICABLE	PLANTS	PER CENT COMPLETED	PLANTS	REQUIRED	PLANTS	PLANTS	COMPLETED	COMPLETED
67 4 1 REACTOR CODLANT PUMP TRIP	TRIP 72	72	(1001)	0	NO				
GL-82-02 NUREG-0737 TECHNICAL S	TECHNICAL SPECIFICATIONS	109 NS	(1001)	0	ON				
GL-83-36 NUREG-0737 TECHNICAL S	TECHNICAL SPECIFICATIONS	109 NS 109	(100)	0	ON				
I A 1 1 1 SHIFT TECHNICAL ADVISOR	109 OR - ON DUTY	103	(1001)	0	YES	109	109	109	(1001)
I A I I 2 SHIFT TECHNICAL ADVISOR	109 TECH SPECS	ECS 109	(100)	0	ON				
I A 1 1 3 SHIFT TECHNICAL ADVISOR		109 109 LE CAT B	(100)	0	YES	109	109	109	(100)
I A 1 1 4 SHIFT TECHNICAL ADVISOR		- DESCRIBE LONG TERM PI	(100) PROGRAM	0	ON				
I A 1 2 SHIFT SUPERVISOR RESPO	RESPONSIBILITIES	109	(100)	0	YES	109	109	109	(1001)
I A I 3 I SHIFT MANNING - LIMIT	LIMIT OVERTIME	109	(100)	0	YES	109	109	109	(100)
I A I 3 2 SHIFT MANNING - MIN SP	MIN SHIFT CREW	109	(1001)	0	YES	601	109	109	(1001)
I A 2 1 1 INMEDIATE UPGRADING OF	108 RO &	SRO TRAINING AND QU	QUAL SRO EXPER	0 ER.	NO				
I A 2 1 2 INMEDIATE UPGRADING OF	108 RG & SRO	TRAINING AND OF	0UAL - SR0'S BE	E RO'S IVR	ON				
I A 2 1 3 UPGRADING OF	RO & SRO	108 TRAINING AND OF	QUAL - 3 MO TI	TRAINING 0	ON				
I A 2 1 4 UPGRADING OF	108 RO & SRO	TRAINING AND OF	QUAL, - MODIFY	MODIFY TRAINING	YES	108	108	108	(100)
I A 2 1 5 IMMEDIATE UPGRADING OF RO & SRO TRAINING AND	108 SRO T	RAINING AND ON	QUAL - FACILITY CERTIF	Y CERTIF	OW				

Table 2.4

		IMPLEMEN	NTATION				VERIFICATION	N	
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAIPING	REQUIRED	PLANTS	REQUIRED	PLANTS COMPLETED	
I A 2 3 ADMINISTRATION OF	109	109	(100)	0	NO				
I A 3 1 1 REVISE SCOPE & CR					NO-				
I A 3 1 2 REVISE SCOPE & CR	TITERIA FOR LICEN	109 ISING EXAMS - 1	(100) INCREASE PASSI	NG GRADE	NO NO				
I A 3 1 3 A REVISE SCOPE & CR	ETT. FOR LIC. EXA	80 MS - SIMULATOR	(100) PLANTS WITH	SIMULATORS	NO				
I.A.3 1 3.8 REVISE SCOPE & CR	TIT. FOR LIC. EXA	30 MS - SIMULATOR	(100) - OTHER PLAN	TS 0	NO				
I B 1 2 EVALUATION OF ORG			(100)	0	NO				
I C 1 1 SHORT-TERM ACCIDE	NT & PROCEDURES	109 REVIEW - SB LO	(100)	0	YES	109	109	109	(100)
I C 1.2.A SHORT-TERM ACCID.	& PROCEDURES RE	V INADEQ. C	CORE COOL REAL	NAL GUIDE	YES	109	92	92	[100]
I C.1.2.B SHORT-TERM ACCID.	& PROCEDURES RE	V INADEQ. 0	CORE COOL REV	ISE PROCED	YES	109	109	109	[100]
I.C.1.3.A SHORT-TERM ACCID.		V - TRANSIENTS	(100) & ACCDTS REA	ANAL GUIDE	YES	109	92	92	(100)
I C 1 3 B SHORT-TERM ACCID.	4 PROCEDURES RE	V TRANSIENT	S & ACCORS. RI	EVISE PROC	YES	109	109	109	(100)
I.C.2 SHIFT & RELIEF TU			(100)	0	YES	109	109	109	(100)
I C.3 SHIFT-SUPERVISOR		109	(100)	0	YES	109	109	109	(100)
I C.4 CONTROL-ROOM ACCE		109	(100)	0	YES	109	109	109	(100)
I.C.5 FEEDBACK OF OPERA		109	(100)	0	YES	109	109	109	(100)

		IMPLEME					VERIFICATIO		
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING		PLANTS	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
I C 6	109 PERFORMANCE OF OPE	109	(100)	0				109	
	OF PROC - LOW P			0	NO				
I C.7.2 NSSS VENDOR REV.	OF PROC - POWER	ASCENSION & E	MER. PROCS	0	NO				
I.C 8 PILOT MON OF SEL	LECTED EMERGENCY	PROC FOR NTOLS	(100)	0	NO				
I D 2 1 PLANT-SAFETY PAR	RAMETER DISPLAY CO	109 ONSOLE - DESCR	(100) IPTION	0	NO				
I D 2 2 PLANT-SAFETY PAR	109 RAMETER DISPLAY CO	ONSOLE - INSTA	(97 )	3	YES	109	49	49	(100)
I.D. 2.3 PLANT-SAFETY PAR	109 RAMETER DISPLAY CO	ONSOLE - FULLY	[95]	5	YES	109	39	39	(100)
I G 1 1 TRAINING DURING	LOW-POWER TESTING	G - PROPOSE TE	STS (100)	0	NO				
I G 1 2 TRAINING DURING	LOW-POWER TESTING	49 G - SUBMIT ANA	L & PROCS	c	NO				
I G 1 3 TRAINING DURING	LOW-POWER TESTING	49 G - TRAINING &	RESULTS	0	NO				
	SYSTEM VENTS - DE		(100)	0	NO				
II B 1 2 REACTOR-COOLANT	SYSTEM VENTS - II	109 NSTALL VENTS(L	L CAT B)	0	YES	109	108	108	(100)
II 8 1 3 REACTOR-COOLANT	SYSTEM VENTS - PI	109 ROCEDURES	(100)	0	YES	109	108	108	(100)
	- REVIEW DESIGNS		(100)	6	NO				
II B 2 2 PLANT SHIELDING	- CORRECTIVE ACT	109 IONS TO ASSURE	ACCESS (100)	0	NO				

Table 2.4

		IMPLEMEN				VERIFICATION					
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED		PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED		
II R 2 3	- PLANT MODIFICAT	109	[100]	0	YES	109	109	109	(100)		
II B 3 I POSTACCIDENT SAM	108 IPLING - INTERIM S	108 SYSTEM	(100)	ð	YES	108	102	102	(100)		
II B 3 2 POSTACCIDENT SAM	MPLING - CORRECTIV	108 VE ACTIONS	(99 )	1	NO						
	MPLING - PROCEDURE		(98)	2	NO						
II.B.3.4 POSTACCIDENT SAM	IPLING - PLANT MOD	DIFICATIONS (LL	(98 ) CAT B)	2	YES	109	109	106	(97 )		
II B 4 1 TRAINING FOR MIT	IGATING CORE DAMA	AGE - DEVELOP T	(100) RAINING PROGRA	AM 0	NO						
II B 4 2 A TRAINING FOR MIT	109 IGATING CORE DAMA	AGE - INITIAL	{100}	0	YES	109	109	109	(100)		
II B.4.2 B TRAINING FOR MIT	IGATING CORE DAM	AGE - COMPLETE	(100)	0	YES	109	109	109	(100)		
II D 1 1 RELIEF & SAFETY	VALVE TEST REQUIR	109 REMENTS - SUBMI	T PROGRAM	0	NO						
II D 1 2 A RELIEF & SAFETY	VALVE TEST REQUIR	109 REMENTS - COMPL	ETE TESTING	0	NO						
II D 1 2 B RELIEF & SAFETY	VALVE TEST REQUIR	109 REMENTS - PLANT	SPECIFIC REP	ORT	NO						
II.D 1.3 RELIEF & SAFETY	VALVE TEST REQUI	68 REMENTS - BLOCK	(98 )	G 1	NO						
II D 3 1 VALVE POSITION	INDICATION - INST	ALL DIRECT INDI	(100) CATIONS OF VA	LVE POS.	YES	109	109	109	(100)		
II D 3 2 VALVE POSITION	109 INDICATION - TECH	SPECS 109	(100)	0	NO						
II E 1 1 1 AFS EVALUATION-	ANALYSIS 72	72	(100)	0	NO						

	_	VERIFICATION							
ITEM	APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
II E 1 1 2 AFS EVALUATION-		71	(100)	0	YES	71	71	71	(100)
II E 1 1 3 AFS -LONG TERM M	0DS. 72	72	(100)	0	YES	72	72	72	(100)
II E 1 2 1 A AFS INITIATION &	FLOW- CONTROL GR	ADE 66	(100)	0	YES	66	66	66	(100)
	FLOW - SAFETY GR		(100)	0	YES	72	72	72	(100)
II E 1 2 2 A AFS INITIATION &	FLOW - FLOW INDU	67 OCTION CONTROL	GRADE (100)	0	YES	67	67	67	(100)
II E 1 2 2 B AFS INITITATION	% FLOW - LL CAT A	TECH SPECS.	(100)	0	NO				
	FLOW - SAFETY G		(100)	0	YES	72	72	72	(100)
II E 3.1.1 - EMERGENCY POWER	72 FOR PRESSURIZER H	72 EATERS - UPGRA	(100) DE POWER SUPPL	Y 0	VES	72	72	72	(100)
II E 3.1.2 EMERGENCY POWER I	FOR PRESSURIZER H	72 EATERS - TECH	(100) SPECS	0	NO				
II.E.4.1.1 DEDICATED HYDROGI	107 EN PENETRATIONS -	107 DESIGN	(100)	0	NO				
II.E.4 1.2 DEDICATED HYDROGE	107 EN PENETRATIONS -		(100) SE H2 CONTROL	PROC	YES	107	102	100	(98)
II.E.4.1.3 DEDICATED HYDROGE	107 EN PENETRATION -	107 INSTALL	(100)	0	YES	107	104	102	[98]
II.E.4.2.1-4 CONTAIMENT ISOLAT	109 TION DEPENDABILIT	Y - IMP. DIVER	SE ISOLATION	2	YES	109	109	108	[99]
II E 4 2 5 A CONTAINMENT ISOLA	109 AT DEPENDABILITY	- CNTMT PRESS	(100) SETPT SPECI	FY PRESS	NO				
II E 4 2 5 8 CONTAINMENT ISOLA				O RODS	YES	109	108	107	(99 )

	IMPLEMENTATION					VERIFICATION					
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS		PLANTS COMPLETED	PER CENT COMPLETED		
II E 4.2.6 CONTAINMENT ISOLAT	109 TION DEPENDABILI	108	199 1	1	YES	109		108	(100)		
II.E.4.2.7 CONTAINMENT ISOLAT	109 FION DEPENDABILI	TY - RADIATION	(100) N SIGNAL ON PU	RGE VALVES	YES	109	106	105	(99 )		
II.E.4.2.8 CONTAINMENT ISOLAT			(100) CS	ð	NO						
II F 1.1 ACCIDENT-MONITORI	109 PROCEDURES	107	(98 )	2	NO						
II F 1.2 A ACCIDENT-MONITORIA	NG - NOBLE GAS M	107 ONITOR	(98)	2	YES	109	109	109	(100)		
II.F.1.2.B ACCIDENT-MONITORIE	NG - IODINE/PART	ICULATE SAMPL	ING (98 )	2	YES	109	109	109	(100)		
II.F.1.2.C ACCIDENT-MONITORIA	109 NG - CONTAINMENT	107 HIGH-RANGE M	(98 ) ONITOR	2	YES	109	109	107	(98 )		
II F.1.2 D ACCIDENT-MONITORIA			(99 )	1	YES	109	109	107	(98 )		
II.F.1.2.E ACCIDENT-MONITORIO	NG - CONTAINMENT	WATER LEVEL	(99 )	1	YES	109	109	109	(100)		
II F.1.2 F ACCIDENT-MONITORIO			[100]	0	YES	109	108	107	(99 )		
II.F.2.2 INSTRUMENTATION FO	OR DETECT OF IN	ADEQUATE CORE	COOLING - SUB	COOL METER	YES	72	72	69	(95 )		
II F 2 3 INSTRUMENTATION F	OR DETECT. OF IN	ADEQUATE CORE	COOLING - DES	C. OTHER	NO						
II.F.2.4 INSTRMNTATN FOR DE	ETECT OF INADEQ	CORE CLNG IN	STLL ADD L INS		YES	108	105	94	(89)		
II G.1.1 POWER SUPP. FOR P	72 RESSURIZER RELIE	F. BLOCK VALVE	S & LEVEL IND	- UPGRADE	YES	72	72	72	(100)		
II G.1.2 POWER SUPP. FOR PI	72 RESSURIZER RELIE	F. BLOCK VALVE	S & LEVLE IND	- TECH SP	NO						

AFETY ISSUE MANAGEMENT SYSTEM

STATUS OF TMI ACTION PLAN - SUMMARY BY ITEM

		IMPLEMENTATION	ATION				VERIFICATION		
E 131	ANTS	PLANTS	PER CENT COMPLETED	PLANTS	REQUIRED	PLANTS	PLANTS	PLANTS	PER CENT COMPLETED
III A I I EMERGENESS.	NESS, SHORT TERM	108	(100)	0	MO				
UPGRADE EMERGENCY	SUPPORT FACILITIES	109 - INTERIM TSC 0SC &	SC 0SC & EOF	0	ON				
UPGRADE PREPAREDNESS -	109 109 15S - UPGRADE EMERGENCY PLANS	ENCY PLANS T	TO APP E, 10	O CFR 50	ON				
UPGRADE PREPAREDNESS	ISS - METEOROLOGICAL	109 L DATA	(100)	0	YES	109	65	88	(100)
III D 1 1 1 PRIMARY COOLANT OUTSIDE CONTAIMENT	ITSIDE CONTAIMENT -	- LEAK REDUCTION	(100) ION	0	YES	109	601	109	(100)
III D 1 1 2 SO PRIMARY COULANT OUTSIDE CONTAIMENT	SO STATEMENT -	TECH SPECS	(100)	0	GN				
III D 3 1 INPLANT RAD MONIT	- PROVIDE MEANS	TO DETER. PRI	PRESENCE OF RA	RADIOIODINE	YES	109	109	109	11001
INPLANT RADIATION MONIT	MONIT - MODIFICATIONS	0	ACCURATELY MEAS.	TODINE	YES	109	108	108	(1001)
CONTROL ROOM HABITABILITY -	ABILITY - REVIEW	109	(100)	0	ON				
CONTROL ROOM HABIT	HABITABILITY - SCHEDULE	SCHEDULE MODIFICATIONS	(100) NS	0	ON				
III D 3 4 3 109 CONTROL ROOM HABITABILITY -	ABILITY - IMPLEMENT	108 (98 T MODIFICATIONS	( 86 ) SNO	-	VES	109	88 05	00	(82.)
II K. I IE BULLETIN 79-05.	79-06, & 79-08	59	(100)	0	NO				
II K 1.10 IE BULLETINS - OPE	OPERABILITY STATUS	20	(100)	0	ON				
IE BULLETIMS - TRI	TRIP LOW LEVEL B/S	28	(100)	0	NO				
II K 1 20 IE BULLETINS - PRO	PROMPT MANUAL REACTOR TRIP	TRIP	(1001)	0	ON				

Table 2.4

	IMPLEMENTATION					VERIFICATION						
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS REQUIRED	PLANTS	PER CENT			
II.K.1.21	UTO SG ANTICIPATO	1	(100)	0	NO							
II K 1 22 IE BULLETINS - A	UX HEAT REM SYST	M, PROC.	(100)	ð	NO							
II K.1.23 IE BULLETINS - R	V LEVEL. PROCEDUR	ES 14	(100)	ð	NO							
II.K.I.5 IE BULLETINS - R	EVIEW ESF VALVES	50	[100]	0	NO							
II K 2 10 ORDERS ON BAW PL	ANTS - SAFETY-GRA	DE TRIP	( .00)	0	YES	7	7	7 -	(100)			
II.K.2.11 ORDERS ON B&W PL	ANTS - OPERATOR T	RAINING 7	(100)	0	YES	7	7	7	(100)			
II.K 2 13 ORDERS ON B&W PL	ANTS - THERMAL ME	70 CHANICAL REPOR	(100) RT (CE & W PLA	NTS ALSO)	ОМ							
II.K.2.14 ORDERS ON B&W PL	ANTS - LIFT FREQU	ENCY OF PORV	(100) S & SV'S	0	NO							
II.K.Z.15 ORDERS ON BAW PL	ANTS - EFFECTS OF	SLUG FLOW	(100)	0	NO							
II. K. 2.16 ORDERS ON BAW PE	ANTS - RCP SEAL D	AMAGE 7	(100)	0	NO							
ORDERS ON BAW PL	ANTS - VOIDING IN	RCS (CE & W	PLANTS ALSO)	0	NO							
II.K.2.19 BENCHMARK ANALYS	TS OF SEQUENTIAL	AFW FLOW TO O	NCETHROUGH STM	GENERATOR	NO							
II K 2 2 ORDERS ON BAW PI	ANTS - PROCEDURES	TO CONTROL A	FW IND OF ICS	0	NO							
II.K.2.20 ORDERS ON BAW PE	ANTS - SYSTEM RES	SPONSE TO SB L	0CA (100)	0	NO							
II K 2 8 ORDERS ON B&W PI	ANTS - UPGRADE AF	W SYSTEM	(100)	0	YES	7	6	6	(100)			

		IMPLEMEN	NTATION				VERIFICATION		
ITEM	PLANTS APPLICABLE 7	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING		PLANTS	PLANTS	PLANTS COMPLETED	PER CENT COMPLETED
	ANTS - FEMA ON ICS		(100)	0	YES	7	7	7	(100)
	AUTOMATIC PORV IS			0	NO				
II.K.3.1.B FINAL RECOMMENDA	TIONS, B&O TASK FOR	CE - AUTO POP	(100) RV ISO TEST/INST	ALL 0	YES	72	62	62	(100)
II K.3.10 B&O TASK FORCE -	PROPOSED ANTICIPA	TORY TRIP MOD	(100) DIFICATIONS	0	YES	45	41	41	(100)
II.K.3.11 B&O TASK FORCE -	JUSTIFY USE OF CE	RTAIN PORV	(100)	0	NO				
	ANTICIPATORY TRIP			ods 0	NO				
	ANTICIPATORY TRIP			0	YES	50	48	48	(100)
	HPCI & RCIC SYSTE			0	NO				
	HPCI & RCIC INITI			2	YES	33	33	33	(100)
	ISO CONDENSER ISO			0	YES	8	5	5	(100)
	MODIFY MOCI & RCI			0	YES	33	33	33	(100)
	CHALLENGE & FAILU			0	NO				
	CHALLENGE & FAILU			TIONS 0	YES	37	37	37	(100)
	ECC SYSTEM BUTAGE		(100)	0	NO				
I K 3 18 A &O TASK FORCE -	ADS ACTUATION STU		(100)	0	NO				

		IMPLEMEN	ITATION		VERIFICATION						
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED		PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED		
** × 3 10 0	- ADS ACTUATION PE	36	(100)	0	NO						
TT K 2 18 C	- ADS ACTUATION M	34		Ž	YES	36	35	33	(94 )		
** * * 10	- INTERLOCK RECIR	3	(100) MODIFICATIONS	Ò	YES	3	3	3	(100)		
TT K 2 2	- REPORT ON PORV	70		0	ОМ						
TT W 2 20	- LOSS OF SVC WAT	1	(100)	0	YES	1	1	1	(100)		
	- RESTART OF CSS		(100) ESIGN	0	NO						
	- RESTART OF CSS	27	(1001	rtons	YES	37	35	35	(100)		
** * * * * * *	- RCIC SUCTION VE	32	(100)	0	NO						
** × 2 22 B	- RCIC SUCTION MO	32		0	NO						
	- SPACE COOLING F	24	SS OF AC POWER	0	YES	34	34	34	(100)		
	- POWER ON PUMP S	102	(100)	0	NO						
** * * * * * *	- POWER ON PUMP S	101	(100)	0	YES	101	97	97	(100)		
** * 2 27	- COMMON REFERENCE	35	(94 )	2	YES	37	37	37	(100)		
	- QUALIFICATION (	35	(94 )	2	YES	37	36	34	(94 )		
** * * * **	- PERFORMANCE OF	6	(100)	0	NO						

			TATION				VERIFICATION	N	
ITEM	PLANTS APPLICABLE			PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
II.K.3.3 B&O TASK FORCE	REPORTING SV & R	V FAILURES AND	(100) CHALLENGES	0	NO				
II K.3.30.A B&O TASK FORCE	- SCHEDULE FOR OUT	LINE OF SB LOC	(100)	0	NO				
II.K.3.30 B B&O TASK FORCE	- SB LOCA MODEL.	JUSTIFICATION	(100)	0	NO				
II.K.3.30 C B&O TASK FORCE	- SB LOCA METHODS	109 NEW ANALYSES	(100)	0	NO				
II.K.3.31 B&O TASK FORCE	COMPLIANCE WITH	109 CFR 50.46	(100)	0	NO				
II K.3.44 B&O TASK FORCE -	- EVALUATE TRANSIE	NT WITH SINGLE	(100) FAILURE	0	NO				
II.K.3.45 B&O TASK FORCE	- ANALYSES TO SUPP	ORT 36	(100)	0	NO				
II.K.3.46 RESPONSE TO LIST	OF CONCERNS FROM	ACRS CONSULTA	NT (100)	0	NO				
II.K.3.5.A B&O TASK FORCE -	AUTO TRIP OF RCP	S PROPOSED MO	DIFICATIONS	0	NO				
II.K.3.5.B B&O TASK FORCE -	AUTO TRIP OF RCP	'S MODIFICATIO	NS (100)	0	YES	72	86	66	(100)
II K 3 57 IDENTIFY WATER S	OURCES PRIOR TO M	ANUAL ACTIVATI	(100) ON OF ADS	0	YES	23	23	20	(86 )
II K 3 7 B&O TASK FORCE -	EVALUATION OF PO	7 RV OPENING PRO	(100) BABILITIES	0	NO				
II.K.3.9 B&O TASK FORCE -	PID CONTROLLER M	50 ODIFICATION	(100)	0	YES	50	50	50	(100)
MPA-FOOR I D I I DETAILED	CONTROL ROOM DES	109 IGN REVIEW PRO	(100) GRAY PLAN	0	NO				
The state of the s	ICAL SUPPORT CENT	109 ER	(103)	0	YES	109	34	34	(100)

		IMPLEMEN	TATION				VERIFICATIO	N	
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
MPA-F064 III.A.1.2 OPERAT	IONAL SUPPORT C	ENTER 109	(100)	0	YES	109	48	48	(100)
MPA-F065 III.A.I.2 EMERGE	NCY OPERATIONS	109 FACILITY	(100)	δ	YES	109	33	33	(100)
MPA-F071 I D 1 2 DETAILED	CONTROL ROOM RE	VIEW (FOLLOWUP	(80 ) TO F-8)	21	NO				

#### 2.5 Conclusions

After a detailed review of the implementation and verification status of the TMI Action Plan requirements at all licensed plants, the NRC staff has concluded the following:

- Progress has been made in the implementation of TMI Action Plan requirements at all licensed plants.
- Licensees continue to make progress toward implementing the remaining requirements. The schedules currently proposed by licensees for completing the remaining items are acceptable and are within the timeframes given to the Commission and to Congress, with the exception of Browns Ferry 1.
- The NRC closure process for TMI Action Plan items ensures continued adequate protection of the public health and safety.

The NRC staff will maintain close watch over the implementation actions and schedules proposed by licensees to ensure that the TMI requirements that remain to be implemented are completed in accordance with regulatory requirements.

#### 3 UNRESOLVED SAFETY ISSUES

This section presents the overall status of implementation and verification of the requirements imposed following the resolution of USIs.

## 3.1 Implementation Status

Licensees achieve implementation of USI items either by incorporating corrections into the plant design before licensing or by making the modifications necessary to meet requirements at licensed plants. The information presented here includes all USI items related to the 109 licensed plants considered in this report.

Approximately 90 percent of the USI items have been implemented at licensed plants. Of the 1,787 applicable items, 1,610 have been completed and only 177 remain open from an implementation standpoint. On average, each plant has approximately 2 remaining items to implement. No plant has more than 6 remaining items. Figure 3.1 presents the overall status of, and progress on, USIs. Of the 109 licensed plants, 18 have fully implemented all applicable USIs. Table 3.1 lists the number of unimplemented USI items by plant. Appendix B lists the unimplemented USI items by issue and projected implementation dates.

USIs A-44, A-46, and A-47 account for 90 percent of the 177 unimplemented items. Figure 3.2 summarizes the implementation status of these issues. These three USIs are in varying stages of NRC review and licensee implementation, as described below.

## A-44 Station Blackout (A022)

The station blackout rule was issued in July 1988. According to the rule, licensees are required to implement their proposed modifications (hardware and procedural) within 2 years of NRC notification approving the licensee's approach. The staff has completed all of the safety evaluation reviews of licensee responses. About half of the plants have proposed major hardware modifications, while the remaining plants are expected to implement minor hardware and procedure modifications. About 40 percent of the plants have already implemented procedure modifications, and the staff expects that a large majority of licensees will complete implementation of the station blackout rule by the end of 1994.

TI 2515/120 was issued on September 24, 1993, and will be performed at 8 sites, involving all 5 regions, at which time an evaluation will be performed by NRR to determine if additional sites need to be inspected.

## A-46 Seismic Qualification of Equipment in Operating Plants (B105)

The Generic Implementation Procedure, Revision 2 (GIP-2), was developed by the Seismic Qualification Utility Group (SQUG) for implementation of USI A-46. On

# Unresolved Safety Issues Implementation Status at Licensed Plants

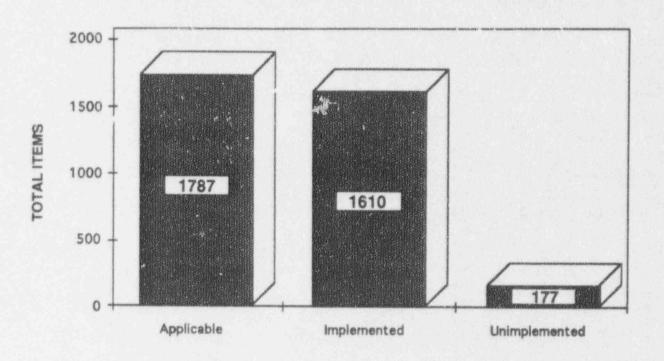
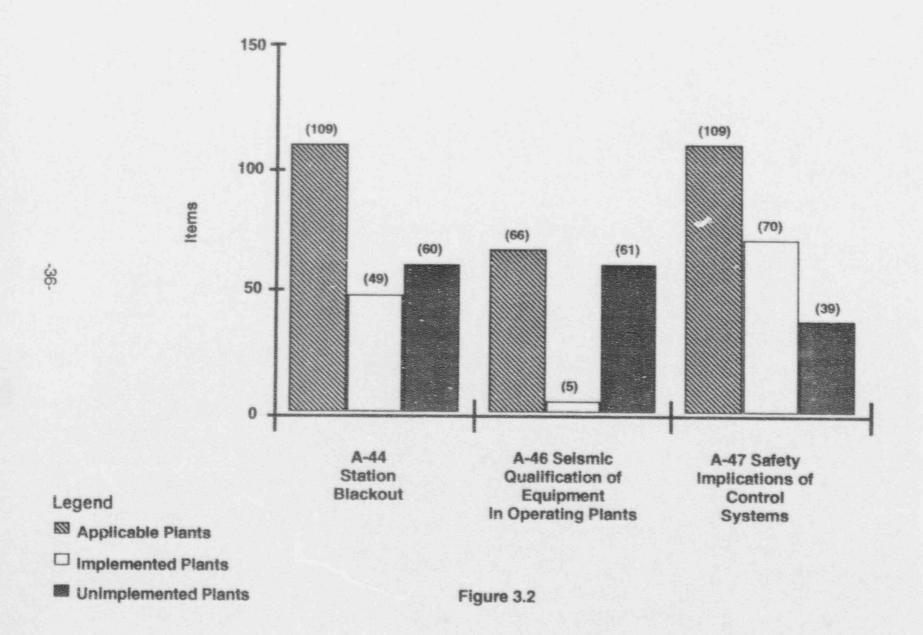


Figure 3.1

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PLANT	Items Remaining	PLANT	Items Remaining	PLANT	Items Remaining
Arkansas 1	2	Hatch 1	2	Point Beach 1	2
Arkansas 1 Arkansas 2	2	Hatch 2	2	Point Beach 2	2
	-	Hope Creek 1	1	Prairie Island 1	1
Beaver Valley 1	0	Indian Pt 2	2	Prairie Island 2	1
Big Rock Pt 1	6	Indian Pt 3	2	Quad Cities 1	A
Browns Ferry 1	0	Kewaunee	2	Quad Cities 2	A
Browns Ferry 2	2	LaSalle 1	1	River Bend 1	2
Browns Ferry 3	6	LaSalle 2	2	Robinson 2	2
Brunswick 1	2		-	Salem 1	2
Brunswick 2	2	McGuire 1		Salem 2	2
Calvert Cliffs 1	3	McGuire 2	1	San Onofre 2	2
Calvert Cliffs 2	3	Millstone 1	3	San Onofre 2	2
Catawba 1	1	Millstone 2	3		2
Catawba 2	1	Millstone 3	1	Sequoyah 1	
Clinton 1	1	Monticello	2	Sequoyah 2	1
Comanche Peak 1	1	Nine Mile Pt 1	2	St. Lucie 1	2
Cook 1	3	Nine Mile Pt 2	1	St. Lucie 2	1
Cook 2	3	North Anna 1	2	Surry 1	2
Cooper Station	2	North Anna 2	2	Surry 2	2
Crystal River 3	3	Oconee 1	2	Susquehanna 1	1
Davis-Besse 1	1	Oconee 2	2	Susquehanna 2	1
Dresden 2	2	Oconee 3	2	Three Mile Island 1	1
Dresden 3	3	Oyster Creek 1	2	Turkey Pt 3	2
Duane Arnold	1	Palisades	3	Turkey Pt 4	2
Farley 1	2	Palo Verde 1	1	Vermont Yankee 1	1
Farley 2	1	Palo Verde 2	1	Vogtle 1	1
Fitzpatrick	3	Palo Verde 3	1	Vogtle 2	1
Ft Calhoun 1	3	Peach Bottom 2	3	Washington Nuclear 2	1
Ginna	2	Peach Bottom 3	3	Waterford 3	2
Grand Guif 1	1	Perry 1	2	Zion 1	2
Haddam Neck	3	Pilgrim 1	2	Zion 2	2
Harris 1	4	r ngriin r			100

# Summary of Three Unimplemented USIs



May 22, 1992, the NRC staff issued its Supplemental Safety Evaluation Report (SSER 2) identifying the conditions under which the GIP-2 resolution is acceptable. Each licensee was required to submit its schedule for implementing the resolution by September 19, 1992. Most licensees have committed to use the GIP-2 as supplemented and clarified by SSER 2 and will provide their seismic evaluations for staff review in 1995. Florida Power Corporation (for Crystal River) and Florida Power and Light (for St. Lucie 1 and Turkey Point) are implementing plant-specific resolutions. In addition, by letter dated August 28, 1991, from Dr. T.E. Murley, the licensee for Maine Yankee was informed it need not respond to A-46.

## A-47 Safety Implications of Control Systems (B113)

The primary focus of the resolution of this USI is to provide a mechanism to trip the main feedwater pumps when a high water level occurs in the reactor vessel or steam generators. In 1990, the staff reviewed the licensees' responses to Generic Letter 89-19 and determined that:

- The Westinghouse pressurized-water reactors (PWRs) have completely implemented the GL recommendations in their designs.
- The boiling water reactors (BWRs) (except Oyster Creek and Big Rock Point) and the Combustion Engineering (CE) (except Palo Verde) PWRs concluded that the modifications recommended in the GL are not cost beneficial. The staff has agreed with the BWR Owners Group justification that no further roodifications to the existing reactor vessel overfill protection system are necessary. Letters to individual BWR licensees requesting their commitment to the BWROG resolution are being prepared. The staff is continuing its review of the CE Owners Group justification as it relates to assumptions on steam generator tube rupture probability.
- Review of the Babcock & Wilcox (B&W) plants is continuing on a plant-specific basis because the B&W Owners Group has not taken a position on this issue.

Other UC, issues with more than 3 open items are discussed below.

## A-9 Anticipated Transient Without Scram (ATWS) (A020)

Most operating reactors have installed systems to comply with the ATWS rule. Some of the plants listed as having unimplemented items have systems that are installed and operable but that may require modification or inclusion of a design aspect to fully comply with the ATWS rule. An example of a remaining item that requires resolution before full implementation at the remaining 6 operating plants is General Electric trip unit delivery. Implementation is projected to be completed at all licensed plants by April 1994.

## A-48 Hycrogen Burns (S003)

The final hydrogen rule for BWR Mark III and PWR ice condenser containment types was published on January 25, 1985. In September 1989, NUREG-1370, Resolution of Unresolved Safety Issue A-48, Hydrogen Control Measures and Effects of Hydrogen Burns on Safety Equipment," was published. NUREG-1370 concluded that no additional rule making, requirements, or guidance are necessary. NUREG-1370 stated that there are certain staff actions in the final stages, including completion of the generic SER on the Hydrogen Combine Owners Group (HCOG) report for BWR Mark III containments, and analyses to demonstrate equipment survivability in ice condenser containments. The staff evaluations for these final stages have been completed.

On May 26, 1993, the staff issued its safety evaluation regarding the Catawba and McGuire equipment survivability analyses. The staff concluded that essential equipment in ice condenser containments would survive a wide spectrum of accident sequences involving hydrogen generation.

On June 26, 1993, the staff issued a supplement to its August 6, 1990 evaluation "Acceptance for Referencing of Licensing Topical Report Titled 'Generic Hydrogen Control Information for BWR-6 Mark III Containments - HGN-112-NP." This supplement resolves HCOG concerns with the evaluation of August 6, 1990, and enables licensees to finalize and document their plant-specific analyses.

In addition to completing the above reviews relating to Mark III and ice condenser containments, the staff has resolved the recombiner issue of GL 84-09 for plants having Mark I containments but lacking post-accident hydrogen recombiners. Licensees for these facilities have upgraded or committed to upgrade existing nitrogen inerting systems to provide reliable post-accident nitrogen containment atmosphere dilution capability. Safety evaluations have been issued for all Mark 1 plants.

## 3.2 Verification Status

For generic items such as USIs, NRR issues TIs, when appropriate, to specify which requirements are to be verified by the NRC after licensees have implemented the corrective actions specified in the USI resolution. The NRC performs these inspections, consistent with other inspection priorities, to verify proper implementation of the requirements. Verification is not considered complete until the required inspection is conducted in accordance with the TI, and an inspection report has been issued documenting that requirements have been adequately satisfied by the licensee. On occasion, there may be issues for which the requirements specified in the TI for safety verification inspection are completed before total implementation of all aspects of the issue's resolution by the licensee.

Five TIs have been issued to provide guidance for the field verification of licensee implementation. The TI designations and the corresponding USIs are listed below.

TI 2500/019 A-26 Reactor Vessel Pressure Transient Protection
TI 2500/020 A-9 Anticipated Transient Without Scram
TI 2515/76 A-24 Qualification of Class 1E Safety-Related Equipment
TI 2515/85 A-7 Mark I Long-Term Program, NUREG-CS1, Supplement 1
TI 2525/120 A-44 Station Blackout

Temporary Instruction (TI) 2515/120, Station Blackout, was issued on September 24, 1993, and will be performed at 8 sites, involving all 5 regions, at which time an evaluation will be performed by NRR to determine if additional sites need to be inspected.

Table 3.2 illustrates the items remaining to be verified for these five USIs. Table 3.3 includes a summary of the verification status for each plant. Of the 423 items requiring NRC verification, 292 items (69 percent) have been completed.

## Summary of USI Items Requiring Verification

	USI	Plants Covered	Plants Required	Plants <u>Verified</u>
A-7	Mark I Long-Term Program	24	24	24
A-9	Anticipated Transient Without Scram	109	109	94
A-24	Qualification of Class 1E Safety- Related Equipment	109	109	108
A-26	Reactor Vessel Pressure Transient Protection	72	72	66
A-44	Station Blackout	109	109	0

NOTE: Covered Plants are those for which USIs are applicable.

Plants Required are those plants requiring field verification.

Plants covered but for which field verification is not necessary have implemented the resolution in a manner not requiring plant hardware changes.

## 3.3 Status by Plant

Table 3.3 summarizes information on the status of implementation and verification of USIs at all licensed plants. For each plant, the table shows the total number of applicable items, the number and percentage of items implemented, and the number of items remaining to be implemented. For those USIs that require the NRC to verify implementation actions, the table shows the number of items covered by a TI at each plant, the number of items requiring verification, and the number and percentage of sompleted.

Eighteen plants have completed all applicable USIs. Two plants have 6 items remaining to be implemented and 2 plants have 4 items remaining to be implemented. The remaining 87 plants have three or less items remaining to be implemented.

Five USIs require inspection to verify that implementing actions have been completed. Of the 109 plants, 105 have completed at least 50 percent of the applicable USIs requiring verification. For the remaining 4 plants, NRC verification is complete for 1 of the 4 USIs that are applicable at those plants.

Appendix B lists the unimplemented USI items by issue and gives the projected implementation date, where applicable.

STATUS OF USIS - SUMMARY BY PLANT

		IMPLEME	NTATION			VERIFI	CATION	
UNIT	ITEMS APPLICABLE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	TTEMS COVERED	ITEMS REQUIRED	TTEMS COMPLETED	PER CENT COMPLETED
ARKANSAS 1	16	14	187 1	2	4	4	3	175 1
ARKANSAS 2	16	14	(87 )	2			3	175 1
BEAVER VALLEY 1	16	15	193 1	1			3	175 1
	15	15	(100)	ó			3	175 1
BEAVER VALLEY 2	14	12	(85.)	2		3	2	(66)
BIG ROCK POINT 1	15	15	(100)	0				175
BRAIDWOOD 1	15	15	(100)				3	175 1
BRAIDWOOD 2		12	(66 )				2	150
BROWNS FERRY 1	18			9			1	(75 )
EROWNS FERRY Z	18	16	(88)					
BROWNS FERRY 3	18	12	(66)				2	(50 )
BRUNSWICK 1	18	16	(88)	2			3	175 1
BRUNSWICK 2	18	16	(88)	2	4	4	3	(75 )
BYRON 1	16	16	(100)	0	4	4	3	(75 )
BYRON 2	15	15	(100)	0	4		3	(75)
CALLAWAY 1	16	16	(100)	0	4	4		(75 )
CALVERT CLIFFS 1	15	13	(81)	3	4	4	3'	(75 )
CALVERT CLIFFS 2	16	13	181 1	3	4	4	3	175 1
CATAWBA I	16	15	[93]	1		4	3	175
CATAWBA 2	16	15	193		4		3	175 1
	15	14	193	1	3	3	2	185 1
CLINTON 1	15	14	1.33				1	175 1
COMANCHE PEAK 1	18	16	1100					150 1
COMANCHE PEAR Z	17	14	192 1					175 1
COOK 1	17	14	(82 )				3	175 1
COOK 2							2	175 1
COOPER STATION	18	16	[88]	4			3	175
CRYSTAL RIVER 3	16	13	(81 )	3			3	
DAVIS-BESSE 1	16	15	[93]				3	[75]
DIABLO CANYON 1	16	16	(100)	0	4		3	175
DIABLO CANYON 2	15	15	[100]	9	4	4	3	175 ]
DRESDEN 2	18	15	(88)	2	4	4	3	175 1
DRESDEN 3	18	15	(83)	3	4	4	3	(75)
DUANE ARMOLD	18	17	(94 )	1	4		3	(75)
FARLEY 1	16	1.6	187 1	2	4	4	3	(75 )
FARLEY 2	16	15	193 1	1	4	4	3	(75)
FERMI 2	16	16	(100)	0	4	4	3	(75 )
FITZPATRICK	18	15	(83 )	3			3	(75 )
	16	13	181 1	3			3	175 1
FORT CALHOUN 1	16	14	187	3			3	175 1
GINNA		15	193 1		3	3	2	166 1
GRAND GULF 1	16			2			1	175 1
HADDAM NECK	18	15	183 1				3	175
HARRIS 1	16	15	193 1	1				175
HATCH I	18	16	138 1	2	4		3	75
HATCH 2	18	16	[88]	2	4		3	175
HOPE CREEK 1	17	16	(94)	1	4	4		112.1

Table 3.3

#### STATUS OF USIS - SUMMARY BY PLANT

UNIT   APPLICABLE   COMPLETED   COMPLETE			IMPLEME	NTATION			VERIF	CATION	
INDIAN POINT 3  16  14  187  12  4  4  3  75  16  14  187  2  4  4  3  75  16  14  187  2  4  4  3  75  16  18  17  16  194  1  1  1  1  1  1  1  1  1  1  1  1  1	UNIT								
INDIAN POINT 3				187 1	2	4	4	3	175 )
REWAUNEE	INDIAN POINT 3			(87 )	2	4	4	3	
LASALLE 1 LASALLE 2 LASALL	KEWAUNEE			187 )	2	4	4	3	
LASALLE Z 16 14 (87) 2 3 3 2 666 LIMERICK LIMERICK LIMERICK Z 16 16 (100) 0 3 3 3 2 (666 LIMERICK LIME	LASALLE 1		16	[94]	1	3	3	2	(B) (C) (C)
LIMERICK 1 16 16 (100) 0 3 3 2 (66 )  LIMERICK 2 16 16 (100) 0 3 3 2 (66 )  MAINE YANKEE 16 16 (100) 0 4 4 3 3 (75 )  MCGUIRE 1 18 17 (94 ) 1 4 4 3 (75 )  MCGUIRE 2 18 17 (94 ) 1 4 4 3 (75 )  MILLSTONE 1 19 16 (84 ) 3 4 4 3 (75 )  MILLSTONE 2 16 13 (81 ) 3 4 4 4 3 (75 )  MILLSTONE 3 16 (88 ) 2 4 4 3 (75 )  MONTH ANNA 1 18 16 (88 ) 2 4 4 3 (75 )  NORTH ANNA 1 16 15 (93 ) 1 3 3 3 (75 )  NORTH ANNA 1 16 17 18 18 16 (88 ) 2 4 4 2 (50 )  NORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 )  NORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 )  NORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 )	LASALLE 2	16	14	(87 )	2	3	1	2	
LIMERICN 2  MAINE YANNEE  16  16  16  100  0  4  4  3  (75)  MCGUIRE 1  MCGUIRE 2  18  17  (94)  1 4  4  3  (75)  MILLSTONE 1  MILLSTONE 2  16  17  MILLSTONE 2  16  17  MILLSTONE 3  MILLSTONE 3  MILLSTONE 3  MILLSTONE 3  MILLSTONE 3  MONTICELLO  18  16  18  16  18  16  18  16  18  17  MONTICELLO  18  18  16  18  16  18  16  18  17  MONTICELLO  18  MONTICELLO  18  MONTICELLO  18  MONTH ANNA 1  18  16  18  16  18  17  18  16  18  16  18  17  18  16  18  17  18  16  18  17  18  16  18  17  18  18  16  18  17  18  18  18  18  18  18  18  18		16	16	(100)	0	3	1	2	
MAINE YANKEE  16 16 17 190 11 18 17 191 11 4 4 3 175 MCGUIRE 2 18 17 194 11 4 4 3 175 MILLSTONE 1 19 16 18 17 18 18 17 18 18 17 18 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	LIMERICK 2	16	16	11001	0	3	2	2	
MCGUIRE 1 18 17 (94) 1 4 4 3 3 (75) MCGUIRE 2 18 17 (94) 1 1 4 4 3 3 (75) MCGUIRE 2 18 17 (94) 1 1 4 4 3 3 (75) MCGUIRE 2 16 13 (81) 3 4 4 4 3 (75) MILLSTONE 2 16 13 (81) 3 4 4 4 3 (75) MILLSTONE 3 16 15 (93) 1 4 4 4 3 (75) MCGUIRE 1 18 16 (88) 2 4 4 4 3 (75) MCGUIRE MILE POINT 1 18 16 (88) 2 4 4 4 3 (75) MCRTH ANNA 1 16 15 (93) 1 1 3 3 2 (66) MCRTH ANNA 1 16 14 (87) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 4 2 (50) MCRTH ANNA 2 17 15 (88) 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	MAINE YANKEE	16	16	(100)	0		ă.	3	
MCGUIRE 2 18 17 (94 ) 1 4 4 3 3 (75 ) MILLSTONE 1 19 16 (84 ) 3 4 4 4 3 (75 ) MILLSTONE 2 16 13 (81 ) 3 4 4 4 3 (75 ) MILLSTONE 3 16 15 (93 ) 1 4 4 6 3 (75 ) MONTICELLO 18 16 (88 ) 2 4 4 4 3 (75 ) MINE MILE POINT 1 18 16 (88 ) 2 4 4 4 3 (75 ) MINE MILE POINT 2 18 15 (93 ) 1 3 3 2 (66 ) MORTH ANNA 1 16 14 (87 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 4 2 (50 ) MORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1.8						3	
MILLSTONE 1 19 16 (84 ) 3 4 4 3 (75 ) MILLSTONE 2 16 13 (81 ) 3 4 4 4 3 (75 ) MILLSTONE 3 16 15 (93 ) 1 4 4 4 3 (75 ) MINE MILE POINT 1 18 16 (88 ) 2 4 4 3 (75 ) MINE MILE POINT 2 16 15 (93 ) 1 3 3 2 (66 ) MORTH ANNA 1 16 14 (87 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				3 5 5 6	i	Ä		3	
MILLSTONE 2 16 13 (81 ) 3 4 4 3 (75 ) MILLSTONE 3 16 15 (93 ) 3 4 4 4 3 (75 ) MONTICELLO 18 16 (88 ) 2 4 4 3 (75 ) MINE MILE POINT 1 18 16 (88 ) 2 4 4 3 (75 ) MINE MILE POINT 2 16 15 (93 ) 1 3 3 2 (66 ) NORTH ANNA 1 16 14 (87 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (87 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 2 (50 ) MORTH ANNA 2 17 15 (88 ) 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		10			- 3				
MILLSTONE 3 16 15 (93 ) 1 4 6 3 475   MONTICELLO 18 16 (88 ) 2 4 4 3 475   MINE MILE POINT 1 18 16 (88 ) 2 4 4 3 4 3 475   MINE MILE POINT 2 16 15 (93 ) 1 3 3 2 (66 ) NORTH ANNA 1 16 14 (87 ) 2 4 4 2 (50 ) NORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) NORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) NORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) NORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) NORTH ANNA 2 17 15 (88 ) 2 4 4 4 2 (50 ) NORTH ANNA 2 17 16 14 (87 ) 2 4 4 4 1 (25 )					3			3	
MONTICELLO 18 16 (88 ) 2 4 4 3 (75 ) NINE MILE POINT 1 18 16 (88 ) 2 4 4 3 (75 ) NINE MILE POINT 2 16 15 (93 ) 1 3 3 2 (66 ) NORTH ANNA 1 16 14 (87 ) 2 4 4 2 (50 ) NORTH ANNA 2 17 15 (88 ) 2 4 4 2 (50 ) OCONEE 1 16 14 (87 ) 2 4 4 1 (25 ) OCONEE 2 16 14 (87 ) 2 4 4 1 (25 )					3			3	
NINE MILE POINT 1 18 16 [88 ] 2 4 4 3 475 ] NINE MILE POINT 2 16 15 [93 ] 1 3 3 2 [66 ] NORTH ANNA 1 16 14 [87 ] 2 4 4 2 [50 ] NORTH ANNA 2 17 15 [88 ] 2 4 4 2 [50 ] OCONEE 1 16 14 [87 ] 2 4 4 1 [25 ] OCONEE 2 16 14 [87 ] 2 4 4 1 [25 ]								3	
MINE MILE POINT 2 16 15 (93) 1 3 3 2 (66) NORTH ANNA 1 16 14 (87) 2 4 4 2 (50) NORTH ANNA 2 17 15 (88) 2 4 4 2 (50) NORTH ANNA 2 17 15 (88) 2 4 4 2 (50) NORTH ANNA 2 17 15 (88) 2 4 4 1 (25) OCONEE 1 16 14 (87) 2 4 4 1 (25)					5			3	
NORTH ANNA 1 16 14 (87) 2 4 4 2 (50) NORTH ANNA 2 17 15 (88) 2 4 4 2 (50) OCONEE 1 16 14 (87) 2 4 4 1 (25) OCONEE 2 16 14 (87) 2 4 4 1 (25)								3	
NORTH ANNA 2 17 15 [88] 2 4 4 2 [50] OCONEE 1 16 14 [87] 2 4 4 1 [25] OCONEE 2 16 14 [87] 2 4 4 1 [25]					1	3	3	2	
OCONEE 1 16 14 (87) 2 4 4 1 (25) OCONEE 2 16 14 (87) 2 4 4 1 (25)					2			2	
OCONEE 2 16 14 (87) 2 4 4 1 (25)					2			2	
- CANADA - C					<u> </u>			1	
					2				
ANALYS AREAN 1					2	9		1	125 1
					2			3	
1272 1022 1					3			3	
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					1		4	3	
BALA DEADE A		15			1	4	4	3	
ACADH BATTON A					3	4	4	3	
BEACH BOTTOM &					3		4	3	
Brany /					3	4		3	
					2	3	3	2	
BOTHY PERCH !					2		4	3	
DOTHY DEACH 2		10			Z	4		3	
POINT BEACH 2 16 14 (87) 2 4 4 3 (75)					2	4	4	3	
PRAIRIE ISLAND 1 18 15 (93) 1 4 4 3 (75)	PHAIRIE ISLAMU I				1		4	3	
PRAIRIE ISLAND 2 16 15 (93) 1 4 4 3 (75)	PRAIRIE ISLAND Z				1	4	4	3	
QUAD CITIES 1 18 14 (77) 4 4 4 3 (75)					4	4		3	(75)
QUAD CITIES 2 18 14 (77) 4 4 4 3 (75)					4	4	4	3	175 1
RIVER BEND 1 15 13 (86) 2 3 3 2 (66)		15			2	3	3	2	(66)
ROBINSON 2 16 14 (87) 2 4 4 3 (75)					2	4	4	3	(75)
SALEM 1 16 14 (27) 2 4 4 3 (75)				4 4 7 2	2	4	4	3	(75)
SALEM 2 17 15 (88 ) 2 4 6 3 (75 )				(88)	2	4	4	3	(75 )
SAN ONOFRE 2 16 14 (87) 2 4 4 3 (75)					2	4	4	3	175 1
SAN UNUFRE 3 16 14 (87) 2 4 4 3 (75)				[87]	2	4	4	3	175 1
SEABROOK 1 15 15 (100) 0 4 4 3 (75)				(100)	0	4	4	3	
SEQUOYAH 1 18 17 (94) 1 4 4 2 (50)	SEQUOYAH 1	18	17	(94 )	1	4	. 4	2	

Table 3.3

STATUS OF USB - SUMMARY BY PLANT

		IMPLEME	MOITATE			VERIFI	CATION	
UNIT	ITEMS APPLICABLE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	ITEMS COVERED	ITEMS REQUIRED	ITEMS COMPLETED	PER CENT COMPLETED
SEQUOYAN 2 SOUTH TEXAS 1 SOUTH TEXAS 2 ST LUCIE 1 ST LUCIE 2 SUMMER 1 SURRY 1 SURRY 2 SUSQUEHANNA 1 SUSQUEHANNA 2 THREE MILE ISLAND 1 TURKEY POINT 3 TURKEY POINT 4 VERMONT YANKEE 1 VOGILE 1 VOGILE 1 VOGILE 2 WASHINGTON NUCLEAR 2 WATERFORD 3 WOLF CREEK 1 ZION 1	8556666676666856665656666	1755456446554474553644	(94) (100) (	10022112221111112222	4 4 4 4 4 4 3 3 3 4 4 4 4 4 3 3 4 4 4 4	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	とうさいらいらいいいいいいいいいいいっちゃん	55550050066500505056555555555555555555
TOTALS / AVERAGES	1787	1610	90	177	423	423	292	69

## 3.4 Status by Issue

Table 3.4 presents summary information on the status of implementation and verification of each USI. For each issue, the table shows the number of applicable plants, the number and percentage of plants that have completed implementation, and the number of plants remaining to complete implementation. For those issues requiring NRC verification of corrective actions, the table shows the number of plants covered by the issue, the number of plants at which verification is required, and the number and percentage of plants that have completed verification.

Of the 27 USIs, 19 have been fully implemented. (USIs A-3, A-4, and A-5 relate to steam generator tube integrity for the three major PWR vendors and are considered separate issues.) Three USIs account for 90 percent of the unimplemented items: A-44, Station Blackout, with 60 plants remaining to complete implementation; A-46, Seismic Qualification of Equipment in Operating Plants, with 61 plants remaining to complete implementation; and A-47, Safety Implication of Control Systems, with 39 plants remaining to complete implementation. These three, largely unimplemented, USIs are in varying stages of NRC review and licensee implementation, as discussed in Section 3.1 of this report. Six plants have not implemented corrective actions for A-9, Anticipated Transient Without Scram, and 6 plants have not implemented corrective actions for USI A-48, Hydrogen Control Measures and Effects of Hydrogen Burns. The remaining USIs have 1 or 2 plants remaining to complete implementation.

NRC inspection to verify licensee implementation is required for five USIs and is complete for USI A-7, Mark I long-term program. Station blackout accounts for 109 of the 292 outstanding verifications.

		IMPLEMENTATION	ATION				VERIFICATION		
ITEM	PLANTS	PLANTS	DER CENT	PLANTS	REQUIRED	PLANTS	PLANTS	COMPLETED	PER CENT COMPLETED
A-1 WATER MARRER	109	100	(100)	0	OM				
A-2 ASYMPETRIC BLOWDOWN LOADS ON REACTOR PRIMARY COOLANT SYSTEMS	12 LOADS ON REACT	TOR PRIMARY COO	LANT SYSTEMS	0	OM.				
A-3, 4 AMD 5 STEAM GENERATOR TUBE INTEGRITY	72 SE INTEGRITY	72	(100)	0	ON				
A-6 MARK I SHORT-TERM PROGRAM	23 PROGRAM	23	(100)	0	ON				
A-7 MARK I LONG-TERM PROGRAM	24 ROGRAM	22	1 161	2	YES	2.8	2.8	24	(100)
A-8 MARK II COMTAINMEN	II COMTAINMENT POOL DYNAMIC LOADS LONG-TERM PROGRAM	LUADS LONG-TERM	(100) PROGRAM	0	GN				
A TWS	109	103	(96)	60	YES	108	103	<b>9</b>	60 80
A-10 BWR FEEDWATER NOZZLE CRACKING	JE CRACKING	36	(100)	0	OM				
A-11 REACTOR VESSEL MATERIALS TOUGHNESS	ERIALS TOUGHMES	109	(1001)	0	OM				
A-17 SYSTEM INTERACTIONS IN NUCLEAR POWER PLANTS	S IN MUCLEAR PO	WER PLANTS	(100)	0	OM				
A-24 GUALIFICATION OF CLASS IE SAFETY-RELATED EQUIPMENT	LASS IE SAFETY-	RELATED EQUIPME	1 86) TM3	2	YES	109	108	103	
A-26 RESSEL PRESSURE TRANSTENT PROTECTION	SSURE TRANSIENT	PROTECTION	(100)	0	YES	12	72	80 100	16)
A-31 RHR SHUTDOWN REQUIREMENTS	REPERTS	95	( 86)	1	MO				
A-36 (CO10) LOADS OVER SPENT FUEL CONTROL OF HEAVY LOADS OVER SPENT FUEL	DADS OVER SPERT	FUEL POOL (PHASE ONE)	ASE ONE)	0	980				
A-36 (COIS) CONTROL OF HEAVY LOADS - PHASE II (FOLLOWUP OF MPAS C-10	DADS - PHASE II	I IFOLLOWUP OF	(100) MPAS C-10)	0	OM				

Table 3.4

#### STATUS OF USIS - SUMMARY BY ITEM

	*********	IMPLEME	NTATION				VERIFICATIO	N	
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLAM S REQU'RED	PLANTS COMPLETED	PER CENT
A-39 DETERMINATION OF	36	36 LOADS & TEMP	(100) LIMITS FOR 8W	VR CHIMNIS	MO	******			
A-40 SEISMIC DESIGN CR	ITERIA 3	3	(100)	ð	NO				
A-42 PIPE CRACKS IN BO	ILING WATER REAC	TORS 38	(100)	ð	MO				
A-43 CONTAINMENT EMERGE	109 ENCY SUMP PREFOR	109 MANCE	(100)	0	NO				
A-44 STATION BLACKOUT	109	49	(44 )	60	YES	109	109	0	(0 )
A-45 SHUTDOWN DECAY HEA	T REMOVAL REQUI	109 REMENTS	[100]	0	NO				
A-46 SEISMIC QUALIFICAT		5 IT IN OPERATING	PLANTS	81	NO				
A-47 SAFETY IMPLICATION	109 OF CONTROL SYS	TEMS 70	(64 )	39	NO				
A-48 HYDROGEN CONTROL N	EASURES AND EFF	ECTS OF HYDROG	(87 ) EN BURNS		NO				
A-49 PRESSURIZED THERMA	72	72	[100]	0	NO				

Table 3.4

#### 3.5 Conclusions

After a detailed review of the implementation and verification status of the resolution of the 27 USIs, the NRC staff has concluded the following:

- The NRC closure process for USIs ensures continued adequate protection of the public health and safety.
- All USIs have been resolved by the NRC, and progress has been made in implementing and verifying required changes at plants.
- Licensees are making adequate progress toward in plementing requirements imposed following the NRC's resolution of USIs, and the framework exists to oversee future implementation of delayed items.
- Although the resolution of USIs involves complex technical issues and analyses, it appears that all required implementation items can be completed in accordance with regulatory requirements.

#### 4 GENERIC SAFETY ISSUES

This section presents the overall status of implementation and verification of GSIs applicable at the 109 licensed plants. Because each GSI may be tracked under different designations, Table 4.1 cross-references the GSI and sub-issue number and the SIMS numbers used in the tables and appendices of this report.

#### 4.1 Implementation Status

Licensees achieve implementation of GSI items either by incorporating corrections into the plant design before licensing or by making the modifications necessary to meet the requested actions at licensed plants. The information presented here includes all GSI items related to the 109 licensed plants considered in this report.

Approximately 94 percent of the GSI items have been implemented at licensed plants. Of the 2,621 items, 2,463 have been completed and 158 remain open from an implementation standpoint. On average, each plant has less than 2 items to implement, and no plant has more than 7 remaining items. Figure 4.1 presents the overall status of, and progress on, GSIs. Of the 109 licensed plants, 39 have implemented all applicable GSIs. Table 4.2 lists the number of unimplemented items by unit. Appendix C lists the unimplemented GSI items by issue and projected implementation dates.

Five GSIs have not been implemented at a number of plants for which they are applicable; these account for approximately 90 percent of the unimplemented items. Figure 4.2 summarizes the implementation status of these issues. A brief description of each issue follows.

## GSI 43 Reliability of Air Systems (B107)

In August 1988, the staff issued GL 88-14 to specify the performance of a design and operations verification of instrument air systems and descriptions of licensees' programs for maintaining proper instrument air quality. The staff gave licensees 6 months in which to confirm that these actions had been accomplished or to commit to perform them during a subsequent outage. The licensees for operational plants that still have this issue open are scheduled to complete implementation by the end of 1993. Most of the plants that still have this issue open have completed 80 to 90 percent of the significant recommended actions and are awaiting a suitable outage opportunity to complete the final actions. The staff believes that the planned completion schedules do not pose any significant safety risk.

# GSI Numbers and Corresponding SIMS Item Numbers

	SIMS	001 11-	MPA	SIMS_Title
1	tem No.	GSI No.	No.	SIMS TIME
4	10	40	B065	Safety Concerns Associated With Pipe Breaks in BWR Scram System
	11	41	B050	BWR Scram Discharge Volume Systems
	GL-88-14	43	B107	Instrument Air Supply System Problems Affecting Safety-Related Equip.
	GL-89-13	51	L913	Service Water System Problems Affecting Safety-Related Equipment
	67.3.3	67.3.3	A017	Improved Accident Monitoring
	70	70	8114	PORV and Block Valve Reliability
	75 (B076)	75, Item 1.1	B076	Item 1.1 - Post-Trip Review; Program Description & Procedures
	75 (B085).	75, Item 1.2	B085.	Item 1.2 - Salem ATWS 1.2 Data Capability
	75 (B077)	75, Item 2.1	B077	Item 2.1 - Equipment Classification & Vendor Interface - RTS Component
	75 (B086)	75, Item 2.2.1	B086	Item 2.2.1 - Salem ATWS 2.2 S-R Components
	GL-90-03	75, Item 2.2.2	L003	Item 2.2.2 - Relaxation of Staff Pos in Gen Letter 83-28, Item 2.2 Part 2
	75 (B078)	75, Items 3.1.1 & 3.1.2	B078	Items 3.1.1 & 3.1.2 - Post-Maintenance Test Procedures & Vendor Recomm.
	75 (B079)	75, Item 3.1.3	B079	Item 3.1.3 - Post-Maintenance Testing - Changes to Tech Specs - RTS Component
	75 (B087)	75, Items 3.2.1 & 3.2.2	B087	Items 3.2.1 & 3.2.2 - Salem ATWS 3.2.1 & 3.2.2 S-R Components
	75 (B088)	75, Item 3.2.3	B088	Item 3.2.3 - Salem ATWS 3.2.3 T.S. S-R Components)
	75 (B080)	75, Item 4.1	B080	Item 4.1 - Reactor Trip System Reliability - Vendor Related Mods
	75 (B081)	75, Items 4.2.1 & 4.2.2	B081	Items 4.2.1 & 4.2.2 - Preventative Maint Prog for Reactor Trip Breakers
	75 (B082)	75, Item 4.3	B082	Item 4.3 - Automatic Actuation of Shunt Trip Attach. for West & B&W
	75 (B090)	75, Item 4.3	B090	Item 4.3 - Salem ATWS 4.3 W and B&W T.S.
	75 (B091)	75, Item 4.4	B091	Item 4.4 - Salem ATWS 4.4 B&W Test Procedures
7	75 (B092)	75, Item 4.5.1	B092	Item 4.5.1 - Salem ATWS 4.5.1 Diverse Trip Features
7	75 (B093)	75, Items 4.5.2 & 4.5.3	B093	Items 4.5.2 & 4.5.3 - Salem ATWS 4.5.2 & 4.5.3 Test Alternatives
8	36	86	B084	Long Range Plan Dealing With Stress Corrosion Cracking in BWR Piping
. (	GL-88-03	93	B098	Resolution of GSI 93, "Steam Binding of Auxiliary Feedwater Pumps"
	94	94	B115	Additional Low-Temp Overpressure Protection for LWRs
(	GL-88-17	99	L817	Loss of Decay Heat Removal
	124	124	S001	Auxiliary Feedwater System Reliability
. (	GL-80-099	A-13	B107	Technical Specification Revision for Snubber Surveillance
(	GL-84-13	A-13	B022	Technical Specification for Snubbers
1	A-16	A-16	D012	Steam Effects on BWR Core Spray Distribution
- 1	MPA-B023	A-35	B023	Degraded Grid Voltage
-	B-10	B-10	S008	Behavior of BWR Mark III Containments
	3-36	B-36	none	Dev Design, Test & Maint Criteria for Atmo Cleanup Sys Air Filter & Adsorption Units
(	GL-80-014	B-63	B045	LWR Primary Coolant System Pressure Isolation Valves

Table 4.1

# Generic Safety Issues Implementation Status at Licensed Plants

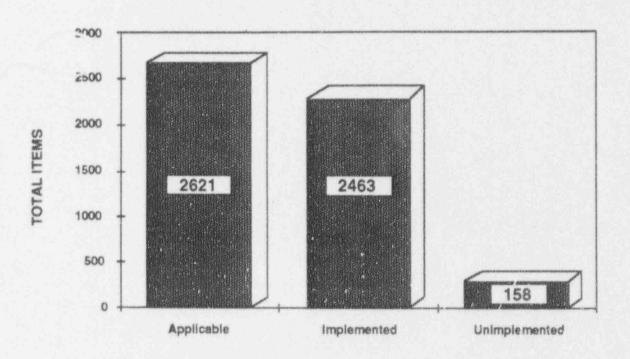
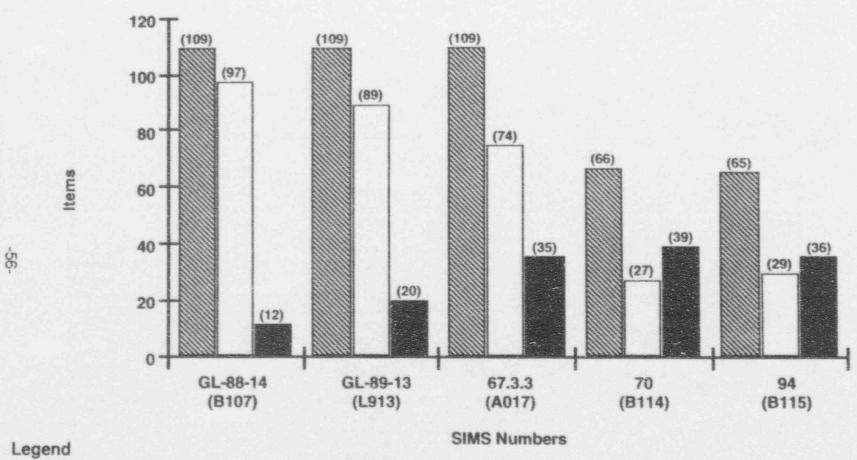


Figure 4.1

## Summary of Unimplemented GSI Items by Plant

PLANT	Items Remaining	PLANT	items Remaining	PLANT	items Remaining
Arkansas 2	1	Haddam Neck	4	Palo Verde 2	1
Beaver Valley 1	3	Hatch 1	1	Perry 1	2
Beaver Valley 2	2	Hatch 2	1	Point Beach 1	2
Braidwood 1	1	Indian Pt 2	3	Point Beach 2	2
Braidwood 2	2	Indian Pt 3	2	Quad Cities 1	2
Browns Ferry 1	6	Kewaunee	3	Quad Cities 2	3
Browns Ferry 2	2	LaSalle 1	1	Robinson 2	2
Browns Ferry 3	7	LaSalle 2	1	Salem 1	2
Calvert Cliffs 1	4	Maine Yankee	2	Salem 2	2
Calvert Cliffs 2	5	McGuire 1	4	San Onofre 2	1
Catawba 1	2	McGuire 2	4	San Onofre 3	1
Catawba 2	2	Millstone 1	3	South Texas 1	3
Cook 1	3	Millstone 2	3	South Texas 2	3
Cook 2	3	Milistone 3	3	St. Lucie 1	1
Cooper Station	1	Nine Mile Pt 1	1	St. Lucie 2	1
Crystal River 3	5	Nine Mile Pt 2	1	Summer 1	3
Dresden 2	1	North Anna 1	2	Surry 1	2
Dresden 3	2	North Anna 2	2	Surry 2	2
Farley 1	1	Oconee 1	1	Turkey Pt 3	2
Farley 2	1	Oconee 2	1	Turkey Pt 4	2
Fermi 2	1	Oconee 3	1	Wolf Creek 1	1
Ft Calhoun 1	3	Oyster Creek 1	2	Zion 1	4
Ginna	4	Palisades	1	Zion 2	4
Grand Gulf 1	1				

# **Summary of Five Unimplemented GSIs**



**▼** Total

Implemented

Unimplemented

Figure 4.2

## GSI 51 Proposed Requirements for Improving the Reliability of Open-Cycle Service Water Systems (L913)

This issue was developed as a result of uncertainties regarding the compliance of service water systems with the regulations. In July 1989, the staff issued GL 89-13 requesting licensees to take certain actions and establish programs to ensure continued compliance of their service water systems with the applicable regulations. The staff asked licensees to submit implementation plans and schedules by early 1990. The actions and programs have been implemented at approximately 80 percent of all plants. Temporary Instruction TI2515/118 was issued on December 29, 1992, to assess the licensees' planned or completed actions in response to GL 89-13. The staff considers the status of this GSI acceptable.

## GSI 67.3.3 Improved Accident Monitoring (A017)

This issue addresses conformance with RG 1.97, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident." The staff issued GL 82-33 in December 1982 to request licensees to submit schedules and details of their plans to implement the provisions of RG 1.97, Revision 2. The licensee responses to this generic letter prompted the staff to issue confirmatory orders in 1985. Because the industry has taken exception to and appealed some of the provisions of RG 1.97, Revision 2, implementation is incomplete at many plants.

The issue of Category 1 neutron flux monitoring system at BWRs has been resolved, although some PWR licensees have yet to install Category 2 qualified instrumentation to monitor containment sump water temperature. The staff is seeking closure on the PWR issue on a generic basis. Some other plant-specific issues still remain, and supplemental safety evaluations are being prepared to close those issues.

GSI 70 PORV and Block Valve Reliability (B114), and
 GSI 94 Additional Low-Temperature Overpressure Protection for Light-Water Reactors (B115)

The staff determined that the low-temperature overpressure protection (LTOP) system unavailability is the dominant contributor to risk from low-temperature overpressure transients. The staff further concluded that a substantive improvement in availability, when the potential for an overpressure event is the highest, and especially during water-solid operations, can be achieved through improved administrative restrictions on the LTOP system.

The staff considered the conditions under which a low-temperature overpressure transient is most likely to occur. While LTOP is required for all shutdown models, the most vulnerable period was found to be MODE 5 (cold shutdown) with the

reactor coolant temperature less than or equal to 200°F. The basis of the detailed evaluation of operating reactor experiences performed in support of GI-94. LTOP transients that have challenged the system have occurred with reactor coolant temperatures in the range of 80°F to 190°F. In addition, a review of the STS for containment integrity indicates that there are no specific requirements imposed during MODE 5, when the reactor coolant temperature is below 200°F. Industry responses to GL 87-12, "Loss of RHR While RCS Partially Filled," dated July 9, 1987, also indicate that containment integrity during MODE 5 is often relaxed to allow for testing, maintenance, and the repair of equipment.

In all instances when pressure/temperature limits in the TS have been exceeded, one LTOP channel was removed from service for maintenance-related activities. During these events the redundant LTOP channel failed to mitigate the overpressure transient as a result of a system/component failure that had not been detected.

The current 7-day AOT for a single channel is considered to be too long under certain conditions. The staff concluded that the AOT for a single channel should be reduced to 24 hours when operating in MODE 5 or 6 when the potential for an overpressure transient is highest. The operating reactor experiences indicate that these events occur during planned heatup (restart of an idle reactor coolant pump) or as a result of maintenance and testing errors while in MODE 5. The reduced AOT for a single channel in MODES 5 and 6 will help to emphasize the importance of the LTOP system in mitigating overpressure transients and provide additional assurance that plant operation is consistent with the design basis transient analyses.

On the basis of the forgoing concerns, added assurance of LTOP availability is to be provided by revising the current technical specification for overpressure protection to reduce the AOT for a single channel from 7 days to 24 hours when the plant is operating in MODES 5 and 6. The guidance provided also is applicable to plants that rely on both PORVs and RHR SRVs or that rely on RHR SRVs only.

## 4.2 Verification Status

For generic items such as GSIs, NRR issues TIs for those items that need to be verified in the field by the NRC staff after licensees have implemented the actions specified in the GSI resolution. The NRC performs these inspections, consistent with other inspection priorities, to verify proper implementation of the requirements. Verification is not considered complete until the required inspection is conducted in accordance with the TI and an inspection report has been issued documenting that the requirements have been adequately satisfied by the licensee. On occasion, there may be issues for which the requirements specified in a TI for safety verification inspection are completed before full implementation of all aspects of the issue's resolution by the licenser. Of the 1,176 items requiring NRC verification, 1,045 (89 percent) have been applied.

Eight TIs provide guidance for the field verification of licensee implementation of GSIs. TI designations and the corresponding GSIs are provided in Table 4.3. Table 4.4 summarizes the items remaining to be verified.

# Temporary Instructions for Resolved GSIs

SIMS Item	SIMS Title	II
41	BWR SCRAM DISCHARGE VOLUME SYSTEM	2515/090
67.3.3	IMPROVED ACCIDENT MONITORING	2515/087
75 (8077)	ITEM 2.1 - EQUIPMENT CLASSIFICATION & VENDOR INTERFACE - RTS COMPONENT	2515/064
75 (B078)	ITEMS 3.1.1 & 3.1.2 - POST MAINTENANCE TEST PROCEDURES & VENDOR RECOMM.	2515/064
75 (B079)	ITEMS 3.1.3 - POST MAINTENANCE TESTING - CHANGES TO TECH SPECS - RTS COMPONENT	2515/064
75 (8080)	ITEM 3.1 - REACTOR TRIP SYSTEM RELIABILITY - VENDOR RELATED MODS	2515/091
75 (B081)	ITEMS 4.2.1 & 4.2.2 - PREVENTIVE MAINTENANCE PROGRAM FOR REACTOR TRIP BREAKERS SALEM ATWS 3.2.1 & 3.2.2 S-R COMPONENTS	2515/064
75 (B086)	SALEM ATWS 2.2 S-R COMPONENTS	2515/064
75 (B087)	SALEM ATWS 3.2.1 & 3.2.2 S-R COMPONENTS	2515/064
75 (B088)	SALEM ATWS 3.2.3 T.S. S-R COMPONENTS	2515/064
75 (B092)	SALEM ATWS 4.5.1 - DIVERSE TRIP FEATURES	2515/064
86	LONG RANGE PLAN DEALING WITH STRESS CORROSION CRACKING IN BWR PIPING	2515/089
GL-88-17	LOSS OF DECAY HEAT REMOVAL	2515/101 2515/103
GL-89-13	SERVICE WATER SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPMENT	2515/118

Table 4.3

## Summary of GSI Items Requiring Verification

	SIMS_Item	Plants Covered	Flants Regulred	Plants Verified
41	BWR SCRAM DISCHARGE VOLUME SYSTEMS	37	37	36
67.3.3	IMPROVED ACCIDENT MONITORING	109	108	94
75 (B080)	ITEM 4.1 - REACTOR TRIP SYSTEM RELIABILITY - VENDOR RELATED MODS	72	72	71
86	LONG RANGE PLAN DEALING WITH STRESS CORROSION CRACKING IN BWR PIPING	36	36	4
GL-88-17	LOSS OF DECAY HEAT REMOVAL	72	72	66
GL-89-13	SERVICE WATER SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPMENT	109	107	0

NOTE: Plants Covered are those for which GSIs are applicable.

Plants Required are those plants requiring field verification.

Plants covered but for which field verification is not necessary have implemented the resolution in a manner not requiring plant hardware changes.

Table 4.4

## 4.3 Status by Plant

Table 4.5 summarizes the status of implementation and verification of GSIs at all licensed plants. For each plant, the table shows the total number of applicable items, the number and percentage of items implemented, and the number of items remaining to be implemented. For those GSIs that require NRC to verify implementation of corrective actions, the table shows the number of items covered by the TIs at each plant, the number of items requiring verification, and the number and percentage of items completed. Appendix C lists the unimplemented GSI items by issue and gives projected implementation dates.

Of the 109 plants, 39 have completely implemented all GSI items. Forty-seven plants have completed implementation actions for all except 1 or 2 GSIs; 19 plants have 3 or 4 items to implement; and the remaining 4 plants have 5 to 7 items to implement.

Of the 109 plants, one plant has completed all of the items requiring verification by inspection (in accordance with a TI); 107 plants have completed all but 1 or 2 items requiring verification; and one plant has completed all but 3 items.

#### STATUS OF GSIS - SUMMARY BY PLANT

		IMPLEME	NTATION		VERIFICATION			
UNIT	ITEMS APPLICABLE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	I TEMS COVERED	ITEMS REQUIRED	TTEMS COMPLETED	PER CENT COMPLETED
ARKANSAS 1	27	27	(100)	0	12	4	3	175 1
ARKANSAS Z	25	24	195 1	1	12		1	(75 )
BEAVER VALLEY I	26	23	[88]	3	12	12	11	(91 )
BEAVER VALLEY 2	27	25	192 )	2	12		- 3	175 1
BIG ROCK POINT 1	21	21	11001	0	11	10	9	(89 )
BRAIDWOOD 1	27	26	196 1	1	12	12	11	
BRAIFHOOD 2	27	25	192 1	2	12	12	11	(91)
BROWNS FERRY 1	21	15	171 1	6	11	11	9	
BROWNS FERRY 2	21	19	[90]	2	11	11	10	(81)
BROWNS FERRY 3	21	14	166 1	7	11	11	9	[90]
BRUNSWICK 1	19	19	[100]	0	11	11		[81]
BRUNSWICK 2	19	19	(100)	0	11	11	10	(90)
BYRON 1	27	27	11001	0	12		10	[90]
BYRON 2	27	27	(100)		12	12	11	(91)
CALLAWAY I	26	26	(100)	0	12	12	11	(91)
CALVERT CLIFFS 1	23	19	182 1		12	12	11	(91)
CALVERT CLIFFS 2	23	18	178 1			12	11	191 1
CATAWBA 1	27	25	192	2	12	12	11	(91)
CATAWBA 2	27	25	192 1		12	12	11	(91)
CLINTON 1	21	21	11001	2	12	12	11	(9) 1
COMANCHE PEAK 1	26	26	(100)	0	11	11	10	(90)
COMANCHE PEAK 2	26	26	(100)	0	12	11	11	(100)
COOK 1	25	22	187	0	12	11	8	[72]
COOK 2	25	22	187	2	12	12	11	(91)
COOPER STATION	21	20	195		12	12	11	(91)
CR'STAL RIVER 3	27	22	(81 )	2	11		3	175 1
DAV. S-BESSE 1	26	26	(100)	3	12	12	11	(91)
DIA3_D CANYON I	26	26		0	12	12	10	183 1
DIABLE CANYON 2	26	26	11001	0	12	12	3.1	191 1
DRESDEN 2	20	19	(100)	0	12	12	11	191 1
DRESDEN 3	20	18	(94 )	1	11	11	9	(81 )
DUANE ARNOLD	21	21	(89)	2	11	11	9	(81)
FARLEY 1	28	25	(100)	0	11	11	10	190 1
FARLEY 2	26	25	(96 )		12	12	11	[91]
FERMI 2	21		196 1	1	12	12	11	191 1
FITZPATRICK	21	20	195 1		11	11	9	181 1
FORT CALHOUR 1	25	21	(100)	0	11	11	10	(90 )
GINNA	26	22	(87)	3	12	9		188 1
GRAND GULF 1	21	22	(84)	4	12	12	11	[91]
HADDAM NECK		20	(95)	1	11	11	9	181 1
HARRIS 1	26	22	[84]	4	12	12	11	(91 )
HATCH I	27	27	[100]	0	12	12	11	191 1
HATCH 2	21	20	195 )	1	11	11	10	190 1
HOPE CREEK !	21	20	195 1	1	11	11	10	(90 )
mer conten i	22	22	(100)	0	11	4	3	175 1
								4

Table 4.5

#### STATUS OF GSIS - SUMMARY BY PLANT

		NTATION		VERIFICATION				
UNIT	ITEMS APPLICABLE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	COVERED	ITEMS REQUIRED	TTEMS COMPLETED	PER CENT COMPLETED
INDIAN POINT 2	25	22	(87)	3	12	12	11	(91)
INDIAN POINT 3	26	24	(92)	2	12	12	11	(91)
KEWAUNEE	25	22	187 )	3	12	12	11	(91)
LASALLE 1	22	21	195 )	1	11	11	9	(81)
LASALLE 2	22	21	195 1	1	11	11	9	(81)
LIMERICK 1	20	20	[100]	0	11	4	3	(75 )
LIMERICK 2	20	20	(100)	0	11	4	3	(75)
MAINE YANKEE	24	22	191 1	2	12	12	11	(91)
MCGUIRE 1	26	22	(84 )	4	12	12	11	(91)
MCGUIRE 2	26	22	184 1	4	12	12	11	(91)
MILLSTONE 1	21	18	185 1	3	11	11	10	[90]
	24	22	(91)	2	12	12	1.1	(91)
MILLSTONE 2	27	24	(88 )	3	12	4	3	(75 )
MILLSTONE 3	20	20	11001	0	11	11	10	(90 )
MONTICELLO	22	21	195 1		11	1.1	10	[90]
NINE MILE POINT 1	22	21	195 1		11		3	175 1
NINE MILE POINT 2	26	24	192 1	2	12	12	11	(91 )
NORTH ANNA 1	26	24	192 1	2	12	12	11	(91)
NORTH ANNA 2	26	25	196 1		12	12	10	(83 )
OCONEE 1	26	25	196 1		12	12	10	(83)
OCONEE 2	26	25	196	1	12	12	10	[83]
OCONEE 3	22	20	190 1	2	11	11	10	190 )
OYSTER CREEK 1	24	22	191 1	2	12	12	10	183 1
PALISADES	23	23	(100)	n	12	12	11	[91]
PALO VERDE 1	23	22	(95 )	1	12	12	11	(91)
PALO VERDE Z	23	23	(100)	0	12	12	11	191 1
PALO VERDE 3	21	21	(100)	9	11	11	10	190 1
PEACH BOTTOM 2	21	21	(100)	0	11	11	10	190 1
PEACH BOTTOM 3	22	20	190 1	2	11	11	10	190 1
PERRY 1	21	21	(100)	0	11	11	10	190 1
PILGRIM 1		23	(91)	3	12	12	10	[83]
POINT BEACH 1	25	23	191	2	12	12	10	183
POINT BEACH ?	25	26	11001	0	12	12	11	(91 )
PRAIRIE ISLAND 1	26	26	(100)		12	12	11	191 1
PRAIRIE ISLAND 2	26	19	190 1	2	ii	11	9	[81]
QUAD CITIES I	21	18	(85)	2	11	îi	q	181 1
QUAD CITIES 2	21			3	10	***	2	(66.)
RIVER BEND 1	20	20	(100)	0	12	12	11	191 1
ROBINSON 2	26	24	(92 )	2	12	12	ii	(91 )
SALEM 1	26	24	(92)	2	12	12	11	191 1
SALEM 2	26	24	192 1		12	12	11	191 1
SAN ONOFRE 2	24	23	(95)	1			11	(91 1
SAN ONOFRE 3	24	23	(95)	1	12	12	11	(91 )
SEABROOK 1	27	27	(100)	0	12	12	10	(83 )
SEQUOYAH 1	27	27	(100)	0	12	12	10	100 1

Table 4.5

## 99

#### SAFETY ISSUE MANAGEMENT SYSTEM

#### STATUS OF GSIS - SUMMARY BY PLANT

	IMPLEMENTATION				VERIFICATION			
UNIT	ITEMS ITEMS APPLICABLE COMPLETE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	TTEMS COVERED	ITEMS REQUIRED	ITEMS COMPLETED	PER CENT COMPLETED
SEQUOYAH 2 SOUTH TEXAS 1 SOUTH TEXAS 2 ST LUCIE 1 ST LUCIE 1 ST LUCIE 2 SUMMER 1 SURRY 1 SURRY 2 SUSQUEHANNA 2 THREE MILE ISLAND 1 TURKEY POINT 3 TURKEY POINT 3 TURKEY POINT 4 VERMONT YANKEE 1 VOGTLE 2 WASHINGTON NUCLEAR 2 WATERFORD 3 WOLF CREEK 1 ZION 1 ZION 2	27727456660005552772271372266	274424434400533177136222	(100) (88) (88) (95) (88) (92) (100)	033111322000220000000000000000000000000	12 12 12 12 12 12 12 12 11 11 12 12 12 1	122 122 1122 1122 1122 1122 1122 1122		3431111111100011100110011100111001110001110000
TOTALS / AVERAGES	2621	.463	94	158	1270	1176	1045	88

## 4.4 Status by Issue

Table 4.6 summarizes the status of imple neritation and verification of each GSI and sub-issue. For each issue, the table shows the number of applicable plants, the number and percentage of plants that have completed implementation, and the number of plants remaining to complete implementation. For those issues requiring verification of corrective actions, the table shows the number of plants covered by a TI, the number of plants requiring verification, and the number and percentage of plants that have completed verification.

Of the 34 GSIs and sub-issues, 19 have been fully implemented. Five issues remain to be implemented at only one plant each and 5 more issues remain to be implemented at two or three plants each. The 5 issues discussed in Section 4.1 of this report account for 142 (90 percent) of the 158 items remaining to be implemented.

#### STATUS OF GSIS - SUMMARY BY ITEM

AFPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS	PLANTS COMPLETED	PER CENT COMPLETED
33	31	193 1	TEM 2	NO			********	
GE VOLUME SYSTEMS	36	(97 )	-1	YES	37	37	36	[97]
	74	(67 )	35	YES	109	108	94	(0/-)
	27	[40]	39	NO				
RIP REVIEW; PROGR	AM DESCRIPTIO	(100) N & PROCEDURES	0	NO				
109 ENT CLASSIFICATIO	109 N & VENDOR IN	(100) ITERFACE - RTS	COMPONENT	AE2	109	23	96	(100)
2 -POST MAINTENA	NCE TEST PROC	(100) EDURES & VENDO	OR RECOMM.	YES	109	97	97	(100)
MAINTENANCE TEST	109 ING - CHANGES	TO TECH SPECS	- RTS CO	YES	109	97	97	(100)
TRIP SYSTEM REL	IABILITY - VE	NDOR RELATED M	0	YES	72	72	71	(98 )
2 -PREVENTATIVE	72 MAINT PROG FO	(100) R REACTOR TRIP	BREAKERS	YES	72	66	66	[100]
IC ACTUATION OF	SHUNT TRIP AT	(100) TACH FOR WEST	& B&W 0	NO				
	106	[97]	3	NO				
	109	(100)	0	YES	109	97	97	(100)
	109 NENTS	(100)	0	YES	109	97	97	(100)
	109	(100)		YES	109	97	97	(100)
	AFPLICABLE  33 SSOCIATED WITH PI  37 GE VOLUME SYSTEMS  MONITORING  86 LVE RELIABILITY  109 ENT CLASSIFICATIO 2 -POST MAINTENA  109 MAINTENANCE TEST  72 TRIP SYSTEM REL  2 -PREVENTATIVE 1  109 A CAPABILITY  109 COMPONENTS  3 2 2 S-R COMPONENTS  109 3 2 2 S-R COMPONENTS	PLANTS AFPLICABLE COMPLETED  33 31  SSOCIATED WITH PIPE BREAKS IN  37 36  GE VOLUME SYSTEMS  MONITORING  LVE RELIABILITY  RIP REVIEW; PROGRAM DESCRIPTION  109 ENT CLASSIFICATION & VENDOR IN  2 -POST MAINTENANCE TEST PROC  MAINTENANCE TESTING - CHANGES  109 MAINTENANCE TESTING - CHANGES  109 TO TO THE SYSTEM RELIABILITY - VE  2 -PREVENTATIVE MAINT PROG FOR TO THE STATE AT THE STAT	PLANTS AFPLICABLE COMPLETED COMPLETED COMPLETED  33 SSOCIATED WITH PIPE BREAKS IN BWR SCRAM SYST  GE VOLUME SYSTEMS  109 MONITORING  109 T4  109 MONITORING  109 T4  109 T4  109 T4  109 T4  109 T4  100 T4  T5 T1  T1  T1  T1  T1  T1  T1  T1  T1	PLANTS AFPLICABLE COMPLETED COMPLETED COMPLETED REMAINING  33 31 31 31 32 31 31 32 31 31 31 32 32 33 31 31 31 32 31 32 32 33 34 35 36 37 36 37 36 37 37 36 37 37 38 38 39 40 40 40 40 40 40 40 40 40 40 40 40 40	PLANTS AFPLICABLE COMPLETED COMPLETED REMAINING REQUIRED  SSDCIATED WITH PIPE BREAKS IN BWR SCRAM SYSTEM  GE VOLUME SYSTEMS  109 MONITORING  109 MONITORING  109 AT 109 MONITORING  109 AND  109 AND  109 MONITORING  109 ACAPABILITY  PLANTS AFPLICABLE COMPLETED REMAINING  PER CENT REMAINING REQUIRED  PROBLEM REMAINING  109 AT	PLANTS AFPLICABLE COMPLETED REMAINING REQUIRED COVERED COVERD COVERED COVERD COVERED COVERD COVERD COVERD COVERD COVERD COVERD COVERD COVERD COVERED COVERD COVERD COVERD COVERD COVERD COVERD COVERD COVERD COVERED COVERD COVER	PLANTS APPLICABLE COMPLETED COMPLETED REMAINING REQUIRED COVERED REQUIRED  33 31 (93) 2 NO  SSOCIATED WITH PIPE BREAKS IN BWR SCRAM SYSTEM  36 (97) 1 YES 37 37  GE VOLUME SYSTEMS  36 (97) 1 YES 37 37  GE VOLUME SYSTEMS  36 (97) 35 YES 109 108  MONITORING 74 (67) 35 YES 109 108  LVE RELIABILITY  109 109 (100) 0 NO  RIP REVIEW: PROGRAM DESCRIPTION & PROCEDURES  ENT CLASSIFICATION & VENDOR INTERFACE - RTS COMPONENT  109 109 109 (100) YES 109 97  MAINTENANCE TEST ING - CHANGES TO TECH SPECS - RTS CO  TRIP SYSTEM RELIABILITY - VENDOR FRELATED MODS  2 -PREVENTATIVE MAINT PROG FOR REACTOR TRIP BREAKERS  109 109 109 (100) NO  A CAPABILITY  COMPONENTS  109 109 109 (100) 0 YES 109 97  A CAPABILITY  COMPONENTS  109 109 109 (100) 0 YES 109 97  3.2 Z S-R COMPONENTS  109 109 109 (100) 0 YES 109 97  109 109 109 (100) 0 YES 109 97  109 109 109 (100) 0 YES 109 97	PLANTS APPLICABLE COMPLETED COMPLETED REMAINING REQUIRED COVERED REQUIRED COMPLETED COMPLETED REMAINING REQUIRED COVERED COMPLETED COMPL

#### STATUS OF GSIs - SUMMARY BY ITEM

		IMPLEMEN					VERIFICATIO	N	
ITEM	PLANTS APPLICABLE	PLANTS	PER CENT COMPLETED	PLANTS REMAINING		PLANTS	PLANTS	PLANTS COMPLETED	PER CENT
75 (8090) SALEM ATWS 4 3 W	AND BAW T.S.	56	(98 )	1	NO NO				
75 (8091) SALEM ATWS 4.4 88	SW TEST PROCEDUR		(85 )	1	NO				
75 (8092) SALEM ATWS 4 5.1	DIVERSE TRIP FE	109 ATURES	[100]	ð	YES	109	97	97	(100)
75 (8093) SALEM ATWS 4.5.2			(98)	2	NO NO				
86 LONG RANGE PLAN E	DEALING WITH STR	36 ESS CORROSION (	(100) CRACKING IN BW	R PIPING	YES	36	36	34	(94 )
94 ADDITIONAL LOW-TE		E PROTECTION FO		36	NO				
124 AUXILIARY FEEDWA			(83 )	1	NO				
A-16 STEAM EFFECTS ON			(100)	0	NO				
B-10 BEHAVIOR OF BWR F	MARK III CONTAIN	MENTS 4	(100)	0	NO				
B-36 DEV DESIGN, TEST &	S MAINT CRITERIA	FOR ATM CLEANS	UP SYS AIR FIL	TER & ADSO	NO				
GL-85-014 LWR PRIMARY COOLA				1	NO				
GL-80-099 TECHNICAL SPECIF	ICATION REVISION	FOR SNUBBER ST	(100) URVEILLANCE	0	NO				
GL-84-13 TECHNICAL SPECIF	ICATION FOR SNUB	BERS 95	(100)	0	NO				
GL-88-14 INSTRUMENT AIR SE	UPPLY SYSTEM PROI	BLEMS AFFECTING	SAFETY-RELATI	ED EQUIPM	NO				
GL-88-03 RESOLUTION OF GEN	NERIC SAFETY ISS	UE 93. "STEAM !	(100) BINDING OF AUX	ILIARY FEE	NO				

Table 4.6

#### STATUS OF GSIS - SUMMARY BY ITEM

		IMPLEME	NTATION				VERIFICATIO	N	
ITEM GL-88-17 LOSS OF DECAY HEAT	PLANTS APPLICABLE 72 REMOVAL	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING 2	REQUIRED	PLANTS COVERED 72	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
GL-89-13 SERVICE WATER SYSTE	109	89 ECTING SAFETY	RELATED EQUIPME	20 ENT	YES	109	107	0	(0 )
GL-90-03 RELAXATION OF STAFF	POS IN GEN LE	109 TTER 83-28, I	(100) YEM 2 2 PART 2	0	NO				
MPA-8023 DEGRADED GRED VOLTA	109 GF	107	(98 )	2	NO				

#### 4.5 Conclusions

After detailed review of the implementation and verification status of the resolution of GSIs and sub-issues, the NRC staff has concluded the following:

- The NRC closure process for GSIs is adequate to protect the public health and safety.
- Licensees are making significant progress toward implementing GSI-related actions requested by the staff, and the framework exists to oversee future implementation of delayed items.
- Significant progress has been made in verifying the completion of implementation actions associated with those GSIs that have been resolved.
- The overall status of the 5 largely unimplemented GSIs is generally acceptable because of the relatively recent issuance of staff positions on three of the GSIs, and projected implementation schedules for the remaining 2.

#### 5 OTHER MULTIPLANT ACTIONS

This section presents the overall status of implementation and verification of other MPAs not related to TMI Action Plan requirements, USIs, or GSIs. The MPAs are applicable to the 109 licensed plants. Because each MPA may be tracked under different designations, Table 5.1 cross-references the MPA number and the SIMS number used in the tables and appendices of this report.

## 5.1 Implementation Status

Licensees achieve implementation of MPA items either by incorporating corrections into the plant design before licensing or by making the modifications necessary to meet the requested, required or voluntary actions at licensed plants. The information presented here includes all MPA items related to the 109 licensed plants considered in this report.

Approximately 87 percent of the MPA items have been implemented at licensed plants. Of the 7,517 applicable items, 6,576 have been completed and 941 remain open from an implementation standpoint. On average, each plant has less than 9 remaining items to implement. No plant has more than 12 remaining items except Browns Ferry Units 1 and 3. Each unit has 20 items. Figure 5.1 presents the overall status of, and progress on, MPAs. Of the 109 licensed plants, none have fully implemented all applicable MPAs. Table 5.2 lists the number of unimplemented MPA items by plant and projected implementation dates. Appendix D lists the unimplemented MPA items by issue and projected implementation dates. MPAs are of a dynamic nature. New MPAs can and will be added as the situation dictates during coming years.

MPAs BL-88-11, BL-92-01, BL-93-02, BL-93-03, GL-88-20, GL-89-10, GL-92-01, GL-92-08, GL-93-04, MPA-B118, and MPA-B122 account for 85 percent of the 941 unimplemented items. Figure 5.2 summarizes the implementation status of these issues. A brief description of these 11 MPAs follows:

# RL-88-11 Pressurizer Surge Line Thermal Stratification (X811)

The NRC issued IN 88-80, "Unexpected Piping Movement Attributed to Thermal Stratification," on October 7, 1988, to alert licensees of PWRs of the phenomenon. The NRC further issued BL 88-11, "Pressurizer Surge Line Thermal Stratification," on December 20, 1988, describing a series of short- and long-term actions to oddress the problem.

Licensees of operating PWRs were required to (1) perform a visual inspection of the surge line at the test available cold shutdown (of greater than 7 days duration) after issuance of the bulletin and (2) perform an analysis that demonstrated that the surge line met applicable design codes and other FSAR and regulatory commitments for the licensed life of the plant. If the analysis did not show

# SIMS Issue Numbers and Corresponding MPA Numbers

BL-88-08 X808 Thermal Stress in Piping BL-88-11 X811 Thermal Stratification in PZR Surge Line (BL 88-11) BL-92-01 X201 Shermal Lagging 330 (BL 92-01) BL-93-02 X302 Debris Plugging of Emergency Core Cooling Suction Strainers BL-93-03 X303 Reactor Vessel Water level Instrumentation in BWRs GL-84-09 A019 Recombiner Capability BWP Mark I GL-87-09 D024 Mode Changes & LCO's - rech Specs 3.0.4 and 4.0.4 (GL 87-09) GL-88-01 B097 IGSCC Problems in BWR Piping GL-88-11 A023 R.G. 1.99 Rev 2 (pressurized Thermal Shock Rule) (GL 88-11) GL-88-20 B111 Individual Plant Evaluations (GL 88-20) GL-89-01 D025 Relocate RETS to Admin Section of Tech Specs	
BL-88-11 X811 Thermal Stratification in PZR Surge Line (BL 88-11) BL-92-01 X201 Shermal Lagging 330 (BL 92-01) BL-93-02 X302 Debris Plugging of Emergency Core Cooling Suction Strainers BL-93-03 X303 Reactor Vessel Water level Instrumentation in BWRs GL-84-09 A019 Recombiner Capability BWP Mark I GL-87-09 D024 Mode Changes & LCO's - rech Specs 3.0.4 and 4.0.4 (GL 87-09) GL-88-01 B097 IGSCC Problems in BWR Piping GL-88-11 A023 R.G. 1.99 Rev 2 (pressurized Thermal Shock Rule) (GL 88-11) GL-88-20 B111 Individual Plant Evaluations (GL 88-20)	
BL-92-01 X201 Thermal Lagging 330 (BL 92-01) BL-93-02 X302 Debris Plugging of Emergency Core Cooling Suction Strainers BL-93-03 X303 Reactor Vessel Water level Instrumentation in BWRs GL-84-09 A019 Recombiner Capability BWP Mark I GL-87-09 D024 Mode Changes & LCO's - recit Specs 3.0.4 and 4.0.4 (GL 87-09) GL-88-01 B097 IGSCC Problems in BWR Piping GL-88-11 A023 R.G. 1.99 Rev 2 (pressurized Thermal Shock Rule) (GL 88-11) GL-88-20 B111 Individual Plant Evaluations (GL 88-20)	
BL-93-02 X302 Debris Plugging of Emergency Core Cooling Suction Strainers BL-93-03 X303 Reactor Vessel Water level Instrumentation in BWRs GL-84-09 A019 Recombiner Capability BWP Mark I GL-87-09 D024 Mode Changes & LCO's - reci Specs 3.0.4 and 4.0.4 (GL 87-09) GL-88-01 B097 IGSCC Problems in BWR Piping GL-88-11 A023 R.G. 1.99 Rev 2 (pressurized Thermal Shock Rule) (GL 88-11) GL-88-20 B111 Individual Plant Evaluations (GL 88-20)	
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GL-87-09 D024 Mode Changes & LCO's - rec: Specs 3.0.4 and 4.0.4 (GL 87-09) GL-88-01 B097 IGSCC Problems in BWR Piping GL-88-11 A023 R.G. 1.99 Rev 2 (pressurized Thermal Shock Rule) (GL 88-11) GL-88-20 B111 Individual Plant Evaluations (GL 88-20)	
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GL-88-20 B111 Individual Plant Evaluations (GL 88-20)	
GL-89-04 A025 IST Reviews and Schedules (GL 89-04)	
GL-89-06 F072 Safety Parameter Display System - Response to GL 89-02	
GL-89-10 B110 Motor Operated Valve Testing and Surveillance (GL 89-10)	
GL-89-16 B112 Installation of Hardened Wetwell Vent (GL 89-16)	
GL-91-08 D030 Removal of Component Lists from Tech Specs (GL 91-08)	
GL-91-11 L111 Vital Instruments Buses and Tie Breakers (Ci-48,49)	
GL-92-01 B120 Reactor Vessel Structural Integrity	
GL-92-04 B121 BWR Water Level Instrumentation	
GL-92-08 L208 Thermo-Lag 330-1 Fire Barriers	
GL-93-04 L304 Rod Control System Failure and Withdrawal of Rod Control Cluster Ass	semblies
MPA-B116 B116 Consider Results of Sciensored Motor-operated Tests (GL 89-10, Supp	
MPA-B117 B117 Failure of Westinghouse SG Tube Mechanical Plugs (Bl. 90-01, Supp 2	
MPA-B118 B118 IPE External Everals (GL 88-20, Supp 4)	
MPA-B122 B122 Loss of Fill-Oil in Transmitters Manufactured by Rosemount (BL-90-01)	

# Summary of Unimplemented MPA Items by Plant

PLANT	Items Remaining	PLANT	Items Remaining	PLANT	Items Remaining
- FART		FLANT		FLANI	
Arkansas 1	8	Ginna	12	Pilgrim 1	7
Arkansas 2	8	Grand Gulf 1	8	Point Beach 1	9
Beaver Valley 1	10	Haddam Neck	6	Point Beach 2	9
Beaver Valley 2	10	Harris 1	9	Prairie Island 1	9
Big Rock Point 1	6	Hatch 1	12	Prairie Island 2	9
Braidwood 1	11	Hatch 2	12	Quad Cities 1	9
Braidwood 2	12	Hope Creek 1	7	-Quad Cities 2	9
Browns Ferry 1	20	Indian Pt 2	8	River Bend 1	7
Browns Ferry 2	10	Indian Pt 3	6	Robinson 2	8
Browns Ferry 3	20	Kewaunee	8	Salem 1	10
Brunswick 1	9	LaSalle 1	11	Salem 2	9
Brunswick 2	9	LaSalle 2	12	San Onofre 2	10
Byron 1	11	Limerick 1	8	San Onofre 3	11
Byran 2	11	Limerick 2	9	Seabrook 1	5
Callaway 1	10	Maine Yankee	7	Sequoyah 1	7
Calvert Cliffs 1	5	McGuire 1	9	Sequoyah 2	8
Calvert Cliffs 2	6	McGuire 2	9	South Texas 1	8
Catawba !	7	Millstone 1	8	South Texas 2	7
Catawba 2	7	Milistone 2	6	St. Lucie 1	7
Clinton 1	8	Millstone 3	7	St. Lucie 2	7
Comanche Peak 1	8	Monticello	6	Summer 1	7
Comanche Peak 2	3	Nine Mile Pt 1	10	Surry 1	8
Cook 1	11	Nine Mile Pt 2	8	Surry 2	8
Cook 2	9	North Anna 1	9	Susquehanna 1	11
Cooper Station	7	North Anna 2	9	Susquehanna 2	11
Crystal River 3	8	Oconee 1	7	Three Mile Island 1	8
Davis-Besse 1	8	Ocor 2	7	Turkey Pt 3	7
Diablo Canyon 1	6	Oconee 3	7	Turkey Pt 4	6
Diablo Canyon 2	6	Oyster Creek 1	8	Vermont Yankee 1	12
Dresden 2	8	Palisades	9	Vogtle 1	9
Dresden 3	8	Palo Verde 1	11	Vogtle 2	9
Duane Arnold	7	Palo Verde 2	10	Washington Nuclear 2	8
Farley 1	8	Palo Verde 3	11	Waterford 3	8
Farley 2	8	Peach Bottom 2	10	Wolf Creek 1	8
Fermi 2	9	Peach Bottom 3	11	Zion 1	8
Fitzpatrick	5	Perry 1	11	Zion 2	8
Ft Calboun 1	5				

# Other MPA Issues Implementation Status at Licensed Plants

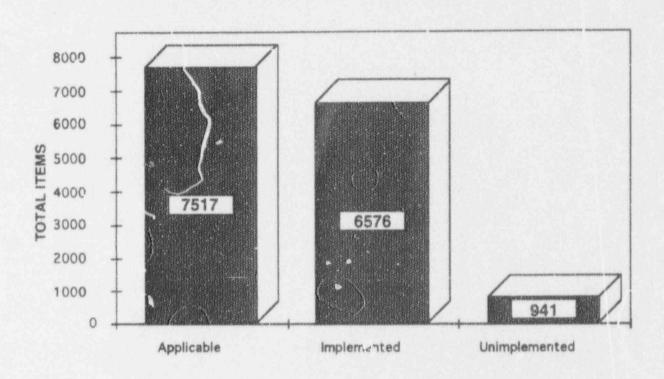
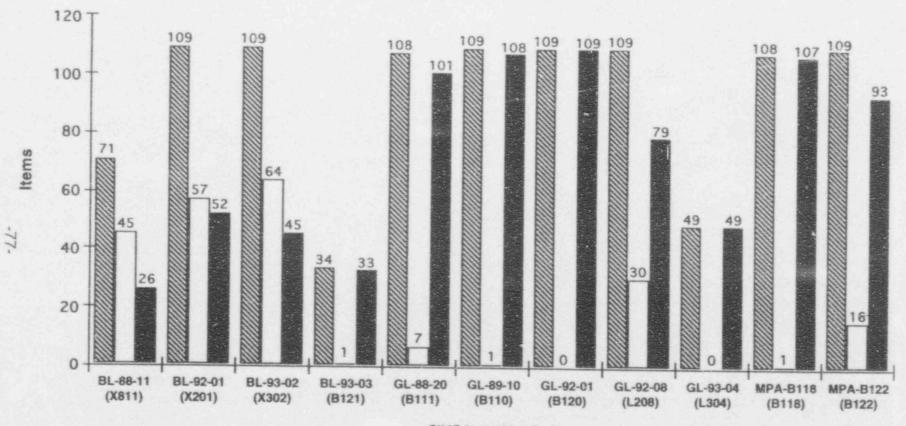


Figure 5.1

# Summary of Eleven Unimplemented MPAs



SIMS Item Number

Legend

M Applicable Plants

☐ Implemented Plants

Unimplemented Plants

Figure 5.2

compliance with the applicable codes, licensees were required to obtain plant specific data on thermal stratification, striping and line deflection.

Most PWR licensees coordinated their efforts through their respective owners groups. For Westinghouse plants, the issue is closed for all except six units. These six units require minor modifications that will ensure surge line stresses remain acceptable for the design life of the plant.

The staff resolved open items regarding the CE Owners Group analysis and issued a Safety Evaluation in June 1993. The staff also resolved open items regarding the B&W Owners Group analysis and issued a Safety Evaluation in September 1993. CE and B&W licensees must confirm the applicability of the respective owners group analysis to their plants.

# BL-92-01 Failure of Thermo-Lag 330 Fire Barrier System (X201)

On June 24, 1992, the NRC issued BL 92-01, "Failure of Thermo-Lag 330 Fire Barrier System to Maintain Cabling in Wide Cable Trays and Small Conduits Free From Fire Damage."

TU Electric and the NRC sponsored additional testing of Thermo-Lag 330 materials. As a result of failures in these tests, BL 92-01, Supplement 1, was issued on August 28, 1992, to extend the scope of the original bulletin by requesting licensees to (1) identify the areas of the plant that use this material for protection and separation of safe shutdown capability, (2) implement propriate compensatory measures for an inoperable barrier, and (3) verify that the requested actions have been taken and describe the measures being taken to ensure operability.

The responses to BL 92-01 indicate that 83 operating plants have Thermo-Lag fire barrier material installed and appropriate compensatory measures have been implemented. The staff is reviewing responses to Supplement 1 as they are received. An action plan has been developed to address the concerns identified by the special review team.

# BL-93-02 Debris Plugging of Emergency Core Cooling Suction Strainers (X302)

This issue arose when a recent experience demonstrated that the capability of the emergency core cooling system (ECCS) to perform its intended function is less than expected. While Perry 1 was shut down in January 1993, the licensee discovered that two ECCS strainers were clogged with particulates and deformed by hydraulic forces. After taking corrective action, and while testing the strainers, the licensee discovered that a strainer was again clogged. Fiberglass from air filters in the drywell and iron corrosion products were clogging the strainers. The strainers clogged with fibrous material act as filters; progressively they filter out finer material and develop larger pressure drops than previously anticipated.

Clogging of the strainers can lead to loss of net positive suction head (NPSH), cavitation of the ECCS pumps, and loss of the ECCS. Failure of the ECCS to perform its intended function can cause failure of fuel cladding and the containment and a release of radiounuclides to the environment.

On May 11, 1993, the NRC issued NRC Bulletin 93-02, "Debris Plugging of Emergency Core Cooling Suction Strainers." The bulletin discussed several instances in which ECCS suction was blocked because fibrous material clogged the strainer. All operating reactor licensees were requested to identify fibrous air filters or other temporary sources of fibrous material, not designed to withstand a LOCA, that are installed or stored in the primary containment, take prompt action to remove any such material, and take any immediate compensatory measure that may be required to ensure the functional capability of the ECCS. Licensees were required to provide a written response stating if the actions requested have been or will be performed, the locations and quantity of any identified material, and any immediate compensatory measures taken. Reports on the completion of the requested actions and justification for any deviations from the requested actions also were required.

The responses to BL 93-02 indicate that approximately 75 percent of the licensees do not need, or had already performed, any necessary corrective actions. For the remainder of the licensees whose responses did not provide sufficient information or who took exception to the actions requested in the bulletin, the staff will review further. The issue should be resolved for all facilities within 1 year of the date of the bulletin.

### BL-93-03/GL-92-04 Reactor Vessel Water Level Instrumentation in BWRs (B121/X303)

The staff issued GL 92-04, "Resolution on the Issues Related to Reactor Vessel Water Level Instrumentation in BWRs Pursuant to 10 CFR 50.54(f)" on August 19, 1992, to alert licensees of BWRs to errors related to instrumentation accuracy in water level instrumentation and to the results of the staff's review of the BWROG's generic analysis of these errors. The staff also requested addressees to (1) determine the impact of these errors on automatic safety system response, operator short- and long-term actions, and emergency operating procedures at their facilities; (2) take short- and long-term corrective actions; and (3) submit a report that includes the results of their determinations, a discussion of their short- and long-term actions, and the schedule for completion of their long-term programs.

All addressees responded by September 28, 1992. Most licensees requested deferral of the long-term corrective actions to allow BWROG to complete testing and analysis of the BWR water level instrumentation. The staff accepted delays in the implementation of long-term corrective actions pending BWROG development of plant and/or procedure modifications by July 1993.

Following an event at the WNP-2 plant in January 1993, additional analyses by the BWROG revealed additional safety concerns related to RPV water level instrumentation at low pressures following normal depressurizations. This led the staff to issue NRC Bulletin 93-03 on May 28, 1993, requesting additional actions by the addressees. These actions were to (1) provide additional procedures and training to address the new concerns and (2) implement, at the first cold shutdown after July 30, 1993, hardware modifications to ensure high functional reliability of the RPV water level instrumentation for long-term operation. Addressees have provided their responses, and the NRC is reassessing implementation schedules based on preventing undue hardship or adverse consequences.

Temporary Instruction 2515/119 was issued on March 31, 1993, to verify licensee implementation of operator guidance and training to ensure required operator actions concerning reactor water level following rapid depressurization transients.

# GL-88-20 Individual Plant Examination for Severe Accident Vulnerability 10 CFR 50.54(F) (B111)

The NRC issued GL 88-20, "Individual Plant Examination for Severe Accident Vulnerability," on November 23, 1988 to request addressees to perform an individual plant examination (IPE) of their plant-specific internal event severe accidents and report the results of their analysis.

The NRC issued Supplement 1 to GL 88-20, "Initiation of the Individual Plant Examination for Severe Accident Vulnerabilities - 10 CFR 50.54," on August 29, 1989 requiring licensees to submit an IPE to identify plant-specific severe accident vulnerabilities using probabilistic risk analysis methodology.

The IPE effort is more complex than estimated. Licensees have delayed submittal of several IPEs from 2 to 18 months. The staff has issued seven evaluation reports documenting the results of the Step 1 review for Seabrook, Turkey Point 3/4, Oconee 1 2/3, Surry 1/2, Beaver Valley 2, Diablo Canyon 1/2, and Millstone 3 IPEs. The following three plants have been selected to date for Step 2 IPE reviews: Turkey Point 3 and 4 and Fitzpatrick.

With the exception of Browns Ferry 1 and 3 (which are shutdown), all IPE reports are scheduled for submittal by June 1994, the scheduled date for Braidwood 1 and 2. Staff closure is estimated to occur by the end of 1995.

# GL-89-10 Safety Related Motor-Operated Valve Testing and Surveillance (B110)

NRC staff issued GL 89-10 to inform licensees of problems concerning the operability of safety-related motor-operated valves, and request addressees to (1) establish programs to demonstrate the operability of these valves and to ensure continued operability over the life of the plant, (2) provide a commitment to establish such a program and complete the demonstration of operability within the

timeframe specified in GL 89-10, and (3) report completion of the demonstration phase of their programs. The subject matter of this generic letter is related to that of BL 85-03, "Motor-Operated Valve Common Mode Failures During Plant Transient Due to Improper Switch Setting," and its supplements.

Supplements 1 through 4 of GL 89-10 were addressed in Supplement 2 of NUREG 1435. Since then, Supplement 5, "Inaccuracy of Motor-Operated Valve Diagnostic Equipment," was issued on June 28, 1993, to request licensees to reexamine their MOV programs in light of new information on MOV diagnostic equipment inaccuracies and to identify measures taken or planned to account for uncertainties in valve thrust. Licensees are also to determine the schedule necessary to satisfy this supplement.

## GL-92-01 Reactor Vessel Structural Integrity (B120)

NRC issued GL 92-01, "Reactor Vessel Structural Integrity," on February 28, 1992. Revision 1 was issued on March 6, 1992. The background section concerning NRC's assessment of embrittlement in the Yankee Rowe reactor vessel was updated by Revision 1 to better reflect the licensee's extensive technical efforts regarding reactor vessel integrity. The information was requested within 120 days from issuance of GL 92-01, Revision 1. All licensees have responded.

GL 92-01 is part of the staff's continuing program to evaluate reactor vessel integrity. The information provided will be issued to confirm that all licensees are complying with the requirements of 10 CFR 50.60 and 50.61 and Appendices G and H to 10 CFR Part 50 and are fulfilling the requirements of GL 88-11, "NRC Position On Radiation Embrittlement of Reactor Vessel Materials and Its Impact On Plant Operations."

A status paper (SECY-93-048) dated February 25, 1993, provided the results of the staff's initial screening of GL 92-01. Many requests for additional information have been issued to resolve discrepancies or inconsistencies in the licensees responses. All issues related to the methodology used to determine compliance with Appendix G to 10 CFR Part 50 will be resolved or the review and approval of equivalent margin analysis, as requested by licensees, will be performed. The staff also is reviewing the current values of reactor vessel material brittle-to-ductile transition temperature because of the information provided in response to the generic letter. An expanded reactor vessel materials data base is being developed on the basis of the detailed information provided in responses to the generic letter.

# GL-92-08 Thermo-Lag 330-1 Fire Barriers (L208)

On August 6, 1991, the NRC issued IN 91-47, "Failure of Thermo-Lag Fire Barrier Material to Pass Fire Endurance Test," which contained information on the fire endurance test performed by the Gulf State Utilities Company on Thermo-Lag 330 fire barrier system installed on wide aluminum cable trays and the associated

failures. On December 6, 1991, the NRC issued IN 91-79, "Deficiencies in The Procedures for Installing Thermo-Lag Fire Barrier Materials," which contained information on deficiencies in procedures that the vendor (Thermal Science, Inc.) supplied for installing Thermo-Lag Fire Barrier Material. Recognizing the concerns stated in INs 91-47 and 91-79 regarding the Thermo-Lag 330 fire barrier system, Texas Utilities (TU) Electric instituted a full-scale fire endurance testing program to qualify its Thermo-Lag 330 electrical raceway fire barrier systems for its Comanche Peak Steam Electric Station. The results of these tests have raised questions regarding the ability of the Thermo-Lag 330 fire barrier system to perform its specified function as a 1-hour fire barrier.

On June 23, 1992, the NRC issued IN 92-46, "Thermo-Lag Fire Barrier Material Special Review Team Final Report Findings, Current Fire Endurance Testing, and Ampacity Calculation Errors," in which it discussed the safety implications of these questions. On June 24, 1992, the NRC issued BL 92-01, "Failure of Thermo-Lag 330 Fire Barrier System To Maintain Cabling in Wide Cable Trays and Small Conduits Free From Fire Damage." TU Electric and the NRC sponsored additional testing of Thermo-Lag 330 materials. As a result of failures in these tests, BL 92-01, Supplement 1, was issued on August 28, 1992, to extend the scope of the original bulletin.

Following this action, on December 17, 1992, the NRC issued GL 92-08, which required the licensees to confirm (1) that the Thermo-Lag 330-1 barrier systems have been qualified by representative fire endurance tests, (2) that the ampacity derating factors have been derived by valid tests, and (3) that these qualified barriers have been installed with appropriate procedures and quality controls to ensure that they comply with the NRC's requirements.

In response to GL 92-08, most licensees have indicated that they await the results of the NUMARC tests of Thermo-Lag 330 fire barrier material. The NUMARC tests are scheduled to be completed in January 1994, at which time, licensees will develop their plan of action for the resolution of the Thermo-Lag 330 issue.

# GL-93-04 Rod Control System Failure and Withdrawal of Rod Control Cluster Assemblies, 10 CFR 50.54(f) (L304)

The NRC issued GL 93-04 on June 21, 1993, (1) to notify addressees about a single failure vulnerability within the Westinghouse solid-state rod control system that could cause an inadvertent withdrawal of control rods in a sequence resulting in a power distribution not considered in the design basis analyses and (2) to require that all action addressees provide the NRC with information describing their plant-specific findings related to this issue and actions taken. The GL was addressed to all holders of operating licenses or construction permits for Westinghouse-designed nuclear power reactors except Haddam Neck.

The GL requested licensees to assess within 45 days if their licensing basis is still satisfied with regard to single failure in the rod control system in light of the Salem event. If the licensing basis is not satisfied, the NRC requested licensees to provide an assessment of the impact and describe any compensatory short-term actions taken within 45 days and provide a plan and schedule for long-term resolution within 90 days. On July 26, 1993, the NRC granted relief to the schedules to extend the licensing basis assessment portion of the 45-day response to the 90-day response, in response to a request from the Westinghouse Owners Group.

All licensees have provided their 45-day response and these are under NRC staff review. The 90-day responses were due by September 19, 1993 and the staff is reviewing these responses.

# MPA-B118 <u>IPE External Events (GL-88-20, Supp 4) (B118)</u>

The staff issued Supplement 4 to GL 88-20 on June 28, 1991 to initiate the IPE process for external events. Five categories of external events were specified and licensees were required to submit to a schedule and methodology by December 26, 1991. Licensees were requested to submit the results of the individual plant examination of external events (IPEEE) within 3 years of the issuance date of Supplement 1 or no later than June 28, 1994. A copy of NUREG-1407, "Procedural and Submittal Guidance for the IPEEE for Severe Accident Vulnerabilities," was sent to each licensee with Supplement 4. All licensee responses to Supplement 4 with respect to schedules and methodology, have been received and reviewed independently and jointly by NRR and RES.

Supplement 1 to GL 87-02 was is sued on May 22, 1992, approving the seismic qualification utility group generic implementational procedure for USI A-46 implementation and starting the clock for both A-46 and the IPEEE. Following review of the licensees' responses to Supplement 4 to GL 88-20 (IPEEE), the NRC staff met to develop guidelines that would be used in determining whether a licensee's response would be considered acceptable. The NRC staff reported the results to the commission (SECY-92-130), and estimated a delay of approximately 1 year may be warranted. The guidelines reported to the Commission were that the IPEEE results must be submitted to the staff by June 1995 or within 3 years after issuance of the staff's evaluation approving the A-46 GIP, whichever occurs first. Therefore, since the evaluation was issued on May 22, 1992 with GL 87-02, Supplement 1, licensees were advised that the latest acceptable date for IPEEE submittal would be June 1995. A second round of licensee responses indicated that by the best effort by the industry will have the IPEF.Es for 72 plants submitted by the target date of June 1995 but for the remaining 38 plants, the submittal dates will range from September 1995 to July 1997.

There are a small number of plants that have unique problems requiring a more customized response (1) because the licensee proposed alternative methods or

failed to provide any method at all for its IPEEE or (2) because the licensee's plant was one of the eight singled out by the Eastern United States Seismic Hazards Program as needing further NRC staff evaluation.

# MPA-B122 Loss of Fill-Oil in Transmitters Manufactured by Rosemount (BL-90-01) (B122)

On April 21, 1989, the staff issued Information Notice 89-42, "Failure of Rosemount Models 1153 and 1154 Transmitters," to alert the industry of the loss of oil-fill problem. On March 9, 1990, the staff issued Bulletin 90-01, "Loss of Fill-Oil in Transmitters Manufactured by Rosemount," to request the licensees to promptly identify and to take appropriate corrective action for Model 1153, Series B, Model 1153, Series D, and Model 1154 transmitters that may have the potential for leaking fill-oii. From mid 1990 through 1992, the staff reviewed information from the (1) licensee responses to Bulletin 90-01, (2) data from related licensee event reports, (3) visits to the sites, (4) NUMARC Report 91-02, "Summary Report of NUMAC Activities to Address Oil Loss in Rosemount Transmitters," and (5) meetings with the industry. The staff found a relationship between operating pressure and timein-service that can be trended for use in identifying transmitters that are most likely to fail. The staff has concluded that (1) the requested actions in Bulletin 90-01 were insufficient in that they did not provide the desired high functional reliability and (2) a supplemental bulletin would be needed for ensuring appropriate licensee corrective action to the loss of fill-oil problem.

Subsequently, on December 22, 1992, the staff issued Bulletin 90-01, Supplement 1, "Loss of Fill-Oil in Transmitters Manufactured by Rosemount," to request new action from the licensees. Specifically, licensees were to provide information on specified models of the Rosemount transmitters manufactured before July 11, 1989, that are in use or may be used in the future. The information shall detail the use of the devices in either a safety-related system or a system governed by the NRC's ATWS (anticipated transient without scram) requirements where normal operating pressure is greater than 500 pounds per square inch. Requested corrective action includes the replacement of the suspect transmitter or the use of an enhanced surveillance monitoring program until the transmitter reaches the time-in-service pressure criterion recommended by the vendor.

Responses to the supplemental bulletin have been received from all applicable licensees and currently are under the staff review.

A brief description of other multiplant actions with more than three open items follows:

# BL-88-08 Thermal Stress in Piping Connected to RCS (X808)

Following a circumferential crack in an unisolable section of emergency core cooling piping at Farley 2, the NRC issued BL 88-08, "Thermal Stresses in Piping Connected to Reactor Coolant Systems," dated June 22, 1988. The Bulletin requested all licensees and applicants to take the following three actions: (1) review their reactor coolant systems (RCSs) to identify any connected unisolable piping that could be subjected to temperature distributions that could result in unacceptable thermal stresses, (2) examine unisolable piping sections for existing flaws, and (3) implement a program to provide continuing assurance that unisolable sections will not be subject to stresses that could cause fatigue failure.

In summary, BL 88-08 was closed for those BWRs and PWRs whose responses to action item 3 above were consistent with the stated modification or monitoring alternatives. However, some plants replied that assurance for certain lines would be provided by inspection alone, when conducted as part of their inservice inspection program. The licensee responses for these plants were unacceptable without further justification, because inservice inspection was not identified by BL 88-08 as an acceptable alternative. The basis for this position is that the fundamental precept of the actions of BL 88-08 is to prevent the initiation of cracks in piping. Inservice inspection is not a technique that prevents the initiation of cracks. Rather, inservice inspection identifies cracks after they appear, and then a safety significance determination is made and corrective action is proposed. The staff is reviewing the supplemental responses of licensees whose initial submittals contained insufficient information.

## GL-84-09 Recombiner Capability Requirements of 10 CFR 50.44 (C)(3)(II) (A019)

As a result of the TMI-2 accident, it became clear that the amount of hydrogen produced from the metal-water reaction was far in excess of that previously considered by the NRC staff during the licensing process. As a result, the staff revised 10 CFR 50.44, "Standards for Combustible Gas Control Systems," effective January 4, 1982 (46 FR 58484) to address this safety concern. For plants with Mark I and Mark II type containments, the staff determined that containment inerting (with nitrogen) and recombiner capability were sufficient measures to accommodate hydrogen from a 75-percent metal-water reaction without resulting in a burnable mixture. Certain licensees with Mark I containment took exception to the staff's position of providing recombiner capability because they believed the assumptions in NEDO-22155 were questionable. Therefore, using the models in NEDO-22155, they calculated that a typical Mark I design equipped with containment inerting was sufficient to preclude a burnable mixture resulting from a 75 percent metal-water reaction for the 30 days following an accident, both within the design-basis-accident (DBA) envelop and slightly beyond. The NRC staff concluded that, on balance, costs outweighed the benefits to address this limited situation. To reflect this position, the NRC issued GL 84-09, dated May 8, 1984.

GL 84-09 allowed licensees with Mark I type containments that rely on purge/repressurization systems as a means of hydrogen control, an option in lieu of installing recombiner capability if they met the following conditions: (1) the plant has technical specifications (limiting conditions for operation) requiring that the containment is less than 4-percent oxygen while inerted, (2) the plant has only nitrogen or recycled containment atmosphere for use in all pneumatic control systems within containment, and (3) there are no significant sources of oxygen in containment other than that resulting from radiolysis of the reactor coolant.

 GL-87-09 Sections 3.0 and 4.0 of the Standard Technical Specifications on the Applicability of Limiting Conditions for Operation and Surveillance Requirements (D024)

The NRC issued GL 87-09 on May 4, 1987, to provide guidance for three specific problems that had been encountered with the general requirements on the applicability of limiting conditions for operation (LCOs) and surveillance requirements in Section 3.0 and 4.0 of the Standard Technical Specifications. The problems involve (1) unnecessary restrictions on mode changes and inconsistent application of exceptions, (2) unnecessary shutdowns when surveillance intervals are inadvertently exceeded, and (3) possible conflicts between Specification 4.0.3 and 4.0.4. Staff guidance addressed these problems. Implementation of the guidance contained in GL 87-09 is voluntary.

GL-88-01 NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping
(B097)

The NRC issued GL 88-01, "NRC Position on IGSCC In BWR Austenitic Stainless Steel Piping," on January 25, 1988, to seek information from BWR licensees and construction permit holders regarding implementation of new staff positions regarding intergranular stress corrosion cracking (IGSCC). Addressees were asked to respond within 120 days of receipt of GL 88-01. The response was to indicate whether the utility intended to follow the staff positions included in the letter or propose alternative measures. An acceptable response from licensees also included a commitment to revise technical specifications (TS) to be consistent with the NRC staff positions in GL 88-01.

GL 88-01, Supplement 1, was issued on February 4, 1992. The supplement provided clarification, guidance, and acceptable alternative staff positions to the positions delineated in GL 88-01. The supplement did not require a response.

GL-88-11 NRC Position on Radiation Embrittlement of Reactor Vessel Materials
(A023)

Revision 2 to RG 1.99, "Radiation Embrittlement of Reactor Vescel Materials," became effective in May 1988. GL 88-11 was issued on July 12, 1988, and

indicated that RG 1.99 (Rev. 2) would be used by the staff for evaluating all submittals regarding pressure-temperature limits and for all analyses that require an estimate of vessel beltline embrittlement (except those for pressurized thermal shock).

GL 88-11 requested that all licensees of operating reactors use the methods described in Revision 2 to RG 1.99 to predict the effect of neutron radiation on reactor vessel materials as required by Appendix G to 10 CFR Part 50, unless they could justify the use of different methods. The licensees were required to submit the results of their analyses and an implementation plan for proposed actions. Acceptable responses have been received from all licensees and all technical reviews have been completed.

# GL-89-01 Implementation of Program Controls for RETS in Administration Control Section (D025)

The NRC issued GL 89-01 on January 31, 1989 to provide guidance for the implementation of programmatic controls for radiological effluent technical specifications (RETS) in the administrative controls section of TS and the relocation of procedural details of current RETS to the offsite dose calculation manual (ODCM) or process control program (PCP). It is not the staff's intent to reduce the level of radiological effluent control. Rather, this proposed TS change will provide programmatic controls for RETS consistent with regulatory requirements and allow relocation of the procedural details of current RETS to the ODCM or PCP. Implementation of the guidance contained in GL 88-11 is voluntary.

# GL-89-04 IST Reviews and Schedules (A025)

The staff noted that certain generic weaknesses were being observed in licensee inservice testing (IST) programs. The NRC issued GL 89-04, "Guidance on Developing Acceptable Inservice Testing Programs," on April 3, 1989. With the exception of certain plants noted in the generic letter, licensees of the remaining plants were required to (1) review their most recently submitted IST program and procedures against the positions of GL 89-04 and (2) confirm in writing within 6 months their conformance with the staff positions. These licenses also were required to submit a schedule for equipment and program modifications required as a result of the review. GL 89-04 granted approval for licensees to change their IST program without specific prior approval for changes that conformed to the staff positions.

In response to GL 89-04, many facilities revised their programs to reflect the relief granted by the staff positions in GL 89-04. In many cases, the facilities submitted revised programs, including additional relief requests that were outside the scope of the generic letter. The staff has completed individual evaluations for such plants. These facilities must confirm correction of any program anomalies identified in the staff's safety evaluation.

Temporary Instruction 2515/114 was issued on January 15, 1992, to provide uniform guidance for inspecting the activities of nuclear power plant licensees regarding inservice testing of pumps and valves.

#### GL-89-06 Task Action Plan Item I.D.2 - SPDS (F072)

The NRC issued NUREG-0737 on October 31, 1980 to provide guidance for implementing TMI action items. On December 17, 1982, GL 82-33 transmitted Supplement 1 to NUREG-0737 to clarify the TMI action items related to emergency response capability, including item I.D.2, safety parameter display system (SPDS). The staff evaluated licensee/applicant implementation of the SPDS requirements at 57 units and found that a large percentage of designs did not fulfill the requirements identified in Supplement 1 to NUREG-0737.

The NRC staff issued GL 89-06 on April 12, 1989 to provide information to licensees regarding the implementation status of the SPDS at their facilities. NUREG-1342 was enclosed with GL 89-06 to aid in implementing the SPDS requirements. Licensees were required to furnish one of the following: (1) certification that the SPDS fully meets the requirements of NUREG-0737, Supplement 1, taking into account the information provided in NUREG-1342; (2) certification that the SPDS will be modified to fully meet the requirements of NUREG-0737, Supplement 1, taking into account the information provided in NUREG-1342; or (3) if a certification cannot be provided, the licensee must provide a discussion of the reasons for that finding and a discussion of the compensatory action the licensee intends to take or has taken.

# GL-89-16 Installation of Hardened Wetwell Vent (B112)

The Mark I containment performance improvement (CPI) program identified a number of plant modifications that substantially enhance a plant's capability to both prevent and mitigate the consequences of severe accidents. The improvements that were recommended to the Commission included (1) improved hardened wetwell vent capability, (2) improved reactor pressure vessel depressurization system reliability, (3) an alternative water supply to the reactor vessel and drywell sprays, and (4) updated emergency procedures and training.

In a staff requirements memorandum (SRM) of July 11, 1989, the Commission directed the staff to (1) proceed with a generic implementation of installation of hardened wetwell vents at all Mark I containment plants; (2) forward the remaining CPI improvement requirements to the licensees of the Mark I containment plants for incorporation into their individual plant examination (IPE) programs; and (3) expedite the staff actions to implement the station blackout rule at the Mark I containment plants. The staff issued GL 89-16 to address generic implementation of hardened wetwell vent installation.

The licensees responded to GL 89-16 through the Boiling Water Reactor Owners Group (BWROG). The staff has completed the evaluation of the licensees' actions implementing the hardened vent capability at all 24 Mark I plants and has either approved the modification schedules or accepted the existing wetwell venting capability. The staff is currently preparing a TI for verification of hardened vent installation.

# GL-91-11 Vital Instrument Buses and Tie Breakers (GI-48 & 49) (L111)

GL 91-11 required all licensees to certify that plant procedures included time limitations and surveillance requirements for vital instrument buses, inverters or other onsite power sources to the vital instrument buses, and tie breakers that can connect redundant Class 1E buses between units at the same site. If plant procedures did not include time limitations and surveillance requirements as requested, a documented evaluation was needed to justify why such provisions were not needed.

## MPA-B116 Results of NRC Testing of MOVs (GL-89-10, Supp 3) (B116)

On June 5, 1990, the staff issued IN 90-40, "Results of NRC-Sponsored Testing of Motor-Operated Valves (MOVs)." The tests revealed that the valves required more thrust for opening and closing under various differential pressure and flow conditions than would have been predicted from standard industry calculations using typical friction factors. Therefore, the staff issued Supplement 3 to GL 89-10 on October 25, 1990, in hich described required actions for licensees of BWRs. Licensees were required to provide (1) criteria reflecting operating experience and the latest test data that were applied in determining whether the deficiencies exist in the subject MOVs, (2) a list of the MOVs found to have deficiencies, and (3) a schedule for the necessary corrective action.

# MPA-B117 Failure of Westinghouse SG Tube Mechanical Plugs (B117)

Bulletin 89-01, Supplement 2, requested that actions similar to those requested in NRC Bulletin 89-01, "Failure of Westinghouse Steam Generator Tube Mechanical Plugs," be extended to include all Westinghouse mechanical plugs fabricated from thermally treated Inconel 600.

Bulletin 89-01, requested that licensees determine whether certain mechanical plugs supplied by Westinghouse were installed in the steam generator (SG) and, if so, that an action plan (including plug repair and/or replacement) be implemented to ensure that the plugs would continue to provide adequate assurance of reactor coolant pressure boundary (RCPB). The request applied to only four plugs fabricated from Inconel heats and referred to as group 1 heats. These plugs were highly susceptible to primary water stress, corrosion cracking (PWSCC).

After issuance of Bulletin 89-01, Westinghouse compiled a complete listing of all Inconel 600 plug lifetime categorized by plant, date of installation, and heat number. All plugs, not included in group 1 heats were specified as group 2 heats.

During the summer and autumn of 1990, two plants experienced PWSCC affecting group 2 heats. These events were described in Bulletin 89-01, Supplement 1. Subsequently, Westinghouse revised its algorithm for estimating plug lifetimes PWSCC rather than temperature relationship, on the basis of operating experience trends.

Cumulated field experience prompted issuance of Bulletin 89-01, Supplement 2 on June 28, 1991, which requested that actions similar to those requested in BL 89-01, be extended to include all Westinghouse mechanical plugs group 2 heats fabricated from thermally treated Inconel 600. These actions were measured to ensure that the mechanical plugs would continue to provide adequate assurance of RCPB integrity under normal operating, transient, and postulated conditions.

## 5.2 <u>Verification Status</u>

For generic items such as MPAs, NRR issues TIs for those items that need to be verified in the field by the NRC staff after licensees have implemented the corrective actions specified in the MPA resolution. The NRC performs these inspections, consistent with other inspection priorities, to verify proper implementation of the requirements. Verification is not considered complete until the required inspection is conducted in accordance with the TI, and an inspection report has been issued documenting that requirements have been adequately satisfied by the licensee. On occasion, there may be issues for which the requirements specified in the TI for safety verification inspection are completed before total implementation of all aspects of the issue's resolution by the licensee.

The NRC issued 15 TIs for 15 individual MPA issues, which cover a total of 879 items at the 109 licensed plants. Upon initial inspection of certain items and further review by the regional offices, 103 items covered by the TIs were found to be inapplicable from a verification standpoint, leaving a total of 776 items requiring verification. The majority of items found not applicable are cases in which initial inspection did not reveal any significant findings and for which further inspection effort cannot be justified. As of September 30, 1993, 589 items (76 percent) had been verified. TI designations and the corresponding MPAs are summarized in Table 5.3. Table 5.4 summarizes the items remaining to be verified.

# Temporary Instructions for Resolved MPAs

SIMS Item	MPA	SIMS Title	TI Number
BL-79-15	B031	Deep Draft Pump Deficiencies	2500/001
BL-80-11	B059	Masonry Wall Design	2515/037
BL-88-04	X804	SI Pump Failure (Bulletin 88-04) (Old MPA B103)	2515/105
BL-88-07	X807	Power Oscillations in Boiling Water Reactors (BWRs)	2515/099
GL-80-002	A015	Quality Assurance Requirements Regarding Diesel Generator (201 Oil	2515/093
GL-81-21	B066	Natural Circulation Cooldown	2515/086
GL-83-08	D021	Modification of Vacuum Breakers on Mark I Containments	2515/096
CL-89-04	A025	Guidance on Accepting Inservice Testing Programs	2515/114
GL-89-07	L907	Power Reactor Safeguards Contingency Planning for Surface Vehicle Bombs	2515/102
GL-89-10	B110	Safety Related Motor Operated Valve Testing and Surveillance	2515/109
GL-92-04	X303	Reactor Vessel Water Level Instrumentation in BWRs	2515/119
MPA-B003	B003	PWR Moderator Dilution	2515/094
MPA-B011	B011	Flood of Equipment Important to Safety	2515/088
MPA-B041	B041	Fire Protection - Final Technical Specification (Including SER Supplements)	2515/062
MPA-C002	C002	BWR Recirculation Pump Trip (ATWS)	2515/095

Table 5.3

# Summary of Other MPA Items Requiring Verification

	SIMS_Item	Plants Covered	Plants Required	Plants Verified
BL-88-07	POWER OSCILLATIONS IN BIOILING WATER REACTORS (BWRS)	37	37	36
GL-81-21	NATURAL CIRCULATION COOLDOWN	72	67	60
GL-83-08	MODIFICATION OF VACUUM BREAKERS ON MARK I CONTAINMENTS	23	23	21
GL-89-04	GUIDANCE ON ACCEPTABLE INSERVICE TESTING PROGRAMS	40	38	3
GL-92-04	REACTOR VESSEL WATER LEVEL INSTRUMENTATION IN BWRs	37	37	0
GL-89-10	SAFETY-RELATED MOTOR-OPERATED VALVE TESTING AND SURVEILLANCE	109	109	9
MPA-B011	FLOOD OF EQUIPMENT INPORTANT TO SAFETY	9	3	1
MPA-B041	FIRE PROTECTION - FINAL TECH SPECS (INCLUDING SER SUPPLEMENTS)	65	62	61
MPA-C002	BWR-RECIRC. PUMP TRIP (ATWS)	21	21	19

NOTE: Plants Covered are those for which MPAs are applicable.

Plants Required are those plants requiring field verification.

Plants covered but for which field verification is not necessary have implemented the resolution in a manner not requiring plant hardware changes.

#### 5.3 Status by Plant

Table 5.5 summarizes information on the status of implementation and verification of MPAs at all licensed plants. For each plant, the table shows the total number of applicable items, the number and percentage of items implemented, and the number of items remaining to be implemented. For those MPAs that require the NRC to verify implementation actions, the table shows the number of items covered by a TI at each plant, the number of items requiring verification, and the number and percentage of items completed. Appendix D lists the unimplemented MPA items by plant and gives projected implementation dates.

Of the 109 plants, none have completely implemented all MPA items. On average, each plant less than 9 remaining items to implement. No plant has more than 12 remaining items, with the exception of Browns Ferry 1 and 3, which have 20 each.

#### STATUS OF OTHER MPAS - SUMMARY BY PLANT

		IMPLEME	NTATION			VERIF	CATION	
UNIT	ITEMS APPLICABLE	ITEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	TTEMS COVERED	ITEMS REQUIRED	TTEMS COMPLETED	PER CENT COMPLETED
ARKANSAS 1	102	94	(92)	8	10		7	(87)
ARKANSAS 2	86	78	[90]	8	9	7	6	(85)
BEAVER VALLEY 1	96	86	[89]	10	9	8	7	(87)
BEAVER VALLEY 2	45	35	(77 )	10	. 7	6	4	(66)
BIG ROCK POINT 1	70	64	(91)	6	10	9	6	(66)
BRAIDWOOD 1	43	32	(74)	11	6	5	4	(79 )
BRAIDWOOD 2	41	29	(70)	12	5	4	3	(75)
BROWNS FERRY 1	£5	65	(76)	20	11	10	5	(50 )
BROWNS FERRY 2	80	70	(87)	10	10	10	8	179 1
BROWNS FERRY 3	82	6.2	(75)	20	10	9	6	166 1
BRUNSWICK 1	82	7.3	(89)	9	9	9	6	166 )
BRUNSWICK 2	82	73	[89]	9	10	9	7	177 1
BYRON 1	43	32	174 1	11	5	4	3	175 1
BYRON 2	41	30	(73 )	11	5	4	3	175 1
CALLAWAY 1	46	36	(78 )	10	5	4	3	(75 )
CALVERY CLIFFS 1	92	87	(94)	5	9		7	[87]
CALVERT CLIFFS 2	8.8	8.2	(93)	6	9	8	7	(87 )
CATAWBA 1	44	37	184 1	7	5	- 4	2	150 1
CATAWBA 2	43	36	(83 )	7	5	. 4	2	150 1
CLINTON 1	41	33	(80)	8	1	6	4	166 1
COMANCHE PEAK 1	78	70	189 1	8	9	5	4	179 1
COMANCHE PEAK 2	73	70	(95 )	3	9	3	2	(66 )
C00K 1	91	80	[87]	11	. 8	7	6	185 1
COOK 2	90	81	[89]	9	8	7		(85 )
COOPER STATION	82	75	191 1	7	11	9	7	177 1
CRYSTAL RIVER 3	91	83	191 1	8	9	9	7	177 1
DAVIS-BESSE 1	88	80	190 1	8	9	6	5	183 1
DIAGLO CANYON I	52	46	188 1	6	6	6	6	(100)
DIABLO CANYON 2	47	41	187	6	5	5	5	(100)
DRESDEN 2	83	75	190 1	8	12	12	9	(75 )
DRESDEN 3	82	74	190 1	8	11	11		(72 )
DUANE ARNOLD	87	80	(91 )	7	12	11		172 1
FARLEY 1	90	82	191 1		8		7	(87 )
FARLEY 2	56	48	185 1	8	7	7	6	(85 )
FERMI 2	42	33	178 1	Q	7	6	4	(66 )
FITZPATRICK	83	78	193 1	5	12	11		172 1
FORT CALHOUN 1	105	100	195	5	10		7	187 1
GINNA	93	81	187 1	12	10	10		179
GRAND GULF 1	45	37	182 1		7	6		166 1
HADDAM NECK	92	86	193 1	6	9	9	7	177
HARRIS I	42	33	178 1	9	5		2	(50 )
HATCH 1	82	70	185 1	12	10	9	7	177
HATCH 2	77	65	184 1	12	11	10		179
HOPE CREEK 1	41	34	182 1	7	6	5	3	(59 )

#### STATUS OF OTHER MPAS - SUMMARY BY PLANT

		IMPLEME	NTATION			VERIFI	CATION	
UNIT	ITEMS APPLICABLE	TTEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	ITEMS COVERED	ITEMS REQUIRED	ITEMS COMPLETED	PER CENT COMPLETED
INDIAN POINT 2	95	87	(91)	8	10	9	7	(77 )
INDIAN POINT 3	91	85	(93)	6	9	8	6	(75)
KEWAUNEE	95	8.7	(91 )	8	9	. 8		(87)
LASALLE 1	4.0	29	[72]	11	/	. 6		(66 )
LASALLE 2	40	28 32	(69 ) (79 )	12		0	2	(59 )
LIMERICK 1	40 38	29	176		8		2	(59 )
LIMERICK 2	96	40	192 1	7	11	10		179
MAINE YANKEE MCGUIRE 1	53	7.7	183 1	Q	- 5	- 4	3	175
MCGUIRE 2	47		180 1	9	5	4	3	175
MILLSTONE 1	76		(89 )	8	11	10	7	(69 )
MILLSTONE 2	93		(93 )	6	9	8	7	(87)
MILLSTONE 3	42	3:	(83)	7	5	5	4	(79 )
MONTICELLO	8.2	7.6	(92)	6	11	10	7	(69)
NINE MILE POINT 1	85	75	[88]	10	11	11	9	(81)
NINE MILE POINT 2	38	30	(78)	. 8	6	5	3	(59)
NORTH ANNA 1	73	64	(87)	9	9	9		177
NORTH ANNA 2	5.6	47	(83 )	9	10	6		(66)
OCONEE 1	93	86	[92]		10	9	,	177
OCONEE 2	93 92	86 85	(92 ) (92 )	,	10	9	,	177 1
OCONEE 3 OYSTER CREEK 1	79	71	189 1		12	12	o o	175
	95	86	90 )	0	11	8	6	175 1
PALISADES PALO VERDE 1	40	29	172 1	11	- 5	5	5	(100)
PALO VERDE 2	38	2.8	173 1	10	5	5	5	(100)
PALO VERDE 3	39	28	171 )	11	. 5	5	5	(100)
PEACH BOTTOM 2	81	7.1	187 1	10	11	10	8	179 1
PEACH BOTTOM 3	80	6.9	(86)	11	11	.0	8	(79)
PERRY 1	38	27	(71)	11	7	6	4	(66)
PILGRIM 1	86	79	(91)	7	11	10	7	(69)
POINT BEACH 1	92	8.3	(90)	9	10	9	7	(77 )
POINT BEACH 2	92	83	(90)	9	9	8	6	175 1
PRAIRIE ISLAND 1	94	85	(90)	9	8	4	6	(85 )
PRAIRIE ISLAND 2	94	85 77	(90 )	9	8	10	7	(69)
QUAD CITIES 1	86 85	76	[89] [89]	9	11	10	,	(69 )
QUAD CITIES 2	37	30	(81 )	7	6	10	3	(59 )
RIVER BEND 1 ROBINSON 2	90	8.2	191 1		9		7	187 )
SALEM 1	92	87	189 1	10	9	9	7	177
SALEM 2	57	48	184 1	9	8	8	- 6	(75)
SAN ONOFRE 2	81	31	175 1	10	5	5	5	[100]
SAN ONOFRE 3	42	31	[73]	11	5	5	5	(100)
SEABROOK 1	37	32	[86]	5	5	5	4	(79 )
SEQUOYAH 1	53	46	(86)	7	5	5	4	(79 )

Table 5.5

#### STATUS OF OTHER MPAS - SUMMARY BY PLANT

		IMPLEME	NTATION			VERIF	CATION	
UNIT	ITEMS APPLICABLE	I TEMS COMPLETED	PER CENT COMPLETED	ITEMS REMAINING	ITEMS COVERED	ITEMS REQUIRED	ITEMS COMPLETED	PER CENT COMPLETED
SEQUOYAH 2 SOUTH TEXAS 1 SOUTH TEXAS 2 ST LUCIE 1 ST LUCIE 2 SUMMER 1 SURRY 1 SURRY 2 SUSQUEHANNA 1 SUSQUEHANNA 2 THREE MILE ISLAND 1 TURKEY POINT 3 TURKEY POINT 3 TURKEY POINT 4 VERMONT YANKEE 1 VOGILE 1 VOGILE 1 VOGILE 1 VOGILE 2 WASHINGTON NUCLEAR 2 WATERFORD 3 WOLF CREEK 1 ZION 2	45 41 385 41 457 100 400 400 400 400 400 400 400 400 400	37 33 31 88 34 89 29 29 29 29 29 29 35 27 36 31 35 91	(82 ) (80 ) (81 ) (82 ) (82 ) (84 ) (91 ) (72 ) (92 ) (92 ) (93 ) (75 ) (81 ) (81 ) (81 ) (91 )	8 8 7 7 7 7 7 8 8 1 1 1 8 7 6 2 9 8 8 8 8 8 8 8 8 8	55 10. 54 10 10 77 99 10 10 12 55 65 55 88	533 30549966888 105563366	422730775376673352255	766699077559877655886688
TOTALS / AVERAGES	7517	6576	85	941	879	776	589	75

Table 5.5

## 5.4 Status by Issue

Table 5.6 presents summary information on the status of implementation and verification of each MPA. For each issue, the table shows the number of applicable plants, the number and percentage of plants that have completed implementation, and the number of plants remaining to complete implementation. For those issues requiring NRC verification of corrective actions, the table shows the number of plants covered by the issue, the number of plants at which verification is required, and the number and percentage of plants that have completed verification.

Of the current 171 MPA issues, 127 have been fully implemented, twenty-five issues remain to be implemented at 5 or less plants and 8 issues remain to be implemented at 6 to 15 plants. The remaining 11 MPA issues are to be implemented at 26 or more plants.

		IMPLEMEN	NTATION				VERIFICATIO		
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	REQUIRED	PLANTS COMPLETED	PER CENT
47. LOSS OF OFF-SITE	2	2	(100)	0	NO				
75 (8089) SALEM ATWS 4.2.3	& 4 2 4 LIFE COM	68 IPONENTS	(100)	0	NO				
B059 (E004) BWR SINGLE LGC* (		15	(100)	0	NO				
B059 (E005) W N-1 LOOP OPERA	TION 8	8	(100)	0	NO				
BL-79-06 REVIEW OF OPERATI	10NAL ERRORS AND	58 SYSTEM MISALIC	(100) SNMENTS IDENTIF	FIED DURIN	NO				
BL-79-06A REVIEW OF OPERATI				FIED DURIN	NO				
BL-79-08 EVENTS RELEVANT		REACTORS IDENT		THREE MILE	NO				
BL-79-13 CRACKING IN FEEDS		48 NG	(100)	0	NO				
BL-79-15 DEEP DRAFT PUMP D		109	(100)	0	YES	109	102	102	(100)
BL-79-27 LOSS OF NON-CLASS	62 S-1-E INSTRUMENTA	TION AND CONTR	(100) OL SYSTEM BUS	DURING OP	NO				
8L-80-04 ANALYSIS OF A PWR	A5 R MAIN STEAM LINE	BREAK WITH CO	(100) INTINUED FEEDWA	ATER ADDIT	NO				
BL-80-06 ENGINEERED SAFETY	FEATURE (ESF) R	ESET CONTROLS	(100)	0	NO				
BL-80-07 BWR JET PUMP ASSE	MBLY FAILURE	33	(100)	0	NO				
BL-80-11 MASONRY WALL DESI	GN 64	64	(100)	0	YES	64	63	63	(100)
BL-80-18 MAINTENANCE OF AD	EQUATE MINIMUM F	LOW THRU CENTR	(100) IFUGAL CHARGIN	NG PUMPS F	MO				

Table 5.6

		IMPLEMEN	TATION				VERIFICATIO		
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS "EMAINING	REQUIRED	PLANTS	PLANTS REQUIRED	PLANTS	PER CENT
BL-87-01 THINNING OF PIPE	WALLS IN NUCLEAR	109 POWER PLANTS	(100)	0	NO				
BL-88-01 DEFECTS IN WESTI	NGHOUSE CIRCUIT	109 BREAKERS	(100)	ŏ	NO				
BL-88-02 STEAM GEERATOR T	UBE RUPTURE (BUL	32 LETIN 88-02) (0	[96 ] OLD MPA B099;	1	NO				
BL-88-03 GE HFA RELAYS (8	109 ULLETIN 88-03)	107	(98)	2	NO				
BL-88-04 SI PUMP FAILURE	106 (BULLETIN 88-04)	103 (OLD MPA B103)	(97 )	3	YES	106	35	35	(100)
BL-88-05 NONFORMING MATER	109 MIALS SUPPLIED BY	109 PIPING SUPPLIE	(100) ES, INC. AT FO	SOM	NO				
BL-88-07 POWR OSCILLATION	37 IS IN BOILING WAT	35 ER REACTORS (BY	WRS) (94 )	2	AEZ	37	37	36	(97)
BL-88-08 THERMAL STRESSES	109 S IN PIPING CONNE	95 CTED TO REACTOR	R COOLANT SYST	EMS 14	NO				
D1 -88-09	50 INNING IN WESTING	50	(100)	0 .	NO				
BL-88-10 NONCONFORMING MC	DLDED-CASE CIFCUI	T BREAKERS	(98 )	2	NO				
BL-88-11 PRESSURIZER SURG	SE LINE THERMAL S	45 TRATIFICATION	(63 )	26	NO				
21 20 01	INGHOUSE STEAM GE	72	(98 ) ECHANICAL PLUG	s 1	NO				
01 00 02	109 N CRACKING OF HIG	106	197 1	3	NO				
m. en en	72 OF REQUIRED SHUTD	12	(100)	0	NO				
	L IN TRANSMITTERS	109	(1001	0	NO				

		IMPLEMEN	ITATION		VERIFICATION					
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS	PLANTS COMPLETED	DED CENT	
DL-90-02	RGIN CAUSED BY CH	2.7	11001	0	NO					
BL-92-01 FAILURE OF THERMO	109 -LAG 330 FIRE BARR	57 IER SYSTEM	(52 )	5.2	NO					
BL-93-02 IMPL OF PROG CONT	ROLS FOR RAD EFFL	ENT TECH SPE	(58 ) CS IN ADM CONT	45 SECTION	NO					
BL-93-03 RESOLUTION OF ISS	UES REL TO REACTOR	VESSEL WATE	R LEVEL INST I	N BWR S	NO					
GL-79-25 INFORMATION REQUI	RED TO REVIEW CORP	19 ORATE CAPABI	(100) LITIES	0	NO					
GL-79-32 TMI-2 LESSONS LEA	RNED TASK FORCE RE	59 PORT - NUREG	-0578 (100)	0	NO					
GL-79-33 TRANSMITTING NURE	G-0567- SECURITY T	62 RAINING AND	QUALIFICATIONS	PLAN 0	NO					
GL-79-36 ADEQUACY OF STATI	ON ELECTRIC DISTRI	64 BUTION SYSTE	MS (100)	0	NO					
GL-79-43 REACTORS CAVITY S	EAL RING GENERIC IS	SSUE (PWR)	(100)	0	NO					
GL-79-46 CONTAINMENT PURG	ING AND VENTING DU	64 RING NORMAL	(100) OPERATION - GU	IDELINES	NO					
GL-79-58		1.2	(100)		NO					
GL-80-002 QUALITY ASSURANCE	40 REQUIREMENTS REGAR	40 RDING DIESEL	(100) GENERATOR FUE	L DIL 0	YES	40	37	37	(100)	
	66				NO					
GL-80-030 CLARIFICATION OF	THE TERM OPERABLE	62 AS IT APPL	(100) IES TO SINGLE	FAILURE 0	NO					
	20				NO .					

Table 5.6

			NTATION			VERIFICATION						
TTEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING		PLANTS	PLANTS	PLANTS COMPLETED	PER CENT			
GL-81-01 QUALIFICATION OF					NO							
GL-81-04 EMERGENCY PROCEDU					NO							
GL-81-14 SEISMIC QUALIFICA	TION OF AUXILIAN	42 RY FEEDWATER S	YSTEMS (100)	Ō	NO							
GL-81-21 NATURAL CIRCULATI	ON COOLDOWN	72	(100)	0	YES	72	67	60	(89)			
GL-83-08 MODIFICATION OF V	ACUUM BREAKERS (	ON MARK I CONT	(95 ) AINMENTS	1	YES	23	23	21	(91 )			
GL-83-43 REPORTING REQUIRE	MENTS OF 10 CFR	PART 50, SECT	10NS 50 72 AND	50.73, AN	NO							
GL-84-09 RECOMBINER CAPABI	LITY REQUIREMENT	15 TS OF 10 CFR 5	0.44(C)(3)(II)	6	NO							
GL-84-15- PROPOSED STAFF AC	TIONS TO IMPROVE	85 E AND MAINTAIN	(100) DIESEL GENERA	TOR RELIAB	NO							
GL-87-05 REQUEST FOR ADDIT	IONAL INFORMATIO	23 DN-ASSESSMENT	OF LICENSEE ME	ASURES TO	NO							
GL-87-09 SECTIONS 3.0 AND	4.0 OF THE STANE	DARD TECHNICAL	SPECIFICATION	S (STS) ON	NO							
GL-87-12 LOSS OF RESIDUAL	70 HEAT REMOVAL (RE	TO HR WHILE IN T	HE REACTOR COO	LANT SYSTE	NO							
GL-88-01 NRC POSITION ON I	GSCC IN BWR AUS	28 TENITIC STAINL	ESS STEEL PIPI	NG 9	NO							
GL-88-12 REMOVAL OF FIRE P	752 ROTECTION REQUI	49 REMENTS FROM T	ECHNICAL SPECI	FICATIONS 3	MO							
GL-88-05 BORIC ACID CORROS	ION OF CARBON S	TEEL REACTOR P	RESSURE BOUNDA	RY COMPONE	NO							
GL-88-06 REMOVAL OF ORGANI	ZATIONAL CHARTS	FROM TECHNICA	(100) L SPECIFICATIO	N ADMINIST	NO							

IMPLEMENTATION  PLANTS PLANTS PER CENT PLANTS  ITEM APPLICABLE COMPLETED COMPLETED REMAINING  IL-88-11 109 104 (95 ) 5						VERIFICATION						
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS	PLANTS	PLANTS COMPLETED	PER CENT			
GL-88-11 NRC POSITION ON	RADIATION EMBRIT	104 TLEMENT OF REA	CTOR VESSEL MA	TERIALS AN	NO			*********				
GL-88-16 REMOVAL OF CYCLE	E-SPECIFIC PARAMET	84 TER LIMITS FRO	M TECHNICAL SP		NO							
GL-88-20 INDIVIDUAL PLAN	108 T EXAMINATION FOR	SEVERE ACCIDE	MT VULNER 10C	101 FR50 54(F)	NO							
GL-89-01 IMPL OF PROG COM	NTROLS FOR RAD EFF	FLUENT TECH SP	ECS IN ADM CON	T SECTION	NO							
GL-89-04 GUIDANCE ON DEVE	ELOPING ACCEPTABLE	30 E INSERVICE TE	STING PROGRAMS	10	YES	40	38	3	(7 )			
GL-89-06 TASK ACTION PLAN	95 N ITEM 1.D.2 - SAF	90 FETY PARAMETER	DISPLAY SYSTE	м 5	NO							
GL-89-07 POWER REACTOR SA	109 AFEGUARDS COTINGEN	109 NCY PLANNING F	OR SURFACE VEH	ICLE BOMBS	YES	109	108	108	(100)			
GL-89-08 EROSION/CORROSIO	ON-INDUCED PIPE WA	107 ALL THINNING	[98]	2	NO							
GL-89-10 SAFETY-RELATED N	HOTOR-OPERATED VAL	VE TESTING AN	D SURVEILLANCE	108	YES	109	109	9	(8 )			
GL-89-14 LINE-ITEM IMPROV	V. IN TECH SPECS -	REMOVAL OF 3	25 LIMIT ON E	XT SURV 2	NO							
GL-89-16 INSTALLATION OF	A HARDENED WETWEL	20 L VENT (GL 89	-16) [83]	4	NO							
GL-90-02 ALTERNATE REQ FO	OR FUEL ASSEMBLIES	IN THE DESIG	N FEAT SECT OF	TECH SPEC	NO							
GL-90-09 ALT REQ FOR SNUE	BBER VISUAL INSPEC	TION INERVALS	& CORRECTIVE	ACTIONS 1	NO							
GL-91-01 REMOVAL OF THE S	SCHEDULE FOR THE W	VITHORAWAL OF	REACT VESSEL M	AT SPEC.	NO							
GL-91-04 CHANGES IN TECH	SPEC SURV. INTERV	ALS TO ACCOMO	DATE A 24-MO F	UEL CYCLE	NO							

		IMPLEME							
ITEM	APPLICABLE	PLANTS COMPLETED	PER CENT	PLANTS REMAINING	REQUIRED		PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
GL-91-06 ADEQUACY OF SAFET	Y-RELATED DC PON	108	(100)	0	NO				
GL-91-08 REMOVAL OF COMPON	ENT LISTS FROM	TECHNICAL SPEC	IFICATIONS	Ž	NO				
GL-91-09 MOD OF SURV INTER	VAL FOR ELEC PR	TO ASSEM IN P	OWER SUPPL	Ò	NO				
GL-91-11 VITAL INSTRUMENT	BUSES & TIE BRE	102 AKERS (GI 48/4	9,GL 91-11)	7	NO				
GL-91-13 ESSENTIAL SERVICE	WATER SYSTEM F	AILURES (GL-91	-13) (85 ) -13) (GI-130)	2	NC				
GL-92-01 REACTOR VESSEL ST	109 RUCTURAL INTEGR	O TTY	(0 )	109	NO				
GL-92-04 REACTOR VESSEL WA	TER LEVEL INSTR	UMENTATION IN	8WRS (72 )	10	YES	37	37	0	(0)
GL-92-08 THERMO-LAG 330-1		30	[27]-	79	NO				
GL-93-04 ROD CONTROL SYS F	AIL & WITHDRAWA	L OF ROD CONT	CLUSTER ASSEMB	LIES 49	NO				
MPA-A024 MISCELLANEOUS AME	96 NDMENTS AND SEA	96 RCH REQUIREMEN	(100)	0	NO				
MPA-A001 10 CFR 50.55 A(G)		63	(100)	0	NO				
MPA-A002 APPENDIX I - ALAR	A 64	64	(100)	0	NO				
MPA-A003 SECURITY REVIEWS-	MODIFIED AMENDM	ENT PLANS	(100)	0	NO				
MPA-A004 APPENDIX J - CONT	AINMENT LEAK TE	STING 47	[95]	2	NO				
MPA-A005 GE MARK I CONTAIN		-SHORT TERM	(100)	0	NO				

#### STATUS OF OTHER MPA( T) - SUMMARY BY ITEM

			ATION		VERIFICATION				
ITEM A	PLANTS PPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	COVERED	REQUIRED		PER CENT COMPLETED
MPA-A006 RESPIRATORY PROTECTION		11	(100)	0	NO				
MPA-A007 APPENDIX G - FRACTURE	11 TOUGHNESS	11	(100)	0	NO				
MPA-A008 ECCS EVALUATION-GENER		COMPLIANCE	(100)	0	NO				
MPA-A009 PRESSURE VESSEL BELTL		50 SURVEILLANCE	(100)	0	NO				
MPA-A010 CONTINGENCY PLANNING	62	62	(100)	0	NO				
MPA-A012 VITAL AREA ANALYSIS	59	59	[100]	0	NO				
MPA-A014 10CFR 50 55 A(G) - INS		ING 50	(100)	0	NO				
MPA-B116 RESULTS OF MRC TESTING		31 L 89-10, SUPP3)	{79 }	8	NO				
MPA-B117 FAILURE OF WESTINGHOUS				SUPP2) 5	NO NO				
MPA-BII8 IPE EXTERNAL EVENTS (G			(0 )	107	NO				
MPA-8122 LOSS OF FILL-OIL IN TR	109 ANSMITTERS	16 MANUFACTURED BY	(14 ) ROSEMOUNT	93	NO				
MPA-8001 DIESEL GENERATOR LOCKO	27 OUT 27	27	(160)	0	NO				
MPA-8002 FIRE PROTECTION	55	55	(100)	0	NO				
MPA-8003 PWR MODERATOR DILUTION	38	38	(100)	0	YES	38	34	34	(100)
MPA-BOOS BWR RELIEF VALVE	22	22	(100)	0	NO				

Table 5.6

AFETY ISSUE MANAGEMENT SYSTEM

STATUS OF OTHER MPAIS! - SUMMARY BY ITEM

	IMPL	IMPLEMENTATION				VERIFICATION	z	
ITEM APPLICABLE	PLANTS E COMPLETED	18%	PLANTS	REQUIRED	PLANTS	PLANTS	COMPLETED	PER CENT
24 MPA-8007 STEAM GENERATOR FEEDWATER FLOW INSTABILITY	M INSTABILITY	(100)	0	ON				
MYA-BOOS PWR HPSI-LPSI FLOW RESISTANCE	15	(100)	10	ON				
MPA-8009 CHARGING SYSTEMS PIPE VIBRATIONS	DNS 17	(100)	0	ON				
MPA-8010 BURNABLE POISON ROD FAILURE -	- B&W 3	(100)	0	ON				
MPA-8011 FLOGD OF EQUIPMENT IMPORTANT	TO SAFETY 9	(100)	9	YES	on .	3	-	(33 )
MPA-B012 STEAM GENERATOR TUBE INSPECTION	11 11 ION	(1001)	0	ON				
MPA-8013 FULL 1:20 SOW	10	(100)	0	ON				
MPA-5614 CFA GUIDE TUBE HEAR	35	(100)	0	NO				
MFA-E015 F-E FOISON ROD GROWTH	-	1001	0	ON				
MPA-BOIG EMERGENCY PLANNING AND REVISIONS	CONS 64	(100)	0	ON				
MPA-BOIS WORTHINGTON RHR PUMP SHAFT INTEGRITY	WTEGRITY 2	(100)	0	NO				
MPA-8019 NEUTRON SHIELDING - CE REACTORS	24.S	(100)	0	NO				
NPA-B020 SPANAGE DUE TO SE	59 59 TO SEAL DETERIORATI	10N (100)	0	WO				
MPA-8021 LOSS OF 125-V DC BUS VOLTAGE WITH LOSS	55 0F	ANNUMCIATOR SYSTEM	0 M3	NO				
MPA-8026 INADVERTANT SAFETY INJECTION DURING COOLDOWN	DURING COOLDON	(100)	0	NO				

Table 5.6

		IMPLEMEN	NTATION				VERIFICATIO	N	
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING		PLANTS COVERED		PLANTS COMPLETED	
MPA-B027 REVIEW RESPONSES T		22	(100)	0	NO				
MPA-B029 SWR FEEDWATER PUMP		- 5	(100)	0	NO				
PA-B030 TEAM GENERATOR RE	PLACEMENT PROGR		(100)	0	NO				
PA-8032 LOCKED SI SIGNAL		22	(95)	1	NO				
PA-8034 WR JET PUMP INTEG		1	(100)	0	NO				
PA-B035 RIFICE ROD ASSEMB	LY INTEGRITY -	B&W 5	(100)	0	NO				
PA-8038 ESISTANCE TEMPERA	TURE DETECTOR (	RTD) RESPONSE	- CE (100)	0	NO				
PA-B037 TEAM GENERATOR TU	BE DENTING AND	SUPPORT PLATE	MODIFICATIONS	- CE 0	NO				
PA-8038 ENDON SURVEILLANC	E - BECHTEL CON	TAINMENTS 2	(100)	0	NO				
PA-8039 WR PRESSURE - TEM	98 PERATURE LIMIT		(100)	0	NO				
PA-8040 TPE SUPPORT BASE	PLATES 1	1	(100)	0	NO				
PA-B041 IRE PROTECTION -	FINAL TECH SPEC	63 S (INCLUDES SI	(96 ) ER SUPPLEMENTS)	2	YES	65	62	61	(98 )
PA-B046 NALYSIS OF TURBIN		52	(100)	0	NO				
PA-8049 WR CONTROL ROD MI		11	(100)	0	NO				
PA-8052 EVIEW OF SAFETY A	27	27	(100)	0	NO				

		IMPLEMEN					VERIFICATION	N	
ITEM	APPLICABLE		PER CENT COMPLETED	REMAINING	REQUIRED	PLANTS COVERED	REQUIRED	PLANTS COMPLETED	PER CENT
MPA-8055 B&O REPORT ON BWRS	5	5	(100)	0	NO			Figure	
MPA-B056 CONTROL RODS FAILUR	E TO INSERT.	6 SWR	(100)	Ö	NO				
MPA-B057 DHR CAPABILITY	31	31	[100]	Ō	NO				
MPA-8064 ACC INDUCED FLUX ER	RORS (B&W)	7	(100)	0	NO				
MPA-B067 THERMAL SHOCK	8	8	(100)	0	NO				
MPA-B070 FATIGUE TRANSIENT L		44	(100)	0	NO				
MPA-8073 PLANS FOR PREVENTIN			(100) RITERION	0	NO				
MPA-B074 THERMAL SHIELD FOLL	OW UP ANALYSIS	4	(100)	0	NO				
MPA-COOS PUMP SUPPORT-LAMELI		34	(100)	0	NO				
MPA-COOL PWR SECONDARY WATER		35 NITORING REQUIR	(100) REMENTS	0	NO				
MPA-C002 BWR-RECIRC PUMP TE		21	(100)	0	YES	21	21	19	(90 )
MPA-C003 QUALIFICATIONS OF F		CTION MANAGER	(100)	0	NO				
MPA-COO4 FILTER TECH SPECS	16	16	(100)	0	NO				
MPA-COOS CONVERSION TO STANE	ARD TECH SPECS	8	(100)	0	NO				
MPA-C007 FUEL HANDLING ACCIE		36 NTAINMENT	(100)	0	NO				

Table 5.6

		IMPLEME					VERIFICATION		
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
MPA-COOS BWR POST LOCA H2	CONTROL 9	9	(100)	0	NO				
MPA-C009 PWR AUX FW PUMPS	7	7	(100)	0	NO				
MPA-COII RPS POWER SUPPLY	22	21	(95 )	1	NO				
MPA-C012 BORON SOLUBILITY		4 COOLING FOLL	OWING LOCA	0	NO				
MPA-DO02 ECCS ZIRC CLAD MO		IANCE WITH 10	CFR-46	0	NO				
MPA-D003 PRESSURIZER HEATU	P RATE ERROR	16	(100)	0	NO				
MPA-DOOS PLANT UPI MODEL P		6	(100)	0	NO				
MPA-DOOG PEAKING MODEL CHA		FOR CORE	(100)	0	NO				
MPA-D007 BWR POWER LEVEL F	OR RWM	3	(100)	0	NO				
MPA-DOOS DEFICIENCY IN CHE	M ADDITION TO CO	3 ONTAINMENT SPR	AYS (100)	0	NO				
MPA-D009 GE ECCS INPUT ERR		1	(100)	0	NO				
MPA-D011 FISSION GAS RELEA	- W.W.	59	(100)	0	NO				
MPA-DO13 B&W SMALL BREAK E	RROR 6	- 6	(100)	0	NO				
MPA-D014 REACTOR VESSEL WE	LD - WIRE DEFICE	IENCY 10	(100)	0	NO				
MPA-D015 HIGH ENERGY LINE			(100) FAILURE	0	NO				

Table 5.6

		IMPLEME	NTATION			1000	VERIFICATIO	N	
ITEM	PLANTS APPLICABLE	PLANTS COMPLETED	PER CENT COMPLETED	PLANTS REMAINING	REQUIRED	PLANTS COVERED	PLANTS REQUIRED	PLANTS COMPLETED	PER CENT COMPLETED
MPA-D018 NUREG 0630 CLADDING	MODELS (B&W F	PLANTS)	(100)	0	NO				
MPA-E001 SPENT FUEL POOL EXP	ANSIONS 30	30	(100)	ò	NO				
MPA-E002 FUEL CASK DROP	7	7	(100)	Ô	NO				
MPA-E003 CORE RELOADS REQUIR	30 ING PRIOR NRC	APPROVAL 30	(100)	0	NO				
MPA-E006 CEA POSITION INDICA	TION FAILURES	- CE 7	(100)	0	NO				
MPA-E007 REACTOR PROTECTION	SYSTEM LOGIC -	CE 5	(100)	0	NO				

## 5.5 Conclusions

After a detailed review of the implementation and verification status of the resolution of the 171 MPAs, the NRC staff has concluded the following:

- The NRC closure for MPAs is adequate to protect the public health and safety.
- Licensees are making progress toward implementing MPA-related actions requested by the staff, and the framework exists to oversee future implementation actions associated with those MPAs that have been resolved.
- Progress is being made in verifying the completion of implementation actions associated with those MPAs that have been resolved.

The NRC staff will maintain close watch over implementation actions and schedules proposed by licensees to ensure that they are completed in accordance with regulatory requirements.

# Appendix A

LISTING OF UNIMPLEMENTED TMI ITEMS BY ISSUE

# APPENDIX A

This appendix provides a detailed list, by issue, of the 61 TMI Action Plan items not implemented, along with the projected target date for completing the item. Status and projected implementation dates are presented as of September 30, 1993.

							IMPL
		1 SSUE	MPA	PLANT	TAC	TITLE	DATE
	1.	1.0.2.2	F075	BROWNS FERRY 1	M74602	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - INSTALLED	07/97
	2.	1.0.2.2	F075	BROWNS FERRY 2	M74607	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - INSTALLED	10/93
	3.	1.0.2.2	F075	BROWNS FERRY 3	M74612	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - INSTALLED	06/95
	4.	1.0.2.3	F009	BROWNS FERRY 1	M51223	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - FULLY IMPLEMENTED	07/97
	5.	1.0.2.3	F009	BROWNS FERRY 2	M51224	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - FULLY IMPLEMENTED	10/93
	6.	1.0.2.3	F009	BROWNS FERRY 3	M51225	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - FULLY IMPLEMENTED	06/95
	7.	1.0.2.3	F009	PALO VERDE 1	M56654	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - FULLY IMPLEMENTED	11/93
	8.	1.0.2.3	F009	PALO VERDE 3	M64581	PLANT-SAFETY PARAMETER DISPLAY CONSOLE - FULLY IMPLEMENTED	11/93
	9.	11.8.3.2	F076	BROWNS FERRY 3	M74613	POSTACCIDENT SAMPLING - CORRECTIVE ACTIONS	06/95
	10.	11.8.3.3	F077	BROWNS FERRY 1	M74603	POSTACCIDENT SAMPLING - PROCEDURES	07/97
	11.	11.8.3.3	F077	BROWNS FERRY 3	M74614	POSTACCIDENT SAMPLING - PROCEDURES	06/95
	12.	11.8.3.4	F012	BROWNS FERRY 1	M44423	POSTACCIDENT SAMPLING - PLANT MODIFICATIONS (LL CAT B)	07/97
	13.	11.8.3.4	F012	BROWNS FERRY 3	M44425	POSTACCIDENT SAMPLING - PLANT MODIFICATIONS (LL CAT B)	06/95
D	14.	II.D.1.3	F084	FORT CALHOUN 1	M75832	RELIEF & SAFETY VALVE TEST REQUIREMENTS - BLOCK-VALVE TESTING	06/94
w	15.	11.E.4.2.1-4	F078	BROWNS FERRY 1	M74604	CONTAINENT ISOLATION DEPENDABILITY - IMP. DIVERSE ISOLATION	07/97
	16.	11.E.4.2.1-4	F078	BROWNS FERRY 3	M74615	CONTAINENT ISOLATION DEPENDABILITY - IMP. DIVERSE ISOLATION	06/95
	17.	11.E.4.2.6	F079	BROWNS FERRY 3	M74516	CONTAINMENT ISOLATION DEPENDABILITY - CHIMI PURGE VALVES	06/95
	18.	11.F.1.1	F081	BROWNS FERRY 1	M74605	ACCIDENT-MONITORING - PROCEDURES	07/97
	19.	11.F.1.1	F081	BROWNS FERRY 3	M74617	ACCIDENT-MONITORING - PROCEDURES	06/95
	20.	11.F.1.2.A	F020	BROWNS FERRY 1	M44903	ACCIDENT-MONITORING - MOBLE ('45 MONITOR	07/97
	21.	11.F.1.2.A	F020	BROWNS FERRY 3	M44905	ACCIDENT-MONITORING - NOBLE GAS MONITOR	06/95
	22.	11.5.1.2.8	F021	BROWNS FERRY 1	M44974	ACCIDENT-MONITORING - IODINE/PARTICULATE SAMPLING	07/97
	23.	11.F.1.2.8	F021	BROWNS FERRY 3	M44976	ACCIDENT-MONITORING - IODINE/PARTICULATE SAMPLING	06/95
	24.	11.F.1.2.C	F022	BROWNS FERRY 1	M45045	ACCIDENT-MONITORING - CONTAINMENT HIGH-RANGE MONITOR	07/97
	25.	11.F.1.2.C	F022	BROWNS FERRY 3	M45047	ACCIDENT-MONITORING - CONTAINMENT HIGH-RANGE MONITOR	06/95
	26.	11.F.1.2.D	F023	BROWNS FERRY 3	M4.7584	ACCIDENT-MONITORING - CONTAINMENT PRESSURE	06/95
	27.	11.F.1.2.E	F024	BROWNS FERRY 3	M47655	ACCIDENT MONITORING - CONTAINMENT WATER LEVEL	06/95
	28.	11.F.2.4	F026	BROWNS FERRY 1	M45116	INSTRMNTATH FOR DETECT. OF INADEQ CORE CLNG INSTILL ADD'L INSTRMNTATH	07/97
	29.	11.F.2.4	F026	BROWNS FERRY 3	M45118	INSTRUMTATE FOR DETECT. OF INADEQ CORE CLEG INSTILL ADD'L INSTRUMTATE	06/95
	30.	11.F.2.4	F026	DRESDEN 3	M45130	INSTRUMNTATH FOR DETECT. OF INADEQ CORE CLING INSTILL ADD'L INSTRUMNTATH	11/93
	31.	11.F.2.4	F026	QUAD CITIES 2	N45165	INSTRUMNTATH FOR DETECT. OF IMADEQ CORE CLING INSTILL ADD'L INSTRUMNTATH	11/93
	32.	11.K.3.13.8	F043	BROWNS FERRY 1	M45532	B&O TASK FORCE - HPCI & RCIC INITIATION LEVELS MODIFICATION	07/97
	33.	11.K.3.13.8	F043	BROWNS FERRY 3	M45534	BEO TASK FORCE - HPCI & RCIC INITIATION LEVELS MODIFICATION	06/95
	34.	11.K.3.18.C	F048	BROWNS FERRY 1	M45680	B&O TASK FORCE - ADS ACTUATION MODIFICATIONS	07/97
	35.	11.K.3.18.C	F048	BROWNS FERRY 3	M45682	B&O TASK FORCE - ADS ACTUATION MODIFICATIONS	06/95

	36.	11.K.3.27	F054	BROWN'S FERRY 1	M45776	B&O TASK FORCE - COMMON REFERENCE LEVEL FOR BURS	07/97
	37.	11.K.3.27	F054	BROWNS FERRY 3	1445778	B&O TASK FORCE - COMMON REFERENCE LEVEL FOR BURS	06/95
	38.	11.K.3.28	F055	BROWNS FERRY 1	748260	B&O TASK FORCE - QUALIFICATION OF ADS ACCUMULATORS	07/97
	39.	11.K.3.28	F055	BROWNS FERRY 3	948262	BEG TASK FORCE - QUALIFICATION OF ADS ACCUMULATORS	06/95
	40.	111.0.3.4.3	F070	HADDAM HECK	M46450	CONTROL ROOM HABITABILITY - IMPLEMENT MODIFICATIONS	12/93
	41.	MPA-F071	F071	BIG ROCK POINT 1	M56103	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWIP TO F-8)	12/93
	42.	MPA-F071	F071	BROWNS FERRY 1	M56104	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWARP TO F-8)	07/97
	43.	MPA-F071	F071	BROWNS FERRY 3	M56106	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	06/95
	44.	MPA-F071	F071	DIABLO CANYON 1	M56117	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWAY TO F-8)	05/94
	45.	MPA-F071	F071	DIABLO CANYON 2	M68040	1.0.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	10/94
	46.	MPA-F071	F071	HADDAM NECK	M56128	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWARP TO F-8)	03/96
	47.	MPA-F071	F071	MILLSTONE 1	M56138	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWARD TO F-8)	12/95
	48.	MPA-F071	F071	NINE MILE POINT 1	M56141	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	03/95
D	49.	MPA-F071	F071	NORTH ANNA 1	M56142	I.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWAR TO F-8)	12/94
4	50.	MPA-F071	F071	HORTH ANNA 2	MS6143	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWAR TO F-8)	12/94
	51.	MPA-F071	F071	PILGRIM 1	M59329	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWARD TO F-8)	03/95
	52.	MPA-F071	F071	POINT BEACH 1	M56152	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWARD TO F-8)	12/93
	53.	MPA-F071	F071	POINT BEACH 2	M56153	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWARD TO F-8)	12/93
	54.	MPA-F071	F071	PRAIRIE ISLAND 1	M56154	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWIP TO F-8)	04/94
	55.	MPA-F071	F071	PRAIRIE ISLAND 2	M56155	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	11/93
	56.	MPA-F071	F071	SAN ONOFRE 2	M56163	1.0.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	10/93
	57.	MPA-F071	F071	SAN ONOFRE 3	M56164	1.0.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	10/93
	58.	MPA-F071	F071	SEQUOYAH 1	M56165	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWIP TO F-8)	12/93
	59.	MPA-F071	F071	SEQUOYAH 2	M56166	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWIP TO F-8)	12/93
	60.	MPA-F071	F071	SURRY 1	M56170	1.0.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	12/94
	61.	MPA-F071	F071	SURRY 2	M56171	1.D.1.2 DETAILED CONTROL ROOM REVIEW (FOLLOWUP TO F-8)	12/94

# Appendix B

LISTING OF UNIMPLEMENTED USI ITEMS BY ISSUE

# APPENDIX B

This appendix provides a detailed list, by issue, of the 177 USI items not implemented, along with the projected date for completing the item. Status and projected implementation dates are presented as of September 30, 1993.

							IMPL
		ISSUE	MPA	PLANT	TAC	TITLE	DATE
	1.	A-24	8060	BROWNS FERRY 1	M42481	QUALIFICATION OF CLASS 1E SAFETY-RELATED EQUIPMENT	07/97
	2.	A-24	8060	BROWNS FERRY 3	M42483	QUALIFICATION OF CLASS SE SAFETY-RELATED EQUIPMENT	06/95
	3.	A-31	5004	HADDAM NECK	M77025	RHR SHUTDOWN REQUIREMENTS	10/94
	4.	A-44	A022	ARKANSAS 1	M68508	STATION BLACKOUT	12/94
	5.	A-44	A022	ARKANSAS Z	M68509	STATION BLACKOUT	12/94
	6.	A-44	A022	BIG ROCK POINT 1	M68514	STATION BLACKOUT	10/94
	7.	A-44	A022	BROWNS FERRY 1	M68517	STATION BLACKOUT	06/95
	8.	A-44	£022	BROWNS FERRY 2	M68518	STATION BLACKOUT	06/95
	9.	A-44	A022	BROWNS FERRY 3	M68519	STATION BLACKOUT	06/95
	10.	A-44	A022	BRUNSWICK 1	M68520	STATION BLACKOUT	10/93
	11.	A-44	A022	BRUNSWICK 2	M68521	STATION BLACKOUT	10/93
	12.	A-44	A022	CALVERT CLIFFS 1	M68525	STATION BLACKOUT	05/96
	13.	A-44	A022	CALVERT CLIFFS 2	M68526	STATION BLACKOUT	05/96
PD	14.	A-44	A022	CATAWBA 1	M68527	STATION BLACKOUT	06/94
8.3	15.	A-44	A022	CATAWBA 2	M68528	STATION BLACKOUT	06/94
-	16.	A-44	A022	COMANCHE PEAK 1	M68530	STATION BLACKOUT	07/94
	17.	A-64	A022	COOK 1	M68532	STATION BLACKOUT	11/93
	18.	A-44	A022	COOK 2	M68533	STATION BLACKOUT	11/93
	19.	A-44	A022	CRYSTAL RIVER 3	M68535	STATION BLACKOUT	06/94
	20.	A-44	A022	FARLEY 1	M68543	STATION BLACKOUT	04/94
	21.	A-44	A022	FARLEY 2	M68544	STATION BLACKOUT	10/93
	22.	A-44	A022	FITZPATRICK	M68546	STATION BLACKOUT	06/94
	23.	A-44	A022	FORT CALHOUN 1	M68547	STATION BLACKOUT	11/93
	24.	A-44	A022	GINNA	M68548	STATION BLACKOUT	09/94
	25.	A-44	A022	HADDAM NECK	M68551	STATION BLACKOUT	10/93
	26.	A-44	A022	HARRIS 1	M68552	STATION BLACKOUT	06/94
	27.	A-44	A022	HOPE CREEK 1	M68555	STATION BLACKOUT	06/94
	28.	A-46	A022	INDIAN POINT 2	M68556	STATION BLACKOUT	12/93
	29.	A-44	A022	INDIAN POINT 3	M68557	STATION BLACKOUT	06/94
	30.	A-44	A022	KEWALNEE	M68558	STATION BLACKOUT	11/93
	31.	A-44	A022	MCGUIRE 1	M68564	SYATION BLACKOUT	06/94
	32.	A-44	A022	MCGUIRE 2	1468565	STATION BLACKOUT	06/94
	33.	A-44	A022	MILLSTONE 1	* 58566	STATION BLACKOUT	02/94
	34.	A-64	A022	MILLSTONE 2	M68557	STATION BLACKOUT	04/94
	35.	A-44	A022	MILLSTONE 3	M68568	STATION BLACKOUT	10/93

	36.	A-44	A022	MONTICELLO	M68569	STATION BLACKOUT	
	37.	A-46	A022	NORTH ANNA 1	M68572	STATION BLACKOUT	12/94
	38.	A-44	A022	NORTH ANNA 2	M68573	STATION BLACKOUT	12/94
	39.	A-44	A022	PALISADES	M68578	STATION BLACKOUT	12/94
	40.	A-44	A022	PALO VERDE 1	M68579	STATION BLACKOUT	10/93
	41.	A-44	A022	PALO VERDE 2	M68580	STATION BLACKOUT	11/93
	42.	A-44	A022	PALO VERDE 3	M68581	STATION BLACKOUT	11/94
	43.	A-44	A022	PEACH BOTTOM 2	M68582	STATION BLACKOUT	04/94
	44.	A-44	A022	PEACH BOTTOM 3	M68583	STATION BLACKOUT	10/94
	45.	A-44	AG22	PERRY 1	M68584	STATION BLACKOUT	10/94
	46.	A-44	A022	QUAD CITIES 1	M68590	STATION BLACKOUT	07/94
	47.	A-44	A022	QUAD CITIES 2	M68591	STATION BLACKOUT	12/95
	48.	A-44	A022	RIVER BEND 1	M68593	STATION BLACKOUT	12/95
Œ	49.	A-44	A022	ROBINSON 2	M68595	STATION BLACKOUT	03/94
4	50.	A-44	A022	SALEM 1	M68596	STATION BLACKOUT	11/93
	51.	A-44	A022	SALEM 2	M68597	STATION BLACKOUT	01/94
	52.	A-44	A022	SAN ONOFRE 2	M68599	STATION BLACKOUT	01/94
	53.	A-44	A022	SAN ONOFRE 3	M68600	STATION BLACKOUT	09/94
	54.	A-44	A022	SEQUOYAH 1	M68603	STATION BLACKOUT	09/94
	55.	A-44	A022	SEQUOYAH 2	M68604	STATION BLACKOUT	06/94
	56.	A-44	A022	SURRY 1	M68611	STATION BLACKOUT	06/94
	57.	A-44	A022	SURRY 2	M68612	STATION BLACKOUT	01/96
	58.	A-44	A022	SUSQUEHANNA 1	M68613	STATION BLACKOUT	05/96
	59.	A-44	A022	SUSQUEHANNA 2	M68614	STATION BLACKOUT	06/94
	60.	A-44	A022	VOGTLE 1	M68621	STATION BLACKOUT	06/94
	61.	A-44	A022	VOGTLE 2	M73447	STATION BLACKOUT	02/94
	62.	A-44	A022	WASHINGTON MUCLEAR 2	M68626	STATION BLACKOUT	02/94
	63.	A-44	A022	WATERFORD 3	M68623	STATION BLACKOUT	06/94
	64.	A-46	8105	ARKANSAS 1	M69426	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	06/94
	65.	A-46	8105	ARKAHSAS 2	M69427	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	66.	A-46	8105	BEAVER VALLEY 1	M69428	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	67.	A-46	8105	BIG ROCK POINT 1	M69429	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	68.	A-46	8105	BROWNS FERRY 1	M59430		07/95
	69.	A-46	8105	BROWNS FERRY 2	M69431	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/97
	70.	A-46	8105	BROWNS FERRY 3	M69432		07/96
					11011136	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/96

	71.	A-46	B105	BRUNSWICK 1	M69433	SEISMIC QUALIFICATION OF FOUNTMENT IN OPERATING PLANTS	06/95
	72.	A-46	8105	BRUNSWICK 2	M69434	SEISHIC CHALIFICATION OF ENU. MENT IN OPERATING PLANTS	10/95
	73.	A-46	B105	CALVERT CLIFFS 1	M69435	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/96
	74.	A-46	B105	CALVERT CLIFFS 2	M69436	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/96
	75.	A-46	8105	COOK 1	M69437	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	76.	A-46	B105	COOK 2	M69438	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	77.	A-46	B105	COOPER STATION	M69439	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	78.	A-46	B105	CRYSTAL RIVER 3	M69440	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	12/95
	79.	A-46	B105	DAVIS-BESSE 1	969441	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	09/95
	80.	A-46	8105	DRESDEN 2	M69442	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	81.	A-46	B105	DRESDEN 3	M69443	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	82.	A-46	B105	DUARE ARNOLD	M69444	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	83.	A-46	B105	FARLEY 1	M69445	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	05/95
B	84.	A-46	B105	FITZPATRICK	M69446	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	05/95
·S	85.	A-46	8105	FORT CALHOUN 1	M69447	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	09/95
	86.	A-46	8105	GINNA	M69449	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	05/95
	87.	A-46	B105	HADDAM NECK	M69450	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/93
	88.	A-46	8105	HATCH 1	M69451	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERSTING PLANTS	08/95
	89.	A-46	8105	HATCH 2	M69452	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERAT IG PLANTS	08/95
	90.	A-46	8105	INDIAN POINT 2	M69453	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	91.	A-46	8105	INDIAN POINT 3	M69454	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	92.	A-46	B105	KEWAUNEE	M69455	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	93.	A-46	B105	MILLSTONE 1	N69458	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	08/96
	94.	A-46	8105	MILLSTONE 2	M69459	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	05/95
	95.	A-46	B105	MONTSCILL	M69460	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	96.	A-46	8105	NINE LILE POINT 1	M69461	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	05/95
	97.	A-46	8105	NORTH ANNA 1	M69462	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	12/94
	98.	A-46	B105	NORTH ANNA 2	M69463	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	06/95
	99.	A-46	8105	OCONEE 1	M69464	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	06/95
	100.	A-46	8105	OCONEE 2	M69465	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	06/95
	101.	A-46	B105	OCCNEE 3	M69466	SEISHIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	06/95
	102.	A-46	B105	OYSTER CREEK 1	M69467	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	09/95
	103.	A-46	8105	PALISADES	M69468	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	07/95
	104.	A-46	B105	PEACH BOTTOM 2	M69469	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	105.	A-46	B105	PEACH BOTTOM 3	M69470	SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS	11/95
	103.	A 40	0.00				

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106.
          A-66
                           8105
                                  PILGRIM 1
                                                           M69471
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
   107.
          A-46
                           8105
                                  POINT BEACH 1
                                                           M69472
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               08/95
    108.
          A-46
                           8105
                                  POINT BEACH 2
                                                           H69473
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               08/95
   109.
          A-46
                           8105
                                  PRAIRIE ISLAND 1
                                                           M69474
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
   110.
          A-46
                           8105
                                  PRAIRIE ISLAND 2
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                           M69475
                                                                                                                                               11/95
   111.
          A-46
                           B105
                                  QUAD CITIES 1
                                                           M69476
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
   112.
          A-46
                           8105
                                  QUAD CITIES 2
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                           M69477
                                                                                                                                               11/95
   113.
          A-46
                           8105
                                  ROBINSON 2
                                                           M69478
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               12/94
   114.
          A-46
                           8105
                                  SALEM 1
                                                           M69479
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
   115.
          A-46
                           B105
                                  SALEN Z
                                                           M69480
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
   116.
          A-46
                           8105
                                  ST LUCIE 1
                                                           M69483
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               12/93
   117.
          A-46
                           B105
                                  SURRY 1
                                                           M69484
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
   118.
          A-46
                           8105
                                  SURRY 2
                                                           M69485
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
D 119.
          A-46
                          8105
                                  THREE MILE ISLAND 1
                                                           M69486
                                                                    SEICNIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               12/95
O 120.
          A-46
                          8105
                                  TURKEY POINT 3
                                                           M68303
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               12/93
   121.
          A-46
                          B105
                                  TURKEY POINT 4
                                                           M68304
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               12/93
   122.
          A-46
                          B105
                                  VERMON YANKEE 1
                                                           M64-90
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               07/95
   123.
          A-46
                          8105
                                  ZION 1
                                                          M69492
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/95
          A-46
   124.
                          B105
                                  ZION 2
                                                          M69493
                                                                    SEISMIC QUALIFICATION OF EQUIPMENT IN OPERATING PLANTS
                                                                                                                                               11/05
   125.
          A-47
                          8113
                                  BROWNS FERRY 1
                                                          M74915
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               U7/97
   126.
          A-47
                          8113
                                  BROWNS FERRY 3
                                                          M74917
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/95
   127.
          A-47
                          B113
                                  CALVERT CLIFFS 1
                                                          H74923
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               05/94
   128.
          A-47
                          B113
                                  CALVERT CLIFFS 2
                                                          M74924
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/94
   129.
          A-47
                          8113
                                 COOPER STATION
                                                          M74932
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               12/93
   130.
          A-47
                                 CRYSTAL RIVER 3
                          B113
                                                          M74933
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/94
   131.
          A-47
                          B113
                                 DRESDEN 2
                                                          M74937
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               01/94
   1.2.
          A-47
                          8113
                                 DRESDEN 3
                                                          M74938
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               01/94
   133.
         A-47
                          B113
                                 FITZPATRICK
                                                          M74943
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               12/93
   134.
          A-47
                          8113
                                 FORT CALHOUN 1
                                                          M74944
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               12/93
   135.
         A-47
                          B113
                                 HATCH 1
                                                          M74949
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/94
   136.
          A-47
                          B113
                                 HATCH 2
                                                          M74950
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/94
  137
         A-47
                          8113
                                 LASALLE 1
                                                          M74955
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                                 1
   138.
         A-47
                          B113
                                 LASALLE 2
                                                          M74956
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
   339.
         A-47
                          8113
                                 MILLSTONE 1
                                                          M74962
                                                                    SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/94
  140.
         A-47
                          8113
                                 MILLSTONE 2
                                                          M74963
                                                                   SAFETY IMPLICATION OF CONTROL SYSTEMS
                                                                                                                                               06/94
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			B113	NINE MILE POINT 1	M74966	SAFETY IMPLICATION OF CONTROL SYSTEMS	12/93
	141.	A-47	8113	NINE MILE POINT 2	M74967	SAFETY IMPLICATION OF CONTROL SYSTEMS	12/93
	42.	A-47	8113	OCONEE 1.	M74970	SAFETY IMPLICATION OF CONTROL SYSTEMS	06/94
	143.	A-47	B113	OCONEE 2	M74971	SAFETY IMPLICATION OF CONTROL SYSTEMS	96/94
	144.	A-47	B113	OCONEE 3	M74972	SAFETY IMPLICATION OF CONTROL SYSTEMS	06/94
	145.	A-47		OYSTER CREEK 1	M74973	SAFETY IMPLICATION OF CONTROL SYSTEMS	12/94
	146.	A-47	B113	PALISADES	M74974	SAFETY IMPLICATION OF CONTROL SYSTEMS	10/93
	147.	A-47	8113	PEACH BOTTOM 2	M74978	SAFETY IMPLIL'TION OF CONTROL SYSTEMS	04/94
	148.	A-47	8113	PEACH BOTTOM 3	M74979	SAFETY IMPLICATION OF CONTROL SYSTEMS	04/94
	149.	A-47	8113	PILGRIM 1	M74981	SAFETY IMPLICATION OF CONTROL SYSTEMS	12/93
	150.	A-47	8113	POINT BEACH 1	M74982	SAFETY IMPLICATION OF CONTROL SYSTEMS	06/94
	151.	A-47	B113	POINT BEACH 2	M74983	SAFETY IMPLICATION OF CONTROL SYSTEMS	06/94
	152. 153.	A-47	B113	QUAD CITIES 1	M74986	SAFETY IMPLICATION OF CONTROL SYSTEMS	1
			8113	QUAD CITIES 2	M74987	SAFETY IMPLICATION OF CONTROL SYSTEMS	1
w	154.	A-47	B113	SAN ONOFRE 2	M74994	SAFETY IMPLICATION OF CONTROL SYSTEMS	05/94
7	155.	A-47	8113	SAN ONOFRE 3	N74995	SAFETY IMPLICATION OF CONTROL SYSTEMS	05/94
	156.	A-47	B113	ST LUCIE 1	M75002	SAFETY IMPLICATION OF CONTROL SYSTEMS	07/94
		A-47	B113	ST LUCIE 2	H75003	SAFETY EMPLICATION OF CONTROL SYSTEMS	07/94
	158.	A-67	8113	TURKEY POINT 3	M75011	SAFETY INPLICATION OF CONTROL SYSTEMS	04/94
	160.	A-47	B113	TURKEY POINT 4	M75012	SAFETY IMPLICATION OF CONTROL SYSTEMS	04/94
	161.	A-47	8113	WATERFORD 3	M75016	SAFETY IMPLICATION OF CONTROL SYSTEMS	01/94
	162.	A-47	B113	ZION 1	M75022	SAFETY IMPLICATION OF CONTROL SYSTEMS	12/93
	163.	A-47	B113	Z10N 2	M75023	SAFETY IMPLICATION OF CONTROL SYSTEMS	12/93
	164.	A-48	5003	CLINTON 1	M81719	HYDROGEN CONTROL MEASURES AND EFFECTS OF HYDROGEN BURNS	03/94
	165.	A-48	5003	COOK 1	M49520	HYDROGEN CONTROL MEASURES AND EFFECTS OF HYDROGEN BURNS	12/93
	166.	A-48	5003	COOK 2	H49519	HYDROGEN CONTROL MEASURES AND EFFECTS OF HYDROGEN BURNS	12/93
	167.	A-48	5003	GRAND GULF 1	M77024	HYDROGEN CONTROL MEASURES AND EFFECTS OF HYDROGEN BURNS	12/93
	168.	A-48	5003	PERRY 1	M66121	HYDROGEN CONTROL MEASURES AND EFFECTS OF HYDROGEN BURNS	12/93
	169.	A-48	se03	RIVER BEND 1	M59714	HYDROGEN CONTROL MEASURES AND EFFECTS OF HYDROGEN BURNS	02/94
	170.	A-7	D001	BROWNS FERRY 1	M07929	MARK I LONG-TERM PROGRAM	07/97
	171.	A-7	0001	BROWNS FERRY 3	M07931	MARK I LONG-TERM PROGRAM	06/95
	172.	A-9	A020	BROAMS FERRY 1	M59072	ATWS	07/97
	173.	A-9	A020	BROWNS FERRY 3	M59074	ATWS	06/95
	174.	A-9	A020	DRESDEN 3	M59090	ATWS	03/94
	175.		A020	LASALLE 2	M59108	ATWS	11/93

11/93

ATUS MS9132 MS9133 QUAD CITIES 1 A020 A020 176.

# Appendix C

# LISTING OF UNIMPLEMENTED GSI ITEMS BY ISSUE

# APPENDIX C

This appendix provides a detailed list, by issue, of the 158 GSI items not impleme red, along with the projected date for completing the item. Status and projected implementation dates are presented as of September 30, 1993.

							IMPL
		ISSUE	MPA	PLANT	TAC	TITLE	DATE
	1.	124	5001	CRYSTAL RIVER 3	M67802	AUXILIARY FEEDWATER SYSTEM RELIABILITY	10/93
	2.	40	8065	BROWNS FERRY 1	M43727	SAFETY CONCERNS ASSOCIATED WITH PIPE BREAKS IN BUR SCRAM SYSTEM	07/97
	3.	40	8065	BROWNS FERRY 3	M43736	SAFETY CONCERNS ASSOCIATED WITH PIPE BREAKS IN BWR SCRAM SYSTEM	06/95
	4.	4"	8058	BROWNS FERRY 3	M51014 _	BWR SCRAM DISCHARGE VOLUME SYSTEMS	06/95
	5.	67.3.3	A017	BEAVER VALLEY 1	M51071	IMPROVED ACCIDENT MONITORING	02/94
	6.	67.3.3	A017	BROWNS FERRY 1	M51073	IMPROVED ACCIDENT MONITORING	07/97
	7.	67.3.3	A017	BROWNS FERRY 3	M51075	IMPROVED ACCIDENT MONITGRING	06/95
	8.	67.3.3	A017	CALVERT CLIFFS 1	M51078	IMPROVED ACCIDENT MONITORING	06/94
	9.	67.3.3	A017	CALVERT CLIFFS 2	M51079	IMPROVED ACCIDENT MONITORING	06/94
	10.	67.3.3	A017	COOK 1	M51080	IMPROVED ACCIDENT MONITORING	10/93
	11.	67.3.3	A017	COOK 2	M51081	IMPROVED ACCIDENT MONITORING	10/93
	12.	67.3.3	A017	COOPER STATION	M51082	IMPROVED ACCIDENT MONITORING	11/94
	13.	67.3.3	A017	FERMI 2	M59620	MPROVED ACCIDENT MONITORING	12/94
0	14.	67.3.3	A017	FORT CALHOUN 1	M51091	IMPROVED ACCIDENT MONITORING	11/93
à	15.	67.3.3	A017	GINNA	M51093	IMPROVED ACCIDENT MONITORING	12/93
	16.	67.3.3	A017	GRAND GULF 1	M51094	IMPROVED ACCIDENT MONITORING	11/93
	17.	67.3.3	A017	HADDAM NECK	M51095	IMPROVED ACCIDENT MONITORING	12/94
	18.	67.3.3	A017	HATCH 1	M51096	IMPROVED ACCIDENT MONITORING	12/94
	19.	67.3.3	A017	HATCH 2	M51097	IMPROVED ACCIDENT MONITORING	12/94
	20.	67.3.3	A017	INDIAN POINT 2	M51098	IMPROVED ACCIDENT MONITORING	12/93
	21.	67.3.3	A017	KEWAUNEE	M51100	IMPROVED ACCIDENT MONITORING	10/93
	22.	67.3.3	A017	LASALLE 1	M51102	IMPROVED ACCIDENT MONITORING	1
	23.	67.3.3	A017	LASALLE 2	M56407	IMPROVED ACCIDENT MONITORING	1
	24.	67.3.3	A017	MILLSTONE 1	M51106	IMPROVED ACCIDENT MONITORING	11/93
	25.	67.3.3	A017	MILLSTONE 3	M65327	IMPROVED ACCIDENT MONITORING	12/93
	26.	67.3.3	A017	NINE MILE POINT 2	M79172	IMPROVED ACCIDENT MONITORING	10/93
	27.	67.3.3	A017	OYSTER CREEK 1	M51115	IMPROVED ACCIDENT MONITORING	12/94
	28.	67.3.3	A017	PERRY 1	M79010	IMPROVED ACCIDENT MONITORING	1
	29.	67.3.3	A017	QUAD CITIES 1	M51124	IMPROVED ACCIDENT MONITORING	05/94
	30.	67.3.3	A017	QUAD CITIES 2	M51125	IMPROVED ACCIDENT MONITORING	05/94
	31.	67.3.3	A017	SAN ONOFRE 2	M51131	IMPROVED ACCIDENT MONITORING	11/93
	32.	67.3.3	A017	SAN ONOFRE 3	M51132	IMPROVED ACCIDENT MONITORING	11/93
	33.	67.3.3	A017	SOUTH TEXAS 1	M63480	IMPROVED ACCIDENT MONITORING	02/94
	34.	67.3.3	A017	SOUTH TEXAS 2	M77956	IMPROVED ACCIDENT MONITORING	02/94
	35.	67.3.3	A017	ST LUCIE 1	M51135	IMPROVED ACCIDENT MONITORING	09/96

	36.	67.3.3	A017	ST LUCIE 2	M51136	IMPROVED ACCIDENT MONITORING	09/95
	37.	67.3.3	A017	SUMMER 1	M51137	IMPROVED ACCIDENT MONITORING	01/94
	38.	67.3.3	A017	ZION 1	M51367	IMPROVED ACCIDENT MONITORING	10/93
	39.	67.3.3	A017	ZION 2	M51368	IMPROVED ACCIDENT-MONITORING	10/93
	40.	70	8114	BEAVER VALLEY 1	M77328	PORV AND BLOCK VALVE RELIABILITY	03/94
	41.	70	8114	BEAVER VALLEY 2	M77329	PORV AND BLOCK VALVE RELIABILITY	03/94
	42.	70	8114	BRAIDWOOD 1	M77332	PORV AND BLOCK VALVE RELIABILITY	,
	43.	70	8114	BRAIDWOOD 2	M77333	PORY AND BLOCK VALVE RELIABILITY	,
	44.	70	8114	CALVERT CLIFFS I	M77337	PORV AND BLOCK VALVE RELIABILITY	12/93
	45.	70	8114	CALVERT CLIFF! 2	M77338	PORV AND BLOCK VALVE RELIABILITY	12/93
	46.	70	8114	COOK 1	M77343	PORV AND BLOCK VALVE RELIABILITY	11/93
	47.	70	8114	COOK 2	M77344	PORV AND BLOCK VALVE RELIABILITY	11/93
	48.	70	8114	CRYSTAL RIVER 3	M77345	PORV AND BLOCK VALVE RELIABILITY	12/93
0	49.	70	8114	FORT CALHOUN 1	M77351	PORV AND BLOCK VALVE RELIABILITY	12/93
4	50.	70	8114	GINNA	M77352	PORV AND BLOCK VALVE RELIABILITY	01/94
	51.	70	8114	HADDAM NECK	H77353	PORV AND BLOCK VALVE RELIABILITY	10/93
	52.	70	B114	INDIAN POINT 2	K77355	PORV AND BLOCK VALVE RELIABILITY	01/94
	53.	70	B114	INDIAN POINT 3	M77356	PORV AND BLOCK VALVE RELIABILITY	12/93
	54.	70	8114	KEWAUNEE	H77357	PORV AND BLOCK VALVE RELIABILITY	12/93
	55.	70	B114	MCGUIRE 1	M77359	PORV AND BLOCK VALVE RELIABILITY	01/94
	56.	70	8114	MCGUIRE 2	M77360	PORV AND BLOCK VALVE PELIABILITY	01/94
	57.	70	B114	MILLSTONE 2	M77361	PORV AND BLOCK VALVE RELIABILITY	01/94
	58.	70	8114	MILLSTONE 3	M77362	PORV AND BLOCK VALVE RELIABILITY	11/93
	59.	70	8114	NORTH ANNA 1	M77363	PORV AND BLOCK VALVE RELIABILITY	12/93
	60.	70	8114	NORTH ANNA 2	M77364	PORV AND BLOCK VALVE RELIABILITY	12/93
	61.	70	8114	OCONEE 1	M77365	PORV AND BLOCK VALVE RELIABILITY	01/94
	62.	70	8114	OCONEE 2	M77366	PORY AND BLOCK VALVE RELIABILITY	01/94
	63.	70	8114	OCONEE 3	M77367	PORV AND BLOCK VALVE RELIABILITY	01/94
	64.	70	8114	PALISADES	M77368	PORY AND BLOCK VALVE RELIABILITY	17/93
	65.	70	8114	POINT BEACH 1	M77369	PORV AND BLOCK VALVE RELIABILITY	04/94
	66.	70	8114	POINT BEACH 2	M77370	PORV AND BLOCK VALVE RELIABILITY	04/94
	67.	70	B114	ROBINSON 2	M77373	PORV AND BLOCK VALVE RELIABILITY	10/93
	68.	70	8114	SALEM 1	M77374	PORV AND BLOCK VALVE RELIABILITY	05/94
	69.	70	8114	SALEM 2	H77375	PORV AND BLOCK VALVE RELIABILITY	
	70.	70	B114	SOUTH TEXAS 1	M77380	PORV AND BLOCK VALVE RELIABILITY	05/94
						THE PROPERTY OF THE PROPERTY O	10/93

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	71.	70	B114	SOUTH TEXAS 2	H77381	PORV AND BLOCK VALVE RELIABILITY	10/93
	72.	70	8114	SUMMER 1	M77384	PORV AND BLOCK VALVE RELIABILITY	01/94
	73.	70	8114	SURRY 1	M77385	PORV AND BLOCK VALVE RELIABILITY	12/93
	74.	70	8114	SURRY 2	M77386	PORV AND BLOCK VALVE RELIABILITY	12/93
	75.	70	8114	TURKEY POINT 3	M77389	PORV AND BLOCK VALVE RELIABILITY	12/93
	76.	70	8114	TURKEY POINT 4	M77390	PORV AND BLOCK VALVE RELIABILITY	12/93
	77.	70	8114	ZION 1	M77397	PORV AND BLOCK VALVE RELIABILITY	12/93
	78.	70	8114	ZION 2	M77398	PORV AND BLOCK VALVE RELIABILITY	12/93
	79.	75 (8085)	8085	BROWNS FERRY 1	M53571	SALEM ATMS 1.2 DATA CAPABILITY	07/97
	80.	75 (8085)	8085	BROWNS FERRY 2	M53572	SALEM ATMS 1.2 DATA CAPABILITY	10/93
	81.	75 (8085)	8085	BROWNS FERRY 3	MS3573	SALEM ATMS 1.2 DATA CAPABILITY	06/95
	82.	75 (8090)	8090	CRYSTAL RIVER 3	M55351	SALEM ATWS 4.3 W AND B&W T.S.	10/93
	83.	75 (8091)	8091	CRYSTAL RIVER 3	M53953	SALEM ATWS 4.4 B&W TEST PROCEDURES	12/93
0	84.	75 (8093)	8093	BROWNS FERRY 1	M53964	SALEM ATWS 4.5.2 & 4.5.3 TEST ALTERNATIVES	07/97
Ċ	85.	75 (8093)	8093	BROWNS FERRY 3	M53966	SALEM ATMS 4.5.2 & 4.5.3 TEST ALTERNATIVES	96/95
	86.	94	8115	ARKANSAS Z	M77399	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	01/94
	87.	94	8115	BEAVER VALLEY 1	M77400	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	03/94
	88.	94	B115	BEAVER VALLEY 2	M77401	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	03/94
	89.	94	8115	CALVERT CLIFFS 1	M77407	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	90.	94	B115	CALVERT CLIFFS 2	M77408	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	91.	94	B115	COOK 1	M77413	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	11/93
	92.	94	8115	COOK 2	M77414	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	11/93
	93.	94	8115	FARLEY 1	M77419	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	94.	94	B115	FARLEY 2	M77420	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	95.	94	B115	FORT CALHOUN 1	M77421	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	96.	94	B115	GINNA	M77422	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	01/94
	97.	94	B115	HADDAM NECK	M77423	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	10/93
	98.	94	B115	INDIAN POINT 2	M77425	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	01/94
	99.	94	8115	INDIAN POINT 3	M77426	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	100.	94	8115	KEWAUNEE	977427	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93
	101.	94	B115	MAINE YANKEE	M77428	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	01/94
	102.	94	8115	MCGUIRE 1	M77429	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	01/94
	103.	94	8115	MCGUIRE 2	M77430	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	01/94
	104.	94	8115	MILLSTONE 2	M77431	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	10/93
	105.	94	8115	NORTH ANNA 1	M77433	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LWRS	12/93

12/02	44,07	04.704	04/96	10/93	05/94	05/94	10/93	10/93	01/94	12/53	12,93	12/93	12/93	12/93	12/93	10/94	16/10	56/90	12/93	12/93	03/64	03/94	12/93	12/93	03/95	12/93	11/93	11/93	07/95	10/93	96/10	11/94	11/94	11/94
ANNITIONAL LOW-TEND OWERDORGEN DOCTETION FOR LABOR	TOWN TENED ON CONDECENSE DOOR CONTENTS	COM-15MP OVERPRESSURE PROISELLON TON	LOW-TEMP, OVERPRESSURE PROTECTION FOR	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP, OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP, OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP, OVERPRESSIME PROTECTION FOR LURS	ADDITIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LARS	ADDITIONAL LOW-TEMP, OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP, OVERPRESSURE PROTECTION FOR LARS	ADD: TIONAL LOW-TEMP. OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LON-TEMP. OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP, OVERPRESSURE PROTECTION FOR LURS	ADDITIONAL LOW-TEMP. OVERPRESSIRE PROTECTION FOR LARS	LAR PRIMARY COOLANT SYSTEM PRESSURE ISOLATION VALVES	INSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	INSTRUMENT AIR SUPPLY SYSTEM PROBLEMS, AFFECTING SAFETY-RELATED EQUIPM	INSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING CAFETY-RELATED EQUIPM	INSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	INSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY RELATED EQUIPM	WSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-AELATED EQUIPM	MSTRIMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	NSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	MSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	NSTRUMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	KSTRUMENT AIR SUFPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	NSTRIMENT AIR SUPPLY SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPM	LOSS OF DECAY MEAT REMOVAL	OF DECAY HEAT REMOVAL	ICE WATER SYSTEM PROBLEMS AFFECTING SAFETY RELATED EQUIPMENT	ICE MATER SYSTEM PROBLEMS AFFECTING SAFETY RELATED EQUIPMENT	ICE MATER SYSTEM PROBLEMS AFFECTING SAFETY RELATED EQUIPMENT	ICE MATER SYSTEM PROBLEMS AFFECTING SAFETY RELATED EQUIPMENT
1004 7274				177446 ADD!	477447 ADD1	M77448 ADD!	N77455 ADD1	K77456 ADD1	M77459 ADDI	M77460 ADDI	M77461 ADDI	M77464 ADD:	M77465 ADD1	N77473 ADDI	100A A7474	M12916 LSR	H71631 INST	M71633 INST	M71641 INST	M71642 INST	M71653 INST	M71654 INST	M71679 INST	W71680 1WST	M71685 1MST	M71692 INST	M71706 INST	N71707 INST	M69731 LOSS	M69763 LOSS OF	W73969 SERVICE	M73970 SERVICE	N73971 SERVICE	N73972 SERVICE
ENDETH ANNA 7		- NO.	2	ROBINSON 2 M7	SALEM 1 N7	SALEN 2 N7	SOUTH TEXAS 1 M7	SOUTH TEXAS 2 M7	SUMMER 1 N7	SURRY 1	SURRY 2 M7	TURKEY POINT 3 M7	TURKEY POINT 4 M7	210M 1 M7	210W 2 N7	NADDAM NECK M1	BROWNS FERRY 1 N7	BROWNS FERRY 3 M7	CATAMBA 1 M7	CATAMBA 2 M7	DRESDEN 2 M7	DRESDEN 3 M7	MCGUIRE 1 M7	MCGUIRE 2 M7			OCUAD CITIES 1 M7	GUAD CITIES 2 M7	CALVERT CLIFFS 2 N6	PALO VERDE 2 N6	BRAIDWOOD 2 M7	BROWNS FERRY 1 M7	BROMNS FERRY 2 M7	BROWNS FERRY 3 M7
3115	2115	2118	8115	8115	8115	8115	8115	8115	8115	8115	8115	8115	8115	8115	8115	8045	8107	8107	8107	8107	8107	8107	8107	8107	8107	8107	8107	8107	1817	1817	1913	1913	1913	1913
8	70	8 1	%	76	76	76	76	%	%6	76	56	76	76	76	76	GL-80-014	GL-88-14	61-88-14	61-88-14	61-88-14	GL-88-14	GL-88-14	GL-88-14	51-88-14	61-88-14	GL-88-14	61-88-16	61-88-14	GL-88-17	GL-88-17	GL-89-13	61-89-13	61-89-13	GL-89-13
106	107	108	109.	110.	111.	112.	113.	114.	115.	116.	117.	118.	O 119.	9-150.	121.	122.	123.	124.	125.	126.	127.	128.	129.	150.	131.	132.	133.	134.	135.	136.	137.	138.	139.	140.

	141.	GL-89-13	£913	CALVERT CLIFFS 1	M73978	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	12/94
	142.	GL-89-13	L913	CALVERT CLIFFS 2	M73979	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	12/94
	143.	GL-89-13	L913	CATAWBA 1	M73980	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
	144.	GL-89-13	L913	CATAWBA 2	M73981	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
	145.	GL-89-13	L913	DRESDEN 3	M73996	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
	146.	GL-89-13	1913	GINNA	M74007	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	12/93
	147.	GL-89-13	L913	MAINE YANKEE	M74022	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	12/93
	148.	GL-89-13	L913	MCGUIRE 1	M74023	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	08/94
	149.	GL-89-13	L913	MCGJIRE 2	M74024	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	08/94
	150.	GL-89-13	L913	MILLSTONE 1	M74025	SERVICE W	ATER S	YSTEM	PROGLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	02/94
	151.	GL-89-13	L913	MILLSTONE 3	M74027	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
	152.	GL-89-13	L913	PERRY 1	M74043	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	12/93
	153.	GL-89-13	L913	QUAD CITIES 2	M74050	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
~	154.	GL-89-13	L913	WOLF CREEK 1	M74088	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
0	155.	GL-89-13	L913	Z10N 1	M74090	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
-	156.	GL-89-13	L913	ZION Z	M74091	SERVICE W	ATER S	YSTEM	PROBLEMS	AFFECTING	SAFETY	RELATED	EQUIPMENT	10/93
	157.	MPA-8023	8023	CRYSTAL RIVER 3	M10017	DEGRACED (	GRID Y	OLTAGE						12/93
	158.	MPA-8023	8023	MILLSTONE 1	M60207	DEGRADED (	GRID V	OLTAGE						10/93

# Appendix D

# LISTING OF OTHER UNIMPLEMENTED MPA ITEMS BY ISSUE

# APPENDIX D

This appendix provides a detailed list, by issue, of the 941 MPA items not implemented, along with the projected date for completing the item. Status and projected implementation dates are presented as of September 30, 1993.

							IMPL
		!SSLE	MPA	PLANT	TAC	TITLE	DATE
	1.	BL-88-02	X802	COOK 1	M67301	STEAM GENERATOR TUBE RUPTURE (888-02) (OLD MPA 8099)	06/94
	2.	BL-88-03	X803	BROWNS FERLY 1	M73852	GE HFA RELAYS (B88-03)	07/97
	3.	BL-88-03	X803	BROWNS FERRY 3	H73854	GE HFA RELAYS (B88-03)	06/95
	4.	BL-88-04	X804	BROWNS FERRY 1	M69888	SI PUMP FAILURE (888-04) (OLD MPA 8103)	07/97
	5.	BL-88-04	X804	BROWNS FERRY 3	M69890	SI PUMP FAILURE (B88-04) (OLD MPA B103)	06/95
	6.	8L-88-04	x804	NINE MILE POINT 1	M69940	SI PUMP FAILURE (888-04) (OLD MPA 8103)	03/95
	7.	BL-88-07	x807	BROWNS FERRY 1	M72805	POWER OSCILLATIONS IN BUR'S (888-07)	07/97
	8.	SL-88-07	x807	BROWNS FERRY 3	M72769	POWER OSCILLATIONS IN BWR'S (888-07)	06/95
	9.	BL-88-08	X808	BRAIDWOOD 1	M69602	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA B107)	04/94
	10.	8L-88-08	X808	BRAIDWOOD 2	M69603	THERMAL STRESS IN PIPING CONNECTED TO RCS (B88-08)(OLD MPA B107)	10/93
	11.	BL 88-08	X808	BYRON 1	M69609	THERMAL STRESS IN PIPING COMNECTED TO RCS (888-08)(OLD MPA 8127)	10/93
	12.	BL-88-08	X808	BYRON 2	M69610	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA 8107)	10/93
	13.	BL-88-08	X808	COOK 1	M69618	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA \$107)	12/93
O	14.	8L-88-08	X808	COOK 2	M69619	THERMAL STRESS IN PIPING COMMECTED TO RCS (888-08)(OLD MPA 8107)	12/93
ώ	15.	BL-88-08	X808	KEWAUNEE	M69643	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA 8107)	1
	16.	BL-88-08	X808	NINE MILE MOINT 1	M69655	THERMAL STRESS IN PIPING CONNECTED TO RCS (878-08)(OLD MPA 8107)	03/95
	17.	81-88-08	X808	PALO VERDE 1	M69664	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA 8107)	1
	18.	BL-88-08	X808	PALO VERDE 2	M69665	THERMAL STRESS IN PIPINS CONNECTED TO RCS (888-08)(OLD MPA 8107)	1
	19.	BL-88-08	X808	PALO VERDE 3	M69666	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLC MPA 8107)	/
	20.	8L-88-08	808x	SALEM 1	M69680	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA 8107)	12/93
	21.	BL-88-08	X808	SALEM 2	M69681	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA 8107)	12/93
	22.	BL-88-08	X808	SOUTH TEXAS 1	M69689	THERMAL STRESS IN PIPING CONNECTED TO RCS (888-08)(OLD MPA 8107)	12/93
	23.	BL-88-10	X810	POINT BEACH 1	M71338	NONCOMFORMING MOLDED-CASE CIRCUIT BREAKERS (B88-10)	12/93
	24.	BL-88-10	X810	POINT BEACH 2	M71339	NONCONFORMING MOLDED-CASE CIRCUIT BREAKERS (888-10)	12/93
	25.	BL-88-11	X811	ARKANSAS 2	M72109	THERMAL STRATIFICATION IN PZR SURGE LINE (B88-11)	10/93
	26.	8L-88-11	X811	BRAIDWOOD 2	M72115	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	10/93
	27.	BL-88-11	X811	BYRON 1	M72116	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	10/93
	28.	BL-88-11	X811	SYRON 2	M72117	THERMAL STRATIFICATION IN PZR SURGE LINE (B88-11)	10/93
	29.	8L-88-11	X811	CALVERT CL:7FS 1	M72119	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	02/94
	30.	BL-88-11	X811	CALVERT CLIFFS 2	M72120	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	02/94
	31.	BL-88-11	X811	CRYSTAL RIVER 3	M72127	THERMAL STRATIFICATION IN PZR SURGS LINE (B88-11)	10/93
	32.	BL-88-11	X811	DAVIS-BESSE 1	H72128	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	12/94
	33.	BL-88-11	X811	FORT CALHOLIN 1	M72134	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	12/93
	34.	BL-88-11	X811	MAINE YANKEE	M72141	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	12/93
	35.	BL-88-11	X811	OCONEE 1	M72148	THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)	12/93

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12/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LIME (888-11)
                                                         M72149
                          X811
                                 OCONEE 2
         BL-88-11
    36.
                                                                                                                                             12/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72150
                          X811
                                 OCONEE 3
    37.
         BL-88-11
                                                                                                                                             11/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LIME (888-11)
                                                         M72151
                          X811
                                 PALISADES
         BL-88-11
    38.
                                                                                                                                             12/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72152
                                 PALO VERDE 1
    39.
         BL-88-11
                          X811
                                                                                                                                             12/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72153
                          X811
                                 PALO VERDE ?
    40.
         BL-88-11
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (886-11)
                                                                                                                                             12/93
                          X811
                                 PALO VERDE 3
                                                         H72154
         BL-88-11
    41.
                                                                                                                                             10/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (B88-11)
                                                         M72155
                                 POINT BEACK 1
                          x811
    42.
         BL-88-11
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                                                                                                             10/93
                                                         M72156
                                 POINT BEACH 2
                          X811
    43.
         8L-88-11
                                                                                                                                             01/94
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72160
                                 ROBINSON 2
    44.
         8L-88-11
                          x811
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (B88-11)
                                                                                                                                             12/93
                                                         M72161
         BL-88-11
                          X811
                                 SALEM 1
    45.
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                                                                                                             11/93
                                                         M72164
                          X811
                                 SAN ONOFRE 2
    46.
         BL-88-11
                                                                                                                                             11/93
                                                                  THEPHAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72160
                          X811
                                 SAN ONOFRE 3
    47.
         BL-88-11
                                                                                                                                             04/94
                                                                   THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72167
                                 SEQUOYAH 2
    48.
         SL-88-11
                          X811
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                                                                                                              12/93
                                                         H72174
   49.
         BL-88-11
                          X811
                                 THREE MILE ISLAND 1
O
                                                                                                                                              12/93
                                                                  THERMAL STRATIFICATION IN PZR SURGE LINE (888-11)
                                                         M72180
   50.
         BL-88-11
                          X811
                                 WATERFORD 3
                                                                                                                                              12/94
                                                                  FAILURE OF WEST STEAM GENERATOR TUBE MECHANICAL PLUGS (889-01)
                                                         A73164
         BL-89-01
                          X901
                                 COOK 1
    51.
                                                                  STRESS CORR CRACKING OF ANCHOR DARLING CK VALVE BOLTING (689-02)
                                                                                                                                              05/94
                                                         M74298
         BL-89-02
                          X902
                                 PRAIRIE ISLAND 1
    52.
                                                                  STRESS CORR CRACKING OF ANCHOR DARLING CK VALVE BOLTING (889-02)
                                                                                                                                              11/93
                                                         M74299
    53.
         BL-89-02
                          X902
                                 PRAIRIE ISLAND 2
                                                                   STRESS CORR CRACKING OF ANCHOR DARLING CK VALVE BOLTING (889-02)
                                                                                                                                              06/94
                                 TURKEY POINT 3
                                                         M74325
    54.
         BL-89-02
                          x902
                                                                                                                                               1
                                                         M83839
                                                                   THERMO-LAG (BULLETIN 92-01)
    55.
         BL-92-01
                          X201
                                 ARKANSAS 1
                                                                                                                                              06/95
                                                         M83840
                                                                   THERMO-LAG (BULLETIN 92-01)
                                 ARKANSAS 2
    56.
         BL-92-01
                          X201
                                                                                                                                              12/99
    57.
         BL-92-01
                          x201
                                 BEAVER VALLEY 1
                                                         M83841
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                                                                                              12/99
                                                         M83842
    58.
         BL-92-01
                          X201
                                 BEAVER VALLEY 2
                                                                                                                                                1
                                                         M83846
                                                                   THERMO-LAG (BULLETIN 92-01)
    59.
         BL-92-01
                          X201
                                 SRAIDWOOD 1
                                                                                                                                                1
                                                         M83847
                                                                   THERMO-LAG (BULLETIN 92-01)
    60.
         BL-92-01
                          X201
                                 BRAIDWOOD 2
                                                         M83848
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                                                                                              07/97
    61.
         BL-92-01
                          X201
                                 BROWNS FERRY 1
                                                                   THERMO-LAG (SULLETIN 92-01)
         8L-92-01
                                                         M83849
                                                                                                                                              12/93
    62.
                          X201
                                 BROWNS FERRY 2
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                                                                                              03/9%
                                                         M83850
    63.
         BL-92-01
                          X201
                                 BROWNS FERRY 3
                                                                   THERMO-LAG (BULLETIN 92-01)
    64.
         BL-92-01
                          X201
                                 BYRON 1
                                                         M83853
    65.
         8L-92-01
                          X201
                                 BYRON 2
                                                         M83854
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                                                                                                1
         BL-92-01
                                                         M83860
                                                                   THERMO-LAG (BULLETIN 92-01)
    66.
                          X201
                                 CLINTON 1
                                                                                                                                              06/94
         BL-92-01
                                 COMARCHE PERE 1
                                                         M83861
                                                                   THERMO-LAG (BULLETIN 92-01)
    67.
                          X201
                                                                                                                                              12/93
         BL-92-01
    68.
                          X201
                                 COOK 1
                                                          M83863
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                                                                                              12/93
    69.
         BL-92-01
                          X201
                                 COOK 2
                                                          #83864
                                                                   THERMO-LAG (BULLETIN 92-01)
                                                                                                                                              12/93
    70.
         BL-92-01
                          X201
                                 DAVIS-BESSE 1
                                                          M83867
                                                                   THE THO-LAG (BULLETIN 92-01)
                                                                                                                                              12/94
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71. BL-92-01
                          X201
                                 DUANE ARNOLD
                                                         M83872
                                                                  THERMO-LAG (BULLETIN 92-01)
    72. 8L-92-01
                          X201
                                 FERMI 2
                                                         M83875
                                                                  THERMO-LAG (BULLETIN 92-01)
    73. BL-92-01
                          X201
                                 GRAND GULF 1
                                                         M83879
                                                                  THERMO-LAG (BULLETIN 92-01)
    74. BL-92-01
                          X201
                                 HARRIS 1
                                                         M83881
                                                                  THERMO-LAG (BULLETIN 92-01)
    75. BL-92-01
                          X201
                                 HATCH 1
                                                         M83832
                                                                  THERMO-LAG (BULLETIN 92-01)
    76.
         BL-92-01
                          X201
                                 HATCH 2
                                                         M83883
                                                                  THERMO-LAG (BULLETIN 92-01)
    77.
          BL-92-01
                          X201
                                 INDIAN POINT 2
                                                         M83885
                                                                  THERMO-LAG (BULLETIN 92-01)
    78.
          BL-92-01
                          X201
                                 LASALLE 1
                                                         M83888
                                                                  THERMO-LAG (BULLETIN 92-01)
    79.
         BL-92-01
                          X201
                                 LASALLE 2
                                                         M83889
                                                                  THERMO-LAG (BULLETIN 92-01)
    80.
          BL-92-01
                          X201
                                 MCGUIRE 1
                                                         M83893
                                                                  THERMO-LAG (BULLETIN 92-01)
    81.
          BL-92-01
                          X201
                                 MCGUIRE 2
                                                         M83894
                                                                  THERMO-LAG (BULLETIN 92-01)
    82.
          BL-92-01
                          X201
                                 MILLSTONE 1
                                                         M83895
                                                                  THERMO-LAG (BULLETIN 92-01)
    83.
         BL-92-01
                          X201
                                 NINE MILE POINT 1
                                                         M83899
                                                                  THERMO-LAG (BULLETIN 92-01)
O
   84.
         BL-92-01
                          X201
                                 NINE WILE POINT 2
                                                         M83900
                                                                  THERMO-LAG (BULLETIN 92-01)
Un
   85.
         BL-92-01
                          X201
                                 NORTH ANNA 1
                                                         M83901
                                                                  THERMO-LAG (BULLETIN 92-01)
    86.
         BL-92-01
                          X201
                                 NORTH ANNA 2
                                                         M83902
                                                                  THERMO-LAG (BULLETIN 92-01)
    87. BL-92-01
                          X201
                                PALISADES
                                                        M83907
                                                                  THERMO-LAG (BULLETIN 92-01)
    88.
         BL-92-01
                          X201
                                PALO VERDE 1
                                                         M83908
                                                                  THERMO-LAG (BULLETIM 92-01)
    89.
         BL-92-01
                          X201
                                PALO VERDE 2
                                                        M83909
                                                                  THERMO-LAG (BULLETIN 92-01)
    90.
        BL-92-01
                          X201
                                PALC VE "OF 3
                                                        M83910
                                                                  THERMO-LAG (BULLETIN 92-01)
   91.
         BL-92-01
                          X201
                                PEACH BOTTOM 2
                                                        M83911
                                                                  THERMO-LAG (BULLETIN 92-01)
   92. BL-92-01
                          X201
                                PEACH BOTTOM 3
                                                        M83912
                                                                 THERMO-LAG (BULLETIN 92-01)
   93.
         BL-92-01
                          X201
                                PRAIRIE ISLAND 1
                                                        M83917
                                                                 THERMO-LAG (BULLETIN 92-01)
   94. BL-92-01
                          X201
                                PRAIRIE ISLAND 2
                                                        M83918
                                                                 THERMO-LAG (BULLETIN 92-01)
         BL-92-01
                          X201
                                SAN ONOFRE 2
                                                        M83928
                                                                 THERMO-LAG (BULLETIN 92-01)
   96.
         BL-92-01
                          X201
                                SAN ONOFRE 3
                                                        #83929
                                                                 THERMO-LAG (BULLETIN 92-01)
   97.
         BL-92-01
                         X201
                                SURRY 1
                                                        M83936
                                                                 THERMO-LAG (BULLETIN 92-01)
   98.
         BL-92-01
                          X201
                                SURRY 2
                                                        M83937
                                                                 THERMO-LAG (BULLETIN 92-01)
   99.
         81-92-01
                         X201
                                SUSQUEHANNA 1
                                                        M83938
                                                                 THERMO-LAG (BULLETIN 92-01)
   100.
         BL-92-01
                         X201
                                SUSQUEHANNA 2
                                                        M83939
                                                                 THERMO-LAG (BULLETIN 92-01)
   101.
         BL-92-01
                         X201
                                THREE MILE ISLAND 1
                                                        M83940
                                                                 THERMO-LAG (BULLETIN 92-01)
   102.
         BL-92-01
                         X201
                                VERMONT YANKEE 1
                                                        M83944
                                                                 THERMO-LAG (BULLETIN 92-01)
   103.
         BL-92-01
                         X201
                                VOGTLE 1
                                                        M83945
                                                                 THERMO-LAG (BULLETIN 92-01)
   104.
         BL-92-01
                         X201
                                VOGTLE 2
                                                        M83946
                                                                 THERMO-LAG (BULLETIN 92-01)
   105.
        BL-92-01
                         X201
                                WATERFORD 3
                                                        M83947
                                                                 THERMO-LAG (BULLETIN 92-01)
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12/93 12/93 12/94 12/93 12/95 12/94 12/93 1 06/94 12/93 12/93 12/93 12/93 1 12/94 12/94 1 12/93 12/93 12/93 12/93 12/93 12/93 12/93 12/93

1

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1
                                                                 THERMO-LAG (BULLETIN 92-01)
                                                        M83951
                                WOLF CREEK 1
   106. BL-92-01
                         X201
                                                                                                                                            1
                                                                 DERRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                        386526
   107.
         BL-93-02
                         ¥302
                                ARKANSAS 1
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                          12/93
                         X302
                                BEAVER VALLEY 1
                                                        #56528
         BL-93-02
   108.
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                          12/93
                         X302
                                BEAVER VALLEY 2
                                                        1486529
   109.
         BL-93-02
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                                                        M86532
                         X302
                                BIG ROCK POINT 1
         BL-93-02
   110.
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                         x302
                                BRAIDWOOD 1
                                                        ≥86533
   111.
         BL-93-02
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                         X302
                                BRAIDWOOD 2
                                                        W36534
   112.
         BL-93-02
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                          07/97
                                                        MA6535
                         X302
                                BROWNS FERRY 1
   113.
         BL-93-02
                                                                                                                                          06/95
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                        M36537
                         X302
                                BROWNS FERRY 3
   114.
         BL-93-02
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                                                        M86540
        BL-93-02
                         X302
                                BYRON 1
   115.
                                                                                                                                            1
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                        M36541
         BL-93-02
                          ×302
                                BYROW 2
   116.
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                         X302
                                CALLAWAY 1
                                                         ME6542
   117. BL-93-02
                                                                                                                                          12/93
                                                         ME:6545
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
        BL-93-02
                          X302
                                CATAWBA 1
   118.
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                           12/93
                                                         M85546
□ 119. BL-93-02
                          X302
                                CATAWBA 2
                                                                                                                                          12/93
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                         M86550
Ó
   120.
         BL-93-02
                          X302
                                COOK 1
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                           12/93
                                                         M& 551
        BL-93-02
                          X302
                                COOK 2
   121.
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                                                         ME4553
   122.
        81 - 93 - 02
                          X302
                                CRYSTAL RIVER 3
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                         M85560
                                FARLEY 1
   123. BL-93-02
                          X302
                                                                 DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                         M86561
   124.
        BL-93-02
                          X302
                                FARLEY 2
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                            1
                                                         M85565
   125. BL-93-02
                          X302
                                GINNA
                                                                                                                                           12/93
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
        BL-93-02
                          X302
                                 HOPE CREEK 1
                                                         M85571
   126.
                                                                                                                                            1
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                         M86575
                          X302
                                LASALLE 1
   127.
         BL-93-02
                                                                                                                                            1
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                         M85576
         BL-93-02
                          X302
                                 LASALLE 2
   128.
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION S'RAINERS
                                                                                                                                           12/93
                                                         ME6577
                          X302
                                LIMERICK 1
   129.
        BL-93-02
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SHETION STRAINERS
                                                                                                                                           12/93
                                                         M&5578
   130.
        BL-93-02
                          X302
                                LIMERICK 2
                                                                                                                                           12/93
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING TION STRAINERS
                          X302
                                 MCGUIRE 1
                                                         ME-6580
   131.
         BL-93-02
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING THE STRAINERS
                                                                                                                                           12/93
                          X302
                                PICGUIRE 2
                                                         ME6581
   132.
         BL-93-02
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                             1
                                                         M86594
   133.
         BL-93-02
                          X302
                                PALISADES
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                             1
                          X302
                                PALO VERDE 1
                                                         M56595
   134.
         BL-93-02
                                                                                                                                             1
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                          X30>
                                 PALO VERDE 2
                                                         M36596
   135.
         BL-93-02
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                             1
                                 PALO YERDE 3
                                                         M86597
                          X302
   136.
          81-93-02
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                           10/93
                                                         ₩86598
                          X302
                                 PEACH BOTTOM 2
   137.
          BL-93-02
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                                                                                                                           10/93
                                                         M86599
                          X302
                                 PEACH BOTTOM 3
   138.
          81-93-02
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                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
   139.
          BL-93-02
                          X302
                                 PERRY 1
                                                         M36600
                                                                                                                                           12/93
                                                                  DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS
                                PILGRIM 1
                                                         1486601
   140.
          81-93-02
                          X302
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142.	BL-93-02	X302	POINT BEACH 2	M86603	DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS	,
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144.	BL-93-02	X302	SALEM 1	M86610		12/93
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147.	BL 93-02	X302	SAN ONOFRE 3	M86613	DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS	
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159.	BL-93-03	X303	DRESDEN 2	M86889	VESSEL WATER LEVEL INSTRUMENTATION IN BUR'S: RES. OF ISSUES	7
160.	BL-93-03	X303	DRESDEN 3	M86890	VESSEL WATER LEVEL INSTRUMENTATION IN BUR'S: RES. OF ISSUES	09/94
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170.	BL-93-03	X303	LIMERICK 2	M86900	VESSEL WATER LEVEL INSTRUMENTATION IN BUR'S: RES. OF ISSUES	12/93
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264.	GL-88-20	8111	MILLSTONE 2	M74433	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
265.	GL-88-20	8111	MONTICELLO	M74435	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
266.	GL-88-20	8111	NINE MILE POINT 1	M74436	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
267.	GL-88-20	B111	MINE MILE POINT 2	M74437	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
268.	GL-88-20	8111	NORTH ANNA 1	M74438	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
269.	GL-88-20	8111	NORTH ANNA 2	M74439	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
270.	GL-88-20	8111	OCONEE 1	M74440	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
271.	GL-88-20	8111	OCONEE 2	M74441	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
272.	GL-88-20	8111	OCONEE 3	M74442	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
273.	GL-88-20	8111	OYSTER CREEK 1	M74443	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
274.	GL-88-20	8111	PALISADES	M74444	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
275.	GL-88-20	8111	PALO VERDE 1	M74445	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
276.	GL-88-20	8111	PALO VERDE 2	M74446	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
277.	GL-88-20	8111	PALO VERDE 3	M74447	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
278.	GL-88-20	B111	PEACH BOTTOM 2	M74448	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
279.	GL-88-20	8111	PEACH BOTTOM 3	M74449	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
280.	GL-88-20	8111	PERRY 1	M74450	INDIVIDUAL PLANT EVALUATIONS (GL 88-20)

12/93 06/94 08/94 12/96 12/96 12/94 01/94 1 10/93 10/93 08/94 09/94 09/94 10/93 1 12/93 07/94 11/93 12/93 12/93 06/94 06/94 06/94 12/93 1 10/93 10/93 10/93 12/93 12/93 1

01/95

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281. GL-88-20
                      B111 PILGRIM 1
                                                    M74451
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  08/95
282. GL-88-20
                      B111 POINT BEACH 1
                                                    M74452
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
283. GL-88-20
                      8111
                            POINT BEACH 2
                                                    M74453
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
284. GL-88-20
                      B111 PRAIRIE ISLAND 1
                                                    M74454
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
285.
      GL-88-20
                            PRAIRIE ISLAND 2
                                                    M74455
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
286.
     GL-88-20
                      8111
                                                    M74456
                             QUAD CITIES 1
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
287. GL-88-20
                      8111
                            QUAD CITIES 2
                                                    M74457
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
288. GL-88-20
                      B111
                            RIVER BEND 1
                                                    M74459
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                    1
289. GL-88-20
                      B111 ROBINSON 2
                                                   M74460 INDIVIDUAL PLANT EVALUATIONS (GI. 88-20)
                                                                                                                                  12/93
290. GL-88-20
                      B111
                            SALEM 1
                                                    M74461
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  03/94
291. GL-88-20
                      8111
                            SALEM 2
                                                   M74462
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  03/94
292. GL-88-20
                      8111
                            SAN ONOFRE 2
                                                   M74464
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                    1
293. GL-88-20
                      B111
                            SAN ONOFRE 3
                                                   M74465
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                   1
294
      GL-88-20
                      B111 SEQUOYAH 1
                                                   M74468
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  08/94
295.
      GL-88-20
                      B111 SEQUOYAR 2
                                                   M74469
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  08/94
296.
      GL-88-20
                      8111
                             SOUTH TEXAS 1
                                                   M74471
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  08/94
297. GL-88-20
                      8111
                           SOUTH TEXAS 2
                                                   M74472
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  08/94
298. GL-88-20
                      B111 ST LUCIE 1
                                                   M74473
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
299. GL-88-20
                      B111 ST LUCIE 2
                                                   M74474
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
300. GL-88-20
                      B111 SUMMER 1
                                                   M74475
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                   1
301. GL-88-20
                      B111
                             SURRY 1
                                                   M74476
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/93
302. GL-88-20
                      B111 SURRY 2
                                                   M74477
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/93
303. GL-88-20
                      8111
                                                   M74478
                            SUS JUEHANNA 1
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/93
304. GL-88-20
                      8111
                                                   M74479
                            SUSQUEHANNA 2
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/93
305. GL-88-20
                      8111
                                                   M74480
                            THREE MILE ISLAND 1
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/94
306. GL-88-20
                      8111
                            VERMONT YANKEE 1
                                                   M74484
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                   1
307. GL-88-20
                      8111 VOGTLE 1
                                                   M74485
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/93
308. GL-88-20
                      8111 VOGTLE 2
                                                   M74486
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/93
309. GL-88-20
                      8111
                            WASHINGTON MUCLEAR 2
                                                   M74489
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  06/94
310. GL-88-20
                      B111
                            WATERFORD 3
                                                   M74487
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                   1
311. GL-88-20
                      B111 WOLF CREEK 1
                                                   M74490
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  12/94
312. GL-88-20
                      B111 ZION 1
                                                   M74492
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  06/94
313. GL-88-20
                      8111 ZION 2
                                                   M74493
                                                            INDIVIDUAL PLANT EVALUATIONS (GL 88-20)
                                                                                                                                  06/94
314. GL-89-01
                      0025
                            BEA 'ER VALLEY 1
                                                   M86770
                                                            RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)
                                                                                                                                  12/93
315. GL-89-01
                      DOZS BEAVER VALLEY 2
                                                   M86771 RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)
                                                                                                                                  12/93
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SL-89-01 SL-89-01 SL-89-01 SL-89-01 SL-89-01 SL-89-01	D025 D025 D025 D025	BROWNS FERRY 1 BROWNS FERRY 2 BROWNS FERRY 3	M83108 M83109	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01) RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93 12/93
SL-89-01 SL-89-01 SL-89-01	D025			RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
SL-89-01 SL-89-01		BROWNS FERRY 3	M07440		
iL-89-01	0025		M83110	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
		BRUNSWICK 1	M67946	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
1 80 01	0025	BRUNSWICK 2	M67947	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
T-OA-A1	D025	FARLEY 1	M84009	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	01/94
GL-89-01	0025	FARLEY 2	M84010	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	01/94
GL-89-01	0025	HARRIS 1	M84127	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
GL-89-01	D025	HATCH 1	M84635	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
GL-89-01	D025	HATCH 2	M84636	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	12/93
SL-89-01	0025	KEWAUNEE	M86417	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	11/93
GL-89-01	0025	ST LUCIE 1	M85766	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	10/93
SL-89-01	D025	ST LUCIE 2	M85767	RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)	10/93
SL-89-04	A025	ARKANSAS 1	M74756	IST REVIEWS AND SCHEDULES (GL 89-04)	11/93
SL-89-04	A025	GINNA	M74767	IST REVIEWS AND SCHEDULES (GL 89-04)	12/93
SL-89-04	A025	HORTH ANNA 1	M74777	IST REVIEWS AND SCHEDULES (GL 89-04)	10/94
GL-89-04	A025	NORTH ANNA 2	M74778	IST REVIEWS AND SCHEDULES (GL 89-04)	10/94
GL-89-04	A025	OCONEE 1	M74779	IST REVIEWS AND SCHEDULES (GL 89-04)	07/94
SL-89-04	A025	OCONEE 2	M74780	IST REVIEWS AND SCHEDULES (GL 89-04)	07/94
GL-89-04	A025	OCONEE 3	M74781	IST REVIEWS AND SCHEDULES (GL 89-04)	07/94
SL-89-04	A025	PERRY 1	M74784	IST REVIEWS AND SCHEDULES (GL 89-04)	04/94
SL-89-04	A025	SALEM 1	M74790	IST REVIEWS AND SCHEDULES (GL 89-04)	11/93
GL-89-04	A025	SALEM 2	M74791	IST REVIEWS AND SCHEDULES (GL 89-04)	11/93
SL-89-06	F072	BROWNS FERRY 1	M73634	1.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)	07/97
SL-89-06	F072	BROWNS FERRY 2	M73635	1.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)	10/93
GL-89-06	F072	BROWNS FERRY 3	M73636	1.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)	06/95
GL-89-06	F072	PALO VERDE 1	M73686	I.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)	11/93
GL-89-06	F072	PALO VERDE 3	M73688	1.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)	04/94
GL-89-08	L908	BROWNS FERRY 1	M73457	EROSION/CORROSION INDUCED PIPE WALL THINNING (GL89-08)(OLD B108)	07/97
GL-89-08		BROWNS FERRY 3	M73459	EROSION/CORROSION INDUCED PIPE WALL THINNING (GL89-08)(OLD B108)	06/95
		ARKANSAS 1	M75626	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
		ARKANSAS 2	M75627	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
GL-89-10		BEAVER VALLEY 1	M75628	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	96/94
GL-89-10		SEAVER VALLEY 2		MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
	B110	BIG ROCK POINT 1	M75632	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
CO C	L-89-01 L-89-01 L-89-01 L-89-01 L-89-01 L-89-04 L-89-04 L-89-04 L-89-04 L-89-04 L-89-04 L-89-04 L-89-06 L-89-08	1 - 89 - 01	12-89-01   D025   HARRIS 1     12-89-01   D025   HATCH 2     12-89-01   D025   KEWAUNEE     12-89-01   D025   ST LUCIE 1     12-89-01   D025   ST LUCIE 2     12-89-04   A025   ARKANSAS 1     12-89-04   A025   GINNA     12-89-04   A025   NORTH ANNA 1     12-89-04   A025   DCONEE 1     12-89-04   A025   DCONEE 2     12-89-04   A025   DCONEE 3     12-89-04   A025   DCONEE 3     12-89-04   A025   SALEM 1     12-89-04   A025   SALEM 1     12-89-04   A025   SALEM 2     12-89-06   F072   BROWNS FERRY 2     12-89-06   F072   BROWNS FERRY 3     12-89-06   F072   BROWNS FERRY 3     12-89-06   F072   PALO VERDE 1     12-89-08   L908   BROWNS FERRY 1     13-89-08   L908   BROWNS FERRY 3     13-89-10   B110   ARKANSAS 2     13-89-10   B110   BEAVER VALLEY 1     13-89-10   B110   BEAVER VALLEY 2	1	189-01   D025   HARRIS 1   M84-127   RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)     189-01   D025   HATCH 1   M84-635   RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)     189-01   D025   HATCH 2   M84-636   RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)     189-01   D025   KEWALINEE   M85-766   RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)     189-01   D025   ST LUCIE 1   M85-766   RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)     189-04   D025   ST LUCIE 2   M85-767   RELOCATE RETS TO ADMIN. SECTION OF TECH SPECS (GL89-01)     189-04   A025   ARKANSAS 1   M74-756   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   GINNA   M74-776   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   MORTH ANNA 1   M74-777   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   OCONEE 1   M74-778   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   OCONEE 1   M74-779   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   OCONEE 2   M74-780   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   OCONEE 2   M74-780   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   OCONEE 3   M74-781   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   OCONEE 2   M74-780   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   SALEM 1   M74-780   IST REVIEWS AND SCHEDULES (GL 89-04)     189-04   A025   SALEM 1   M74-780   IST REVIEWS AND SCHEDULES (GL 89-04)     189-06   FO72   BROWNS FERRY 1   M73-634   I.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)     189-06   FO72   BROWNS FERRY 2   M73-635   I.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)     189-06   FO72   BROWNS FERRY 3   M73-635   I.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)     189-08   L908   BROWNS FERRY 1   M73-635   I.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)     189-09   L908   BROWNS FERRY 3   M73-635   I.D.2 SAFETY PARAMETER DISPLAY SYSTEM (GL89-06)     189-00   FO72   PALO VERDE 3   M73-635   I.D.2 SAFETY PA

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	351.	GL-89-10	8110	BRAIDWOOD 1	M75633	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	352.	GL-89-10	8110	BRAIDWOOD 2	M75634	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	353.	GL-89-10	8110	BROWNS FERRY 1	M75635	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	07/97
	354.	GL-89-10	8110	BROWNS FERRY 2	M75636	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	05/95
	355.	GL-89-10	8110	BROWNS FERRY 3	H75637	MOTOR	OPERATED	YALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/95
	356.	GL-89-10	8110	BRUNSWICK 1	M75638	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	357.	GL-89-10	8110	BRUNSWICK 2	M75639	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	358.	GL-89-10	B110	BYRON 1	H75640	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	359.	GL-89-10	B110	BYROW 2	M75641	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	360.	GL-89-10	6110	CALLAWAY 1	M75642	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	361.	GL-59-10	8110	CALVERT CLIFFS 1	M75643	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	07/94
	362.	GL-89-10	8110	CALVERT CLIFFS 2	M75644	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	07/94
	363.	GL-89-10	8110	CATAWBA 1	M75645	MOTOR	OPERATED	VALVED	TESTING	OHA	SURVEILLANCE	(GL	89-10)	12/98
Ó	364.	GL-89-10	8110	CATAWBA 2	M75646	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	12/98
w	365.	GL-89-10	8110	CLINTON 1	M75647	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	366.	GL-89-10	8110	COMANCHE PEAK 1	M75648	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	367.	GL-89-10	8110	COMANCHE PEAK 2	N75649	NOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	368.	GL-89-10	8110	COOK 1	M75650	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	369.	GL-89-10	B110	COOK 2	M75651	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(SL	89-10)	96/94
	370.	GL-89-10	8110	CRYSTAL RIVER 3	M75653	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	371.	GL-89-10	8110	DAVIS-BESSE 1	M75654	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	11/94
	372.	GL-89-10	8110	DIABLO CANYON 1	M75655	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	373.	GL-89-10	8110	DIABLO CANYON 2	M75056	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	374.	GL-89-10	8110	DRESDEW 2	¥75657	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	375.	GL-89-10	8110	DRESDEN 3	M75658	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	376.	GL-89-10	8110	DUAME ARNOLD	M75659	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	377.	GL-89-10	8110	FARLEY 1	M75660	HOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	378.	GL-89-10	8110	FARLEY 2	M75661	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	379.	GL-89-10	8110	FERMI 2	M75662	MOTOR	OPERATED	VALVED	TESTING	AMD	SURVEILLANCE	(GL	89-10)	06/94
	380.	GL-89-10	8110	FITZPATRICK	M75663	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	381.	GL-89-10	8110	FORT CALHOUN 1	M75664	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	382.	GL-89-10	8110	GINNA	M75665	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	383.	GL-89-10	8110	GRAND GULF 1	M75666	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	06/94
	384.	GL-89-10	B110	HADDAM NECK	M75667	MOTOR	OPERATED	VALVED	TESTING	AND	SURVEILLANCE	(GL	89-10)	02/96
	385.	GL-89-10	B110	HARRIS 1	M75668	MOTOR	OPERATED	VALVED	TESTING	AND	SURVETLLANCE	(GL	89-10)	06/94

12/95	96/90	%6/90	%6/90	%6/90	%6/90	76/90	76/90	%6/90	\$6/90	96/90	12/97	12/97	12/95	76/90	01/94	76/90	76/90	%6/90	76/90	%6/90	12/98	12/98	12/98	76/90	76/90	96/90	%6/90	%6/90	96/90	96/90	76/90	96/90	76/90	%6/90
89-10)	7-10)	7-10)	9-10)	9-10)	7-10)	2-10)	9-10)	9-10)	89-10)	89-10)	89-10)	89-10)	89-10)	89-10)	87-10)	89-401	89-10)	89-10)	89-10)	89-10)	89-10)	89-10)	89-10)	89-10)	9-10)	9-10)	89-10)	9-10)	89-10)	9-10)	89-10)	89-10)	89-10)	89-103
(61.89	(GL 89-	(GL 89	(61 89	(GL 89-	(GL 89-	(GL 89	(GL 89	(GL 89-	Gt. 85	(61 89	(GL 85	(61.8%	(61.89	1.1	6 19)	(61 8	(GE 8	(61.8)	(61 8	(GL 8)	(GL 8	(GL 8)	(GL 8	(GL 8	(GL 8	(GL 8	(GL 8	(GL 8	(61. 5	(61.8	(61.8	(61.8	(61.8	(61.8
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OPERATED VALVED TESTING	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VALVED	VAL YED	VALVED	VALVED	VALVED	VAL VED	VALVED	OPERATED VALVED T	OPERATED VALVED TESTING AND
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MCTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	HOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	HOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR	MOTOR
M75669	M75670	M75671	M75672	M75673	M75674	M75675	N75676	M75677	M75678	M75679	M75680	M75681	M75682	M75683	M75684	N75685	M75686	M75687	M75688	M75689	M75690	H75691	M75692	M75693	N75694	M75695	M75696	M75697	M75698	M75699	M75700	M75701	M75702	M75703
HATCH 1	HATCH 2	HOPE CREEK 1	INDIAN POINT 2	INDIAN POINT 3	KEWAUNEE	LASALLE 1	LASALLE 2	LIMERICK 1	LIMERICK 2	MAINE YANKEE	MCGUIRE 1	MCGUIRE 2	MILLSTONE 1	MILLSTONE 2	MILLSTONE 3	MONTICELLO	NINE MILE POINT 1	NINE MILE POINT 2	NORTH ANNA 1	NORTH ANNA 2	OCOMEE 1	OCONEE 2	CCOMEE 3	OYSTER CREEK 1	PALISADES	PALO VERDE 1	PALO VERDE 2	PALC VERDE 3	PEACH BOTTOM 2	PEACH BOTTOM 3	PERRY 1	PILGRIM 1	POINT BEACH 1	POINT BEACH 2
8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110	8110
GL-89-10	GL-89-10	GL-89-10	6189-10	61-89-10	GL-89-10	GL-89-10	61-89-10	GL-89-10	GL-89-10	GL-89-10	GE-89-10	GL-89-10	GL-89-10	61-15-10	61-99-10	61-79-10	GL-1:9-10	GL 89-10	GL-39-10	GL-89-10	GE-89-10	61-89-10	61-89-10	GL-89-10	61-89-10	GL-89-10	61-89-10	GL-89-10	GL-89-10	GL-89-10	GL-89-10	GL-89-10	61-89-10	GL-89-10
386.	387.	388.	389.	390.	391.	392.	393.	394.	395.	396.	397.	398.	C 399.	7400.		402.	403.	787	405.	406.	407.	408.	7607	410.	411.	412.	413.	416.	415.	416.	657.	418.	419.	420.

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421.	GL-89-10	8110	PRAIRIE ISLAND 1	M75704	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	04 (0)
422.	GL-89-10	8110	PRAIRIE ISLAND 2	H75705	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
423.	GL-89-10	B110	QUAD CITIES 1	M75706		06/94
424.	GL-89-10	8110	QUAD CITIES 2	M75707		06/94
425.	GL-89-10	B110	RIVER BEND 1	M75708		06/94
426.	GL-89-10	B110	ROBINSON 2	M75709		06/94
427.	GL-89-10	8110	SALEM 1	M75710	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
428.	GL-89-10	B110	SALEM 2	M75711	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	05/95
429.	GL-89-10	B110	SAN OMIFRE 2	H75713	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	11/94
430.	GL-89-10	8110	SAN ONOFRE 3	M75714	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
431.	GL-89-10	8110	SEABROOK 1	M75715	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
432.	GL-89-10	8110	SEQUOYAH 1	M75716	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
433.	GL-89-10	B110	SEQUOYAH 2	M75717	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	03/95
Q 434.	GL-89-10	B110	SOUTH TEXAS 1	H75719	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	03/95
₩ 435.	GL-89-10	B110	SOUTH TEXAS 2	M75720	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
436.	GL-89-10	8110	ST LUCIE 1	H75721	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	
437.	GL-89-10	8110	ST LUCIE 2	M75722	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
438.	GL-89-10	8110	SUMMER 1	M75723	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
439.	GL-89-10	8110	SURRY 1	M75724	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
440.	GL-89-10	B110	SURRY 2	M75725	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
441.	GL-89-10	8110	SUSQUENANNA 1	M75726	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
442.	GL-89-10	B110	SUSQUEHANNA 2	M75727	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
443.	GL-89-10	8110	THREE MILE ISLAND 1	H75728	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
444.	GL-89-10	B110	TURKEY POINT 3	H75730	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
445.	GL-89-10	8110	TURKEY POINT 4	M75731	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
446.	GL-89-10	8110	VERMONT YANKEE 1	M75732	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
447.	GL-89-10	B110	VOGTLE 1	M75733	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
448.	GL-89-10	8110	VOCTLE 2	M75734	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	36/95
449.	GL-89-10	8110	WASHINGTON MUCLEAR 2	M75738	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/95
450.	GL-89-10	8110	WATERFORD 3	M75735	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
451.	GL-89-10	B110	WOLF CREEK 1	H75739	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (SL 89-10)	06/94
452.	GL-89-10	8110	ZION 1	M75741	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	12/94
453.	GL-89-10	B110	Z10N 2	M75742	MOTOR OPERATED VALVED TESTING AND SURVEILLANCE (GL 89-10)	06/94
454.	GL-89-14	0026	QUAD CITIES 1	M84319	ELIMINATION OF 3.25 REQUIREMENT IN TECH SPEC 4.0.2 (GL89-14)	06/94
455.	GL-89-14	0026	QUAD CITIES 2	M84320	ELIMINATION OF 3.25 REQUIREMENT IN TECH SPEC 4.0.2 (GL89-14)	/
					THE THE PROPERTY IN ICON SPEC 4.0.2 (GLOY'14)	,

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07/97
                                                                   INSTALLATION OF HARDENED WETWELL VENT (GL 89-16)
          GL-89-16
                           8112
                                 BROWNS FERRY 1
                                                          M74858
   456.
                                                                                                                                             06/95
                                                          M74860
                                                                   INSTALLATION OF HARDENED WETWELL VENT (GL 89-16)
          GL-89-16
                           B112
                                 BROWNS FERRY 3
   457.
                                                                   INSTALLATION OF HARDENED WETWELL VENT (GL 89-16)
                                                                                                                                             02/94
                                                          M74872
                           B112
                                 MILLSTONE 1
   458.
          GL-89-16
                                                                                                                                             12/93
                                                          M74877
                                                                   INSTALLATION OF HARDENED WETWELL VENT (GL 89-16)
                           B112
                                 PEACH BOTTOM 3
   459.
          GL-89-16
                                                                                                                                             12/93
                                                                   Visual Inspection Frequency for Snubbers (GL-90-09)
          GL-90-09
                          0028
                                 GINNA
                                                          M83570
   460.
                                                                                                                                               1
                                                                   Removal of W/D Schedule for RV Material Specimens (GL-91-01)
                                 SAN ONOFRE 3
                                                          M84517
   461.
          GL-91-01
                          D029
                                                                                                                                             10/93
                                                                   TS SURVEILLANCE INTERVAL REQUIREMENTS FOR 24 MO CYCLE (GL91-04)
                                 PEACH BOTTOM 2
                                                          M83704
   462.
          GL-91-04
                          D031
                                                                   TS SURVEILLANCE INTERVAL REQUIREMENTS FOR 24 MO CYCLE (GL91-04)
                                                                                                                                              10/93
                                                          M83705
                           0031
                                 PEACH BOTTOM 3
   463.
          GL-91-04
                                                                   TS SURVEILLANCE INTERVAL REQUIREMENTS FOR 24 MO CYCLE (GL91-04)
                                                                                                                                             03/94
                                                          M83787
   464.
          GL-91-04
                          0031
                                 PILGRIM 1
                                                                                                                                             02/94
                                                                   Removal of Component Lists from Tech Spec
                          D030
                                 CALVERY CLIFFS 2
                                                          M87559
   465.
          GL-91-08
                                                                                                                                             01/94
                                                          M77849
                                                                   Removal of Component Lists from Tech Spec
   466.
          GL-91-08
                           0030
                                 GIMMA
                                                                                                                                               1
                                                          M82391
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
   467.
                                 CALLAWAY 1
          GL-91-11
                          L111
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
                                                                                                                                              12/93
                          L111
                                 GINNA
                                                          M82414
   468.
          GL-91-11
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
                                                                                                                                              12/94
  469.
          GL-91-11
                           L111
                                 HATCH 1
                                                          M82418
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
                                                                                                                                              12/94
o 470.
                                                          M82419
          GL-91-11
                          L111
                                 HATCH 2
                                                                                                                                              11/93
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
                                                          M82423
                                 KEWAUNEE
   471.
          GL-91-11
                          L111
                                                                                                                                              12/93
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
                                                          M82429
                          L111
                                 MCGUIRE 1
   472.
          GL-91-11
                                                                                                                                              12/93
                                                                   VITAL INSTRUMENT BUSES & TIE BREAKERS (GI 48, GI 49)
   473.
          GL-91-11
                           L111
                                 MCGUIRE 2
                                                          M82430
                                                                                                                                              10/93
                                                                   ESSENTIAL SERVICE WATER SYSTEM FAILURES (GSI 130)
                           8119
                                 BRAIDWOOD 1
                                                          M81167
          GL-91-13
   474.
                                                                                                                                              10/93
                                                                   ESSENTIAL SERVICE WATER SYSTEM FAILURES (GSI 130)
                                                          M81168
   475.
          GL-91-13
                           B119
                                 BRAIDWOOD 2
                                                                                                                                              03/94
                                                          M83730
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           8120
                                 ARKANSAS 1
   476.
          GL-92-01
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                                          MS3430
   477.
          GL-92-01
                           8120
                                 ARKANSAS 2
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           8120
                                 BEAVER VALLEY 1
                                                          M83431
          GL-92-01
   478.
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           B120
                                 BEAVER VALLEY 2
                                                          M83432
          GL-92-01
   479.
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                                          M83435
                           B120
                                 BIG ROCK POINT 1
   480.
          GL-92-01
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                                          M83436
   481.
          GL-92-01
                           8120
                                 BRAIDWOOD 1
                                                                                                                                              12/93
                                                          M83437
                                                                   REACTOR WESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           B120
                                 BRAIDWOOD 2
   482.
          GL-92-01
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                 BROWNS FERRY 1
                                                          M83438
   483.
          GL-92-01
                           8120
                                                                                                                                              12/93
                                                                   REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           B120
                                 BROWNS FERRY 2
                                                          M83439
          GL-92-01
   484.
                                                                                                                                              12/93
                                                                    REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           B120
                                                          M83440
   485.
          GL-92-01
                                  BROWNS FERRY 3
                                                                                                                                              12/93
                                                                    REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           B120
                                  BRUNSWICK 1
                                                          M83441
   486.
          GL-92-01
                                                                                                                                              12/93
                                                                    REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                                          M83442
                                  BRUNSWICK 2
   487.
          GL-92-01
                           8120
                                                                                                                                              12/93
                                                                    REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                           8120
                                 SYRON 1
                                                          M83443
          GL-92-01
   488.
                                                                    REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                                                                                                                              12/93
                           8120
                                  BYRON 2
                                                           983444
   489.
          GL-92-01
                                                                                                                                              12/93
                                                                    REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)
                                                           M83445
                           8120
                                 CALLAWAY 1
   490.
          GL-92-01
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	491.	GL-92-01	8120	CALVERT CLIFFS 1	M83446	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	/93
	492.	GL-92-01	B120	CALVERT CLIFFS 2	M83447	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	1/93
	493.	GL-92-01	B120	CATAWBA 1	M83448	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	/93
	494.	GL-92-01	8120	CATAWBA 2	M83449	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	/93
	495.	GL-92-01	8120	CLINTON 1	M83450	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	/93
	496.	GL-92-01	8120	COMANCHE PEAK 1	M83451	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	1/93
	497.	GL-92-01	8120	COMANCHE PEAK 2	M83452	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	/93
	498.	GL-92-01	B120	COOK 1	M83453	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	1/93
	499.	GL-92-01	B120	COOK 2	M83454	and the same and t	/93
	500.	GL-92-01	8120	COOPER STATION	M83455		2/93
	501.	GL-92-01	8120	CRYSTAL RIVER 3	M83731		/93
	502.	GL-92-01	8120	DAVIS-BESSE 1	M83732	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 12	194
	503.	GL-92-01	B120	DIABLO CANYON 1	M83456	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 01	194
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-	506.	GL-92-01	8120	DRESDEN 3	M83459		2/93
	507.	GL-92-01	8120	DUANE ARNOLD	M83460		2/93
	508.	GL-92-01	B120	FARLEY 1	M83461		2/93
	509.	GL-92-01	8120	FARLEY 2	M83462		2/93
	510.	GL-92-01	8120	FERMI 2	M83463		2/93
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	513.	GL-92-01	£120	GINNA	M83733	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01) 01	/94
	514.	GL-92-01	B120	GRAND GLELF 1	M83466		1/94
	515.	GL-92-01	B120	HADDAM NECK	M83467	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	1/93
	516.	GL-92-01	8120	HARRIS 1	M83468		2/93
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	523.	GL-92-01	8120	LASALLE 1	M83475		2/93
	524.	GL-92-01	8120	LASALLE 2	M83476		2/93
	525.	GL-92-01	8120	LIMERICK 1	M83477		2/93

526.	GL-92-01	8120	LIMERICK 2	M83478	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
527.	GL-92-01	B120	MAINE YANKEE	463479	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	06/94
528.	GL-92-01	8120	MCGUIRE 1	M83480	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
529.	GL-92-01	R120	MCGUIRE 2	M83481	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
530.	GL-92-01	B120	MILLSTONE 1	M83482	REACTOR VESSEL	STRUCTURAL.	IMIEGRITY (GL	92-01)	12/93
531.	GL-92-01	8120	MILLSTONE 2	M83483	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
532.	GL-92-01	2:20	MILLSTONE 3	M83484	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
533.	GL-92-01	B120	MONTICELLO	M83485	P VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
534.	GL-9:1-01	B120	NINE MILE POINT 1	M83486	". VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
535.	GL-92-0.	8120	MINE MILE POINT 2	M83487	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
536.	GL-92-01	8120	HERTZ ANNA 1	M834P8	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
537.	GL-92-01	8120	NORTH ANNA 2	M83489	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
538.	GL-92-01	8120	OCONEE 1	M83734	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
O 539.	GL-92-01	B120	OCONEE 2	M83735	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
m 540.	GL-92-01	B120	OCONEE 3	M83736	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
541.	GL-92-01	8120	OYSTER CHEEK 1	M83490	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
542.	GL-92-01	B120	PALISADES	M83491	REACTOR VESSEL	STRUCTURAL	INTEGRITY (G'	92-01)	12/93
543.	GL-92-01	B120	PALO VERDE 1	M83492	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
544.	GL-92-01	8120	PALO VERDE 2	M83493	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
545.	GL-92-01	B120	PALO VERDE 3	M83494	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
546.	GL-92-01	9120	PEACH BOTTOM 2	M83495	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
547.	GL-92-01	8120	PEACH BOTTOM 3	M83496	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
548.	GL-92-01	B120	PERRY 1	M83497	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
549.	GL-92-01	8120	PILGRIM 1	M83498	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
550.	GL-92-01	8127	POINT BEACH 1	M83737	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	03/94
551.	GL-92-01	8120	POINT BEACH 2	M83738	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	03/94
552.	GL-92-01	8120	PRAIRIE ISLAND 1	M83499	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
553.	GL-92-01	8120	PMAIRTE ISLAND 2	M83500	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
554.	GL-92-01	8120	QUAD CITIES 1	MR3501	REACTOR VESSEL				12/93
555.	GL-92-01	B120	QUAD CITIES 2	M83502	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
556.	GL-92-01	8120	RIVER BEND 1	M83503	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
557.	GL-92-01	8120	ROBINSON 2	M83504	REACTOR VESSEL	STRUCTURAL	INTEGRITY (GL	92-01)	12/93
558.	GL-92-01	8120	SALEN 1	M83507	REACTOR VESSEL				01/94
559.	GL-92-01	8120	SALEN 2	M83508	REACTOR VESSEL				10/94
560.	GL-92-01	8120	SAN ONOFRE 2	M83510	REACTOR VESSEL				12/93

561.	GL-92-01	8120	SAN ONOFRE 3	M83511	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
562.	1-92-01	8120	SEABROOK 1	M83512	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	01/94
563.	GL-92-01	8120	SEQUOYAH 1	M83513	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/94
564.	GL-92-01	B120	SEQUOYAH 2	07.14	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/94
565.	GI92-01	8120	SOUTH TEXAS 1	. 515	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
566.	GL-92-01	B120	SOUTH TEXAS 2	.63516	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
567.	GL-92-01	B120	ST LUCIE 1	M83505	REACTUR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	01/94
568.	GL-92-01	8120	ST LUCIE 2	M83506	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	01/94
569.	GL-92-01	B120	SUMMER 1	M83517	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
570.	GL-92-01	8120	SURRY 1	M83739	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
571.	GL-92-01	8120	SURRY 2	M83740	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
572.	GL-92-01	8120	SUSQUEHANNA 1	M83518	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
573.	GL-92-01	8120	SUSQUEHANNA 2	M83519	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
Q 574.	GL-92-01	8120	THREE MILE ISLAND 1	M83741	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
co 575.	GL-92-01	B120	TURKEY POINT 3	M83742	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
576.	GL-92-01	8120	TURKEY POINT 4	M83743	REACTOR VESSEL STRUCTURAL INTEG: 17 (GL 92-01)	12/**
577.	GL-92-01	8120	VERMONT YANKEE 1	M83521	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	:2/93
578.	GL-92-01	8120	VOGTLE 1	M83522	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	01/94
579.	GL-92-01	8120	VOGTLE 2	M83523	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	01/94
580.	GL-92-01	8120	WASHINGTON MUCLEAR 2	M83527	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
581.	GL-92-01	B120	WATERFORD 3	M83524	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
582.	GL-92-01	8120	MOLF CREEK 1	M83528	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
583.	GL-92-01	8120	Z10N 1	M83744	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
584.	GL-92-01	8120	Z10W 2	<b>И83745</b>	REACTOR VESSEL STRUCTURAL INTEGRITY (GL 92-01)	12/93
585.	GL-92-04	8121	COOPER STATION	M84275	BUR LEVEL INSTRUMENTATION (GL-92-04)	12/93
586.	GL-92-04	8121	HATCH 1	M84282	BUR LEVEL INSTRUMENTATION (GL-92-04)	12/93
587.	GL-92-04	8121	HATCH 2	M84283	BUR LEVEL INSTRUMENTATION (GL-92-04)	12/93
588.	GL-92-04	8121	LASALLE 1	M84285	BLAR LEVEL INSTRUMENTATION (GL-92-04)	1
589.	GL-92-04	8121	LASALLE 2	M84286	BUR LEVEL INSTRUMENTATION (GL-92-04)	1
590.	GL-92-04	8121	LIMERICK 2	M84288	BAR LEVEL INSTRUMENTATION (GL-92-04)	01/94
591.	GL-92-04	8121	PERRY 1	M84296	BUR LEVEL INSTRUMENTATION (GL-92-04)	1
592.	GL-9"-04	8121	SUSQUEHANNA 1	M84301	BAR LEVEL INSTRUMENTATION (GL-92-04)	01/94
593.	GL-92-04	8121	SUSCLEHANNA 2	MB4302	BLR LEVEL INSTRUMENTATION (GL-92-04)	01/94
594.	GL-92-04	8121	VERMONT YANKEE 1	M84303	BAR LEVEL INSTRUMENTATION (GL-92-04)	11/93
595.	GL-92-08	L208	ARKANSAS 2	M85515	THERMO-LAG (GENERIC LETTER 92-08)	06/94

596.	GL-92-08	L208	BEAVER VALLEY 1	M85516	THERMO-LAG (GENERIC LETTER 92-08)	12/93
597.	GL-92-08	L208	BEAVER VALLEY 2	M85517	THERMO-LAG (GENERIC LETTER 92-08)	12/93
598.	GL-92-08	L208	BRAIDWOOD 1	M85521	THERMO-LAG (GENERIC LETTER 92-08)	/
599.	GL-92-08	L208	BRAIDWOOD 2	M85522	THERMO-LAG (GENERIC LETTER 92-08)	/
600.	GL-92-08	L208	BROWNS FERRY T	M85523	THERMO-LAG (GENERIC LETTER 92-08)	11/93
601.	GL-92-08	L208	BROWNS FERRY 2	M85524	THERMO-LAG (GENERIC LETTER 92-08)	11/93
602.	GL-92-08	L208	BROWNS FERRY 3	M85525	THERMO-LAG (GENERIC LETTER 92-08)	11/93
603.	GL-92-08	L208	BRUNSWICK 1	M85526	THERMO-LAG (GENERIC LETTER 92-08)	03/95
604.	GL-92-08	L208	BRUNSWICK 2	M85527	THERMO-LAG (GENERIC LETTER 92-08)	03/95
605.	GL-92-08	L208	BYROW 1	M85528	THERMO-LAG (GENERIC LETTER 92-08)	/
606.	GL-92-08	L208	BYRON 2	M85529	THERMO-LAG (GENERIC LETTER 92-08)	,
607.	GL-92-08	L208	CALLAWAY 1	M85530	THERMO-LAG (GENERIC LETTER 92-08)	,
608.	GL-92-08	L208	CLINTON 1	M85535	THERMO-LAG (GENERIC LETTER 92-08)	,
P 609.	GL-92-08	L208	COMANCHE PEAK 1	M85536	THERMO-LAG (GENERIC LETTER 92-08)	12/93
S 610.	GL-92-08	L208	COOK 1	M85538	THERMO-LAG (GENERIC LETTER 92-08)	03/94
611.	GL-92-08	L208	COOK 2	M85539	THERMO-LAG (GENERIC LETTER 92-08)	03/94
612.	GL-92-08	L208	COOPER STATION	M85540	THERMO-LAG (GENERIC LETTER 92-08)	12/93
613.	GL-92-08	L208	CRYSTAL RIVER 3	M85541	THERMO-LAG (GENERIC LETTER 92-08)	12/93
614.	GL-92-08	L208	DAY T-BESSE 1	M85542	THERMO-LAG (GENERIC LETTER 92-08)	12/95
615.	GL-92-08	L208	DIF 7 CANYON 1	M85543	THERMO-LAG (GENERIC LETTER 92-08)	/
616.	GL-92-08	L208	DL LO CANYON 2	M85544	THERMO-LAG (GENERIC LETTER 92-08)	1
617.	GL-92-08	L208	DUANE ARNOLD	M85547	THERMO-LAG (GENERIC LETTER 92-08)	,
618.	GL-92-08	L208	FERMI 2	M85550	THERMO-LAG (GENERIC LETTER 92-08)	05/94
619.	GL-92-08	L208	GRAND GULF 1	M85554	THERMO-LAG (GENERIC LETTER 92-08)	12/94
620.	GL-92-08	L208	HADDAM NECK	M85555	THERMO-LAG (GLAERIC LETTER 92-08)	06/94
621.	GL-92-08	L208	HARRIS 1	M85556	THERMO-LAG (GERLRIC LETTER 92-08)	06/94
622.	GL-92-08	L208	HATCH 1	M85557	THERMO-LAG (GENERIC LETTER 92-08)	12/95
623.	GL-92-08	L208	HATCH 2	M85558	THERMO-LAG (GENERIC LETTER 92-08)	12/95
624.	GL-92-08	L208	INDIAN POINT 2	M85560	THERMO-LAG (GENERIC LETTER 92-08)	12/93
625.	GL-92-08	L208	LASALLE 1	M85563	THERMO-LAG (GENERIC LETTER 92-08)	,
626.	GL-92-08	L208	LASALLE 2	M85564	THERMO-LAG (GENERIC LETTER 92-08)	/
627.	GL-92-08	L208	LIMERICK 1	M85565	THERMO-LAG (GENERIC LETTER 92-08)	01/94
628.	GL-92-08	L208	LIMERICK 2	M85566	THERMO-LAG (GENERIC LETTER 92-08)	01/95
629.	GL-92-08	L208	MAINE YANKEE	M85337	THERMO-LAG (GENERIC LETTER 92-08)	12/93
630.	GL-92-08	L208	MILLSTONE 1	485570	THERMO-LAG (GENERIC LETTER 92-08)	06/94

631.	GL-92-08		208	MILLSTONE 2	M85571	THERMO-LAG (GENERIC LETTER 92-08)	06/94
632.	GL-92-08	- 1	208	MILLSTONE 3	M85572	THERMO-LAG (GENERIC LETTER 92-08)	12/93
653.	GL-72-08		208	NINE MILE POINT 1	M85574	THERMO-LAG (GENERIC LETTER 92-08)	12/93
634.	GL-92-08	1	208	N'NE MILE POINT 2	M85575	THERMO-LAG (GENERIC LETTER 92-08)	12/93
635.	GL-92-08	- 1	208	NORTH ANNA 1	M85576	THERMO-LAG (GENERIC LETTER 92-08)	12/93
636.	GL-92-08		L208	NORTH ANNA 2	M85577	THERMO-LAG (GENERIC LETTER 92-08)	12/93
637.	GL-92-08	1	208	OYSTER CREEK 1	M85581	THERMO-LAG (GENERIC LETTER 92-08)	04/94
638.	GL-92-08	1	208	PALISADES	M85582	THERMO-LAG (GENERIC LETTER 92-08)	/
639.	GL-92-08		208	PALO VERDE 1	M85583	THERMO-LAG (GENERIC LETTER 92-08)	/
540.	GL-92-08		208	PALO VERDE 2	M85584	THERMO-LAG (GENERIC LETTER 92-08)	
641.	QL-92-08	- 1	L208	PALO VERDE 3	M85585	THERMO-LAG (GENERIC LETTER 92-08)	/
642.	GL-92-08		208	PEACH BOTTOM 2	M85586	THERMO-LAG (GENERIC LETTER 92-08)	12/94
643.	GL-92-08		805	PEACH BOTTOM 3	R00007	THERMO-LAG (GENERIC LETTER 92-08)	12/94
P 644.	GL-92-08		208	PERRY 1	M85588	THERMO-LAG (GENER'C LETTER 92-08)	/
N 645.	GL-92-08		208	POINT BEACH 1	M85590	THERMO-LAG (GENERIC LETTER 92-08)	,
646.	GL-92-08		208	POINT BEACH 2	M85591	THERMO-LAG (GENERIC LETTER 92-08)	/
647.	GL-92-08		208	PRAIRIE ISLAND 1	M85592	THERMO-LAG (GENERIC LETTER 92-08)	1
648.	GL-92-06		208	PRAIRIE ISLAND 2	M85593	THERMO-LAG (GENERIC LETTER 92-03)	/
649.	GL-92-08	- 1	208	RIVER BEND 1	M85596	THERMO-LAG (GENERIC LETTER 92-08)	1
650.	GL-92-08	- 1	208	SAN ONOFRE 2	M85601	THERMO-LAG (GENERIC LETTER 92-08)	1
651.	GL-92-08		L208	SAN ONOFRE 3	M83602	THERMO-LAG (GENERIC LETTER 92-08)	,
652.	GL-92-08	1	208	SEQUOYAH 1	M85604	THERMO-LAG (GENERIC LETTER 92-08)	01/94
653.	GL-92-08	- 1	208	SEQUOYAN 2	MU5605	THERMO-LAG (GENERIC LETTER 92-08)	01/94
654.	GL-92-08		208	SOUTH TEXAS 1	M85606	THERMO-LAG (GENERIC LETTER 92-08)	06/94
655.	GL-92-08	- 1	208	SOUTH TEXAS 2	M85607	THERMO-LAG (GENERIC LETTER 92-08)	06/94
656.	GL-92-08		206	ST LUCIE 1	M85608	TKSRMO-LAG (GENERIC LETTER 92-08)	12/93
657.	GL-92-08		208	T LUCIE 2	M85609	THERMO-LAG (GENERIC LETTER 92-08)	12/93
658.	GL-92-08		208	SUMMER 1	M85610	THERMO-LAG (GENERIC LETTER 92-08)	10/93
659.	GL-92-08		208	SURRY 1	W85611	THERMO-LAG (GENERIC LETTER 92-08)	06/94
660.	GL-92-08		208	SURRY 2	M85612	THERMO-LAG (GENERIC LETTER 92-08)	06/94
661.	GL-92-08	- 1	208	SUSQUEHANNA 1	M85613	THERMO-LAG (GENERIC LETTER 92-08)	12/95
662.	GL-92-08		208	SUSQUEHANNA 2	M85614	THERMO-LAG (GENERIC LETTER 92-08)	12/94
663.	GL-92-08		208	THREE MILE ISLAND 1	M85615	THERMO-LAG (GENERIC LETTER 92-08)	12/94
664.	GL-92-08		L208	TURKEY POINT 3	M85616	THERMO-LAG (GENERIC LETTER 92-08)	12/93
665.	GL-92-08		L208	TURKEY POINT 4	M85617	THERMO-LAG (GENERIC LETTER 92-08)	12/93

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666.
          GL - YE Gd
                          L208
                                 VERMONT VANKEE 1
                                                         M85618
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
                                                                                                                                            12/93
   667.
          GL-92-08
                          L208
                                 VOGTLE 1
                                                         M85619
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
                                                                                                                                            12/94
   668.
          GL-92-08
                          £208
                                 VOGTLE 2
                                                          M85620
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
                                                                                                                                            12/94
   669.
          GL-92-08
                          £208
                               WASHINGTON MUCLEAR 2
                                                         M85624
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
   670.
          GL-92-08
                          L208
                                 WATERFORD 3
                                                         M85621
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
   671.
          GL-92-08
                          1.208
                                WOLF CREEK 1
                                                         M85625
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
   672.
          GL-92-08
                          £208
                                ZION 1
                                                         M85626
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
   573.
          GL-92-08
                          L208
                                 210H 2
                                                         M85627
                                                                  THERMO-LAG (GENERIC LETTER 92-08)
   674. GL-93-04
                          1304
                                 BEAVER VALLEY 1
                                                         M86831
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                            12/93
          GL-93-04
                          1.304
                                 BEAVER VALLEY 2
                                                         986832
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL (* RCCA'S (GL 93-04)
                                                                                                                                            12/93
   676. GL-93-04
                          £ 304
                                                         M86833
                                 BRAIDWOOD 1
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   677. GL-93-04
                          1304
                                                         M86834
                                 BRAIDWOOD 2
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   678.
         GL-93-04
                          1304
                                 BYRON 1
                                                         M86835
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   679.
         GL-93-04
                          1304
                                 BYRON 2
                                                         M86836
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
N 680.
          GL-93-04
                          L304
                                CALLAWAY 1
                                                         M86837
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   681.
         GL-93-04
                          L304
                                CATAWBA 1
                                                         M86838
   682.
         GL-93-04
                          L304
                                 CATALBA 2
                                                         M86839
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   683.
         GL-93-04
                          1304
                                 COMANCHE PEAK 1
                                                         M86840
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   684.
         GL-93-04
                          L304
                                 COMANCHE PEAK 2
                                                         M86841
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                            12/93
   685.
         GL-93-04
                          1304
                                 COOK T
                                                         M86842
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF PCCA'S (GL 93-04)
                                                                                                                                           03/94
         GL-93-04
   686.
                          1304
                                 COOK 2
                                                         M86843
                                                                  ROD CONTROL SYSTEM FATTURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           03/94
         GL-93-04
   687.
                          L304
                                DIABLO CANYON 1
                                                         M86844
                                                                  ROD CONTROL SYSTEM FA. 55 & WITHDRAUGE OF RCCA'S (GL 93-G4)
                                                                                                                                           03/94
   ARR.
         GL-93-04
                          1304
                                DIABLO CANYON 2
                                                         M86845
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           03/94
   689.
         GL-93-04
                          L304
                                FARLEY 1
                                                         M86846
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
   690.
         GL-93-04
                          L304
                                FARLEY 2
                                                         PA 5847
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             1
   691.
         GL-93-04
                         L304
                                                         BARACA
                                GINNA
                                                                  900 CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-94)
         GL-93-04
   692.
                          L304
                                 HARRIS 1
                                                         M86849
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           03/94
  693.
         GL-93-04
                         L304
                                INDIAN POINT 2
                                                         #86850
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             1
   694.
         GL-93-04
                         L304
                                INDIAN POINT 3
                                                         M86851
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           03/94
  695.
         GL-93-04
                         L304
                                KENALMEE
                                                         M86852
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             1
         GL-93-04
  696.
                         L304
                                MCGUIRE 1
                                                         M86853
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           03/94
  697. GL-93-04
                         L304
                                MCGUIRE 2
                                                         M86854
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           03/94
  698. GL-93-04
                         L304
                                HILLSTONE 3
                                                         M86855
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-94)
                                                                                                                                           03/94
  699. GL-93-04
                         L304
                                NORTH ANNA 1
                                                         M86856
                                                                  ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                           12/93
                         1304
  700. GL-93-04
                                HORTH ANNA 2
                                                         M86857
                                                                  ROD CONTROL SYSTE" PER P. WITHDRAMAL OF RCCA'S (GL 93-04)
                                                                                                                                            12/93
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03/94
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                          M86858
         GL-93-04
                                 POINT BEACH 1
                          E3D
   701
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GE 93-04)
                                                                                                                                             03/94
                                                          M86859
                                 POINT BEACH 2
   702.
         GI -93-04
                          1.304
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             03/94
                                                          M86860
   703. GL-93-04
                          1304
                                 PRAIRIE ISLAND 1
                                                                                                                                             03/94
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                 PRAIRIE ISLAND 2
                                                          M86861
                          130%
   704.
         GL-93-04
                                                                                                                                             12/93
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                          M86862
                          1.704
                                 ROBINSON 2
   705.
          61 - 93-04
                                                                                                                                             03/94
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                          M86863
                          1304
                                 SALEM 1
   706.
          GL-93-04
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             03/94
                                                          M86864
   707.
          GL - 93-04
                          1304
                                 SALEN 2
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             03/94
                          1.304
                                 SFARROOK 1
                                                          MR6865
   708.
          GL-93-04
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             03/94
                                                          MR6866
                          1304
                                 SECHOYAR 1
   700
          61 -93-04
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                             03/94
                                                          M86867
                          1304
                                 SEQUOYAH 2
   710.
          GL-93-04
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                              03/94
                                                          M86868
                          L304
                                 SCHITH TEXAS 1
   711.
          GL-93-04
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                              03/94
                                                          M86869
   712.
          GL-93-04
                          L304
                                  SOUTH TEXAS 2
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                 SLIMMER 1
                                                          M86870
   713.
          GL-93-04
                          1304
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RECA'S (GL 93-04)
Q 714.
          GL-93-04
                                                           M86871
                                  SURRY 1
                          1304
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
N 715.
                                                          M86872
                                  SURRY 2
          GL-93-04
                          1304
                                                                                                                                              03/94
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                           M86873
                                  TURKEY POINT 3
   716.
          GL-93-04
                           1304
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                              03/94
                                                           M86874
   717.
          GL-93-04
                           L304
                                  TURKEY POINT 4
                                                                                                                                              63/94
                                                                    ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                  VOGTLE 1
                                                           MB6875
          GL-93-04
                           L304
   718.
                                                                                                                                              03/94
                                                                   ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                           M86876
          GL-93-04
                           1304
                                  VOGTLE 2
   719.
                                                                                                                                              03/94
                                                                    ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                           M86878
                                  WOLF CREEK 1
          GL-93-04
                           1304
   720.
                                                                                                                                              03/94
                                                                    ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                           M86880
          GL-93-04
                           L304
                                 ZION 1
   721.
                                                                    ROD CONTROL SYSTEM FAILURE & WITHDRAWAL OF RCCA'S (GL 93-04)
                                                                                                                                              03/94
                           L304
                                  210N 2
                                                           M86881
          GL-93-04
   722.
                                                                                                                                              07/97
                                                                    APPENDIX J - CONTAINMENT LEAK TESTING
                                                           M08715
          MPA-A004
                           A004
                                  BROWNS FERRY 1
   723.
                                                                                                                                              06/95
                                                                    APPENDIX J - CONTAINMENT LEAK TESTING
                                                           M08717
                           A004
                                  BROWNS FERRY 3
          MPA-A004
   724.
                                                                                                                                                1
                                                                    BLOCKED SI SIGNAL DURING COOLDOWN
                                                           M49425
                           8032
                                  HADDAM NECK
   725.
          MPA-8032
                                                                                                                                              07/97
                                                                    FIRE PROTECTION - FINAL TECH SPECS (INCLUDES SER SUPPLEMENTS)
                                                           M48134
                           8041
                                  BROWNS FERRY 1
   726.
          MPA-8041
                                                                                                                                              06/95
                                                                    FIRE PROTECTION - FINAL TECH SPECS (INCLUDES SER SUPPLEMENTS)
                                  BROWNS FERRY 3
                                                           M48136
                           8041
   727.
          MPA-8041
                                                                    SUPP 3, HRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GL89-10)
                                                                                                                                              12/93
                                                           M777775
                           8116
                                  FERMI 2
   728.
          MPA-8116
                                                                    SUPP 3, NRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GL89-10)
                                                                                                                                              12/95
                                                           M777778
                           8116
                                  HATCH 1
   729.
          MPA-8116
                                                                                                                                              12/96
                                                                    SUPP 3, HRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GL89-10)
                                                           M777779
    730.
          MPA-8116
                           8116
                                  HATCH 2
                                                                    SUPP 3, NRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GL89-10)
                                                                                                                                              10/93
                                                           M777782
    731.
          MPA-8116
                           8116
                                  LASALLE 2
                                                                                                                                              06/94
                                                                    SUPP 3, MRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GLB9-10)
                                                           M777789
                                  OYSTER CREEK 1
    732.
           MPA-8116
                           B116
                                                                                                                                              06/94
                                                                    SUPP 3, NRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GLB9-10)
                                                           M77800
                                  VERNONT YANKEE 1
    733.
           MPA-8116
                           8116
                                                                    SUPP 3, HRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GL89-10)
                                                                                                                                              09/95
                                                           M85210
    734.
           MPA-8116
                           8116
                                  VOGTLE 1
                                                                    SUPP 3, NRC SPONSORED TESTS OF MOTOR-OPERATED VALVES (GL89-10)
                                                                                                                                              09/95
                                                           M85211
                           8116
                                  VOGTLE 2
    735.
           PEPA-8116
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736.
       MPA-8117
                       8117
                              CALLAWAY 1
                                                      M81598
                                                               SUPP 2 - FAILURE OF WESTINGHOUSE SG TUBE MECHANICAL PLUGS
                                                                                                                                         1
 737.
       MPA-B117
                       8117
                              GINNA
                                                      M81622
                                                               SUPP 2 - FAILURE OF WESTINGHOUSE SG TUBE MECHANICAL PLUGS
                                                                                                                                       12/98
 738.
       MPA-8117
                       8117
                              MILLSTONE 3
                                                      M81636
                                                               SUPP 2 - FAILURE OF WESTINGHOUSE SG TUBE MECHANICAL PLUGS
                                                                                                                                       12/94
 739.
       MPA-B117
                       8117 - ZION 1
                                                      M81680
                                                               SUPP 2 - FAILURE OF WESTINGHOUSE SG TUBE MECHANICAL PLUGS
                                                                                                                                         1
 740.
       MPA-8117
                       8117
                              ZION 2
                                                      M81681
                                                               SUPP 2 - FAILURE OF WESTINGHOUSE SG TUBE MECHANICAL PLUGS
 741.
       MPA-B11S
                       8118
                              ARKANSAS 1
                                                      M83588
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
 742.
       MPA-B118
                       8118
                              ARKANSAS 2
                                                      M83589
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                         1
 743. MPA-8118
                       6118
                              BEAVER VALLEY 1
                                                      M83590
                                                               TPE EXTERNAL EVENTS (GL88-20, SUPP A)
                                                                                                                                       06/97
744. MPA-8118
                       8118
                              BEAVER VALLEY 2
                                                      M83591
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       07/99
745.
       MPA-8118
                       8118
                              BIG ROCK POINT 1
                                                      M83592
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       05/95
746. MPA-B118
                       8118
                              BRAIDWOOD 1
                                                      M83593
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                         1
747.
      HPA-B118
                       8118
                              BRAIDWOOD 2
                                                      M83594
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                         1
748.
       MPA-B118
                       B118
                              BROWNS FERRY 1
                                                      M83595
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       07/97
749.
       MPA-8118
                       8118
                              BROWNS FERRY 2
                                                      M83596
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       07/96
750.
       MPA-B118
                       B118
                              BROWNS FERRY 3
                                                      M83597
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       07/96
751.
       MPA-8118
                       8118
                              BRUNSWICK 1
                                                      M83598
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       12/95
752.
      MPA-8118
                       B118
                             BRUNSWICK 2
                                                      M83599
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       12/95
753.
      MPA-8118
                       8118
                             BYRON 1
                                                      M83600
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
754. MPA-8118
                       B118
                             BYROW 2
                                                      M83601
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
755. MPA-R118
                       B118
                             CALLAWAY 1
                                                      M83602
                                                               1PE EXTERNAL EVENTS (GL88-20, SUPP 4)
756. MPA-8118
                       8118
                             CALVERT CLIFFS 1
                                                      M83603
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
757. MPA-8118
                       8118
                             CALVERY CLIFFS 2
                                                      M83604
                                                               IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
758, MPA-8118
                      8118
                             CATAWBA 1
                                                      M83605
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
759. MPA-8118
                      B118
                             CATAWBA 2
                                                      M83606
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
760. MPA-B118
                      B118
                             CLINTON 1
                                                     M83607
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
761. MPA-B118
                      8118
                             COMANCHE PEAK 1
                                                     M83608
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
762. MPA-8118
                      8118
                             COOK 1
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                     M83609
                                                                                                                                       12/93
763. MPA-8118
                      2118
                             COOK 2
                                                     M83610
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       12/93
764. MPA-8118
                      8118
                             COOPER STATION
                                                     M83611
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       12/95
765. MPA-8118
                      8118
                             CRYSTAL RIVER 3
                                                     M83612
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                         1
766. MPA-8118
                      8118
                             DAVIS-BESSE 1
                                                     M83613
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       09/95
767. MPA-B118
                      8118
                             DIABLO CANYON 1
                                                     M83614
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       01/96
768. MPA-8118
                      B118
                             DIABLO CANYON 2
                                                     M83615
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                       01/96
769.
      MPA-8118
                      8118
                             DRESDEN 2
                                                     网络3616
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
770.
      MPA-8118
                      8118
                             DRESDEN 3
                                                     H83617
                                                              IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
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1
                                                         #83618
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                DUANE ARNOLD
  771.
         MPA-8118
                         8118
                                                                                                                                            06/95
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         M83619
  772.
         MPA-8118
                         8118
                                 FARLEY 1
                                                                                                                                            06/95
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                 FARLEY 2
                                                         M83620
  773.
         MPA-B118
                         8118
                                                                                                                                            06/95
                                                         N83621
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                 FERMI 2
  774.
         MPA-8118
                         8118
                                                                                                                                              1
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         M83622
         MPA-8118
                                FITZPATRICK
  775.
                          8118
                                                                                                                                            05/95
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         M83624
  776.
         MPA-8118
                         8118
                                 GINNA
                                                                                                                                            12/95
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 GRAND GULF T
                                                         M83625
  777.
         MPA-8118
                                                                                                                                             1
                                                         M83626
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 6)
                          8118
                                 HADDAM NECK
  778.
         MPA-8118
                                                                                                                                            06/96
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         M83627
                          8118
                                 HARRIS 1
  779.
         MPA-8118
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                            12/95
                                                         M83628
                                 HATCH 1
  780.
         MPA-8118
                          8118
                                                                                                                                            06/95
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         M83629
  781.
         MPA-8118
                          B118
                                 HATCH 2
                                                                                                                                            02/96
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                 HOPE CREEK 1
                                                         M83630
  782.
         MPA-8118
                          8118
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                 S THIOS HAIGHI
                                                         M83631
  783.
         MPA-8118
                          8118
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
O 784.
         MPA-8118
                                 INDIAN POINT 3
                                                         M83632
                          8118
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                 KEWAUNEE
                                                         M83633
  785.
         MPA-B118
                          8118
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
         MPA-B118
                          8118
                                 LASALLE 1
                                                         M83634
  786.
                                 LASALLE 2
                                                         M83635
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          B118
  787.
         MPA-8118
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 LIMERICK 1
                                                         M83636
         MPA-8118
  788.
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 LIMERICK 2
                                                         M83637
  789.
         MPA-8118
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 MAINE YANKEE
                                                         M83638
  790.
         MPA 8118
                          8118
                                 MCGUIRE 1
                                                         M83639
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  791.
         MPA-8118
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 MCGUIRE 2
                                                         M83640
  792.
         MPA-8118
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 MILLSTONE 1
                                                         M83641
   793.
         MPA-8118
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         483642
   794.
         MPA-8118
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                                 MILLSTONE 2
                                                                                                                                            12/93
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 MILLSTONE 3
                                                         M53643
   795.
         MPA-8118
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                                                         M83644
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
         MPA-8118
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                                 MONTICELLO
   796.
                                                                                                                                              1
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                         M83645
   797.
         MPA-B118
                          8118
                                 WINE MILE POINT 1
                                                                                                                                              1
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                 HINE MILE POINT 2
                                                         #83646
   798.
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                          8118
                                                                                                                                            12/95
                                                         M83647
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   799.
         MPA-8118
                          8118
                                 HORTH ANNA !
                                                                                                                                            12/95
                          8118
                                 NORTH ANNA 2
                                                         M83648
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   800.
         MPA-8118
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                                                         M83649
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
                                 OCOMEE 1
   801.
         MPA-8118
                                                                                                                                            12/95
                                 OCOMEE 2
                                                         M83650
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
         MPA-B118
                          B118
   802.
                                                                                                                                            12/95
                                 OCONEE 3
                                                         M83651
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                          8118
   803.
          MPA-8118
                                                                                                                                              1
                                 OYSTER CREEK 1
                                                         M83652
                                                                   IPE EXTERNAL FYENTS (GL88-20, SUPP 4)
   804.
          MPA-8118
                          8118
                                                                                                                                              1
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
          MPA-8118
                          8118
                                 PALISADES
                                                         M83653
   805.
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806.
          MPA-8118
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                                 PALO VERDE 1
                                                         M83654
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           12/94
   807.
          MPA-8118
                          8118
                                 PALO VERDE 2
                                                         M83655
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           12/94
   808.
          MPA-8118
                          8118
                                 PALO VERDE 3
                                                         M83656
                                                                   IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           12/94
   809.
          MPA-8118
                          8118
                                 PEACH BOTTOM 2
                                                         M83657
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                             1
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                                 PEACH BOTTOM 3
          MPA-8118
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                                                         M83658
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   811.
         MPA-8118
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                                 PERRY 1
                                                         M83659
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   812.
         MPA-8118
                          B118
                                PILGRIN 1
                                                         MB367-0
                                                                  IPE EXTERNAL EVENT 3 (GL88-20, SUPP 4)
                                                                                                                                           12/99
   813.
         MPA-3118
                          B118
                                 POINT BEACH 1
                                                         M83661
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   814.
         MPA-8118
                          8118
                                 POINT REACH 2
                                                         M83662
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   815. MPA-8118
                          8118
                                 PRAIRIE ISLAND 1
                                                         M83663
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   816.
         MPA-8118
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                                 PRAIRIE ISLAND 2
                                                         M83664
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
         MPA-8118
                          B118
                                 QUAD CITIES 1
                                                         M83665
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   818.
         MPA-B118
                          B118
                                 QUAD CITIES 2
                                                         M83666
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  819.
         MPA-8118
                          8118
                                 RIVER BEND 1
                                                         M83667
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
B 820.
         MFA-8118
                          8118
                                 ROBINSON 2
                                                         M83668
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   821.
         MPA-B118
                          8118
                                SALEM 1
                                                         M83669
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   822.
         MPA-8118
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                                SALEM 2
                                                         M83670
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   823.
         MPA-8118
                          8118
                                 SAM ONOFRE 2
                                                         M83671
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   824.
         MPA-8118
                          8118
                                SAN ONOFRE 3
                                                         M83672
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
   825.
         MPA-B118
                          8118
                                SEABROOK 1
                                                         M83673
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           12/93
         MPA-8118
   826.
                          8118
                                SEQUOYAR 1
                                                         M83674
                                                                  IPE EXTERNAL EVENTS (GLS8-20, SUPP 4)
                                                                                                                                           06/95
  827.
         MPA-8118
                          8118
                                SEQUOYAH 2
                                                         M83675
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           06/95
  828.
         MPA-8118
                          B118
                                 SOUTH TEXAS 1
                                                         M83676
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           01/96
  829.
         MPA-8118
                          B118
                                 SOUTH TEXAS 2
                                                         M83677
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           01/96
  830.
         MPA-B118
                          8118
                                ST LUCIE 1
                                                         M83678
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  831.
         MPA-8118
                          8118
                                ST LUCIE 2
                                                         M83679
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
         MPA-8118
  832.
                          8118
                                 SUPPLER 1
                                                         M83680
                                                                  IPE EXTERNAL EVENTS (GLS8-20, SUPP 4)
  833.
         MPA-3118
                         8118
                                SURRY 1
                                                         M83681
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  834.
         MPA-8118
                         8118
                                SURRY 2
                                                         M83682
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  835.
         MPA-8118
                         8118
                                 SUSQUEHANNA 1
                                                         M83683
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  836. MPA-8118
                         8118
                                SUSQUEHANNA 2
                                                         M83684
                                                                  IPE EXTERNA EVENTS (GL88-20, SUPP 4)
  837. MPA-B118
                         $118
                                THREE MILE ISLAND 1
                                                         M83685
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
  838.
       MPA-8118
                         8118
                                TURKEY POINT 3
                                                         M83687
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           12/95
         MPA-B118
  839.
                         8118
                                 TURKEY POINT 4
                                                         M63688
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                                                                                                           12/95
  840.
        MPA-8118
                         8118
                                VERMONT YANKEE 1
                                                         M83689
                                                                  IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
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841.
      MPA-8118
                       8118
                              VOGTLE 1
                                                       M83690
                                                                IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
842.
      MPA-8118
                       B118
                              VOGTLE 2
                                                       M83691
                                                                IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                       M83695
                                                                IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
843.
      MPA 8118
                       8118
                              WASHINGTON NUCLEAR 2
                                                       M83692
                                                                IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
844.
      MPA-8118
                       8118
                              WATERFORD 3
                                                                IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                       M83696
845.
      MPA-8118
                       8118
                              WOLF CREEK 1
                                                                IPE EXTERNAL EVENTS (GL88-20, SUPP 4)
                                                       M83697
846
      MPA-8118
                       B118
                              Z10W 1
      MPA-8118
                       B118
                              210N 2
                                                       M83698
                                                                IPE EXTERNAL EVENTS (GL88 20, SUPP 4)
847.
                                                                                                                                         12/94
                                                       M85352
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
      MPA-B122
                       8122
                              ARKANSAS 1
848.
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12/94
                                                       M85353
       MPA-8122
                       B122
                              ARKANSAS 2
849.
                                                                                                                                         12/93
                                                                RESPONSE TO 8-90-01. LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
                                                       M85354
                       B122
                              BEAVER VALLEY 1
850
       MPA-8122
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12/93
                                                       M85355
       MPA-8122
                       B122
                              BEAVER VALLEY 2
851.
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                         12/94
                              BIG ROCK POINT 1
                                                       M85358
852.
      MPA-8122
                       8122
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12/94
      MPA-B122
                       B122
                              BRAIDWOOD 1
                                                       M85359
853.
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12/94
                       B122
                              BRAIDWOOD 2
                                                       M85360
854.
       MPA-8122
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12/93
                              BROWNS FERRY 1
                                                       M85361
855.
       MPA-8122
                       8122
                                                                                                                                         12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
       MPA-B122
                       B122
                              BROWNS FERRY 2
                                                       M85362
856.
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEROUNT TRANS (XOO1)
                                                                                                                                         12/93
                                                       M85363
       MPA-8122
                       B122
                              RROAMS FERRY 3
857.
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                         12/93
      MPA-8122
                       B122
                              BYRON 1
                                                       M85366
858.
                                                                                                                                         12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                       M85367
      MPA-8122
                       8122
                              S MCRYB
859.
                                                                                                                                         12/94
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
      MPA-8122
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                              CALLAWAY 1
                                                       M85368
860.
                                                                                                                                         12/93
                                                       M85371
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
      MPA-8122
                       B122
                              CATAWBA 1
861.
                                                                                                                                         12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                       M85372
      MPA-B122
                       8122
                              CATAWEA 2
862.
                                                                                                                                          2/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                       M85373
      MPA-B122
                       8122
                              CLINTON 1
863.
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12,74
                                                       M85374
      MPA-B122
                       8122
                              COMANCHE PEAK 1
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOANT TRANS (XOO1)
                                                                                                                                         12/51
                                                       M85378
       MPA-8122
                       B122
                              COOPER STATION
865.
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                         12/93
                                                       M85379
       MPA-8122
                       8122
                              CRYSTAL RIVER 3
866.
                                                                RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
                                                       M85380
       MPA-B122
                       8122
                              DAVIS-BESSE 1
867.
                                                                                                                                          12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                       M85381
868.
       MPA-8122
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                              DIABLO CANYON 1
                                                                                                                                          12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                              DIABLO CANYON 2
                                                       M85382
869.
       MPA-8122
                       8122
                                                                                                                                          12/93
                                                                RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOC1)
                                                       M85383
                              DRESDEN 2
870.
      MPA-B122
                       B122
                                                                                                                                          12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                       1485384
                              DRESDEN 3
871.
      MPA-B122
                       8122
                                                                                                                                          12/93
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                       M85386
                       8122
                              FARLEY 1
872. MPA-8122
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
                                                       M85387
873. MPA-8122
                       8122
                              FARLEY 2
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          03/94
                       B122
                              FERNI 2
                                                       M85388
      MPA-8122
874.
                                                                RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
                                                       M85389
                       8122
                              FITZPATRICK
875. MPA-8122
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876.
         MPA-8122
                         8122
                                GINNA
                                                        M85391
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
         MPA-B122
                         B122
   877.
                                GRAND GULF 1
                                                        M85392
                                                                 RESPONSE TO B-90-01. LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          01/94
         MPA-8122
   878.
                         B122
                                HARRIS 1
                                                        M85394
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/94
   879. MPA-8122
                         R122
                                HATCH 1
                                                        M85395
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/95
   880. MPA-8122
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                                HATCH 2
                                                        M85396
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                                                                                                                                          12/95
   881. MPA-8122
                         B122
                                HOPE CREEK 1
                                                        M85397
                                                                 RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   882.
         MPA-B122
                         8122
                                INDIAN POINT 2
                                                        M85398
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
         MPA-B122
   883
                         8122
                                INDIAN POINT 3
                                                        M85399
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   884. MPA-8122
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                                LASALLE 1
                                                        M85401
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL CIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/94
   885. MPA-B122
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                                LASALLE Z
                                                        M85402
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/94
   886.
        MPA-8122
                         8122
                                LIMERICK 1
                                                        M85403
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          01/95
   887. MPA-8122
                         8122
                                LIMERICK 2
                                                        M85404
                                                                 RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          01/95
   888.
        MPA-B122
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                                MAINE YANKEE
                                                        M85405
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
O 889.
         MPA-8122
                         B122
                                MCGUIRE 1
                                                        M85406
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/94
N 890.
         MPA-8122
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                                MCGUIRE 2
                                                        M85407
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                                                                                                                                          12/94
   891.
         MPA-8122
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                                MILLSTONE 2
                                                        M85409
                                                                 RESPONSE TO B-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/94
   892. MPA-B122
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                                MILLSTONE 3
                                                        M85410
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          01/95
   893. MPA-8122
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                                MONTICELLO
                                                        M85411
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
   894. MPA-B122
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                                WINE MILE POINT 1
                                                        M85412
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   895. MPA-8122
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                                NINE MILE POINT 2
                                                        M85413
                                                                 RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
   896.
        MPA-8122
                         8122
                                NORTH ANNA 1
                                                        M85414
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   897. MPA-8122
                         8122
                                HORTH ANNA 2
                                                        M85415
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   898. MPA-8122
                         8122
                                OCCNEE 1
                                                        M85416
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   899. MPA-B122
                         B122
                                OCONEE 2
                                                        M85417
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
   900. MPA-8122
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                                OCCNEE 3
                                                        M85418
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
   901. MPA-B122
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                                PALISADES
                                                        M85420
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
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   902. MPA-8122
                         8122
                                PALO VERDE 1
                                                        M85421
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOC1)
                                                                                                                                          12/93
   903. MPA-8122
                         B122
                                PALO VERDE 2
                                                        M85422
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
   904. MPA-8122
                         8122
                                PALO YERDE 3
                                                        M85423
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   905.
         MPA-8122
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                                PEACH BOTTOM 2
                                                        M85424
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1)
                                                                                                                                          12/93
   906.
        MPA-B122
                         8122
                                PEACH BOTTOM 3
                                                        M85425
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   907. MPA-B122
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                                PERRY 1
                                                        M85426
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/94
   908. MPA-8122
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                                PILGRIM 1
                                                        M85427
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL CIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/94
   909. MPA-B122
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                                PRAIRIE ISLAND 1
                                                        M85430
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001)
                                                                                                                                          12/93
   910. MPA-8122
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                                PRAIRIE ISLAND Z
                                                        M85431
                                                                 RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001)
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	911.	MPA-B122	8122	QUAD CITIES 1	M85432	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	912.	MPA-8122	8122	QUAD CITIES 2	M85433	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1) 12/	94
	913.	MPA-8122	8122	RIVER BEND 1	M85434	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	914.	MPA-8122	8122	ROBINSON 2	M85435	RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001) 12/	93
	915.	MPA-B122	8122	SALEM 1	M85436	RESPONSE TO B-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001) 12/	93
	916.	MPA-B122	B122	SALEM 2	M85437	RESPONSE TO B-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (X001) 12/	93
	917.	MPA-8122	B122	SAN ONOFRE 2	M85439	RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1) 12/	93
	918.	MPA-8122	B122	SAN ONOFRE 3	M85440	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	919.	MPA-B122	8122	SEABROOK 1	M85441	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	920.	MPA-B122	B122	SEQUOYAH 1	M85442	RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	
	921.	MPA-B122	8122	SEQUOTAH 2	M85443	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	922.	MPA-8122	B122	SOUTH TEXAS 1	M85444	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	923.	MPA-B122	8122	SOUTH TEXAS 2	M85445	RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOD1) 12/	93
D	924.	MPA-8122	8122	ST LUCIE 1	M85446	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
N	925.	MPA-8122	B122	ST LUCIE 2	M85447	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
W	926.	MPA-B122	B122	SUMMER 1	M85448	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XGO1) 12/	93
	927.	MPA-8122	8122	SURRY 1	M85449	RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	928.	MPA-8122	B122	SURRY 2	M85450	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	929.	MPA-8122	B122	SUSQUEHANNA 1	M85451	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	95
	930.	MPA-B122	8122	SUSQUEHANNA 2	M85452	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	95
	931.	MPA-8122	8122	THREE MILE ISLAND 1	M85453	RESPONSE TO 8-90-01, LOSS OF FILL DIL IN ROSEMOUNT TRANS (XOO1) 12/	93
	932.	MPA-8122	8122	TURKEY POINT 3	M85454	RESPONSE TO B-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	933.	MPA-8122	8122	TURKEY POINT 4	M85455	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (XOO1) 12/	94
	934.	MPA-8122	8122	VERMONT YANKEE 1	M85456	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	935.	MPA-8122	8122	VOGTLE 1	M85457	RESPONSE TO 8-99-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	936.	MPA-B122	8122	VOGTLE 2	M85458	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	937.	MPA-B122	8122	WASHINGTON MUCLEAR 2	M85462	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	94
	938.	MPA-8122	8122	WOLF CREEK 1	M85463	RESPONSE TO R-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	939.	MPA-8122	8122	Z10H 1	M85464	RESPONSE TO 8-90-01, LOSS OF FILL OIL IN ROSEMOUNT TRANS (X001) 12/	93
	940.	MPA-B122	8122	210H 2	M85465	RESPONSE TO 8-90-01, LOSS OF FILL GIL IN ROSEMOUNT TRANS (XOCT) 12/	93
	941.	MPA-C011	C011	BROAMS FERRY 3	M08931	RPS POWER SUPPLY 06/	95

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