



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA STREET, N.W., SUITE 2900  
ATLANTA, GEORGIA 30323-0199  
February 21, 1995

MEMORANDUM TO: William T. Russell, Director  
Office of Nuclear Reactor Regulation

FROM: Stewart D. Ebnetter, Regional Administrator *Stewart D. Ebnetter*

SUBJECT: TENNESSEE VALLEY AUTHORITY (TVA) - WATTS BAR UNIT 1  
DOCKET NO. 50-390, STATUS OF FACILITY COMPLETION,  
SECOND REPORT

This memorandum summarizes the status of key inspection activities which need to be completed prior to licensing for Watts Bar, Unit 1.

1. CONSTRUCTION INSPECTION

1.1 Corrective Action and Special Programs (CAPs & SPs)

There are twenty-eight CAPs & SPs. There has been at least some inspection of each CAP or SP; 10 CAPs and SPs have been closed after inspection by the NRC established that they had been acceptably implemented<sup>1</sup>; 18<sup>2</sup> require additional inspection. The status of the CAP and SP inspections is shown in the enclosed chart (Attachment 1).

Analysis of problems identified by CAP and SP inspections conducted to date indicated that problems appeared most often in the electrical and instrumentation areas. We have held meetings with TVA on each CAP and SP for which the inspection results indicated that TVA has had problems achieving the committed objectives. TVA has increased their management oversight of CAPs and SPs in order to assure adequate completion. Recent inspection results (e.g., inspections of the DBVP CAP, the Conduit CAP, and the Cable Tray Support CAP and routine resident inspector oversight) led us to conclude that CAP and SP objectives are being achieved.

The staff intends to continue an aggressive inspection approach, performing in progress inspections of CAP and SP attributes. We have assigned a lead inspector for each of 17 open CAPs and SPs<sup>3</sup> for which Region II has lead responsibility. One SP (Detailed Control Room Design

---

<sup>1</sup> NRC completion of a CAP or SP inspection does not mean that there might not be outstanding (i.e., "punchlist") items to be completed by TVA for the CAP or SP.

<sup>2</sup> The EQ/MEQ is actually two CAPs, although it is a single line item in Attachment 1.

<sup>3</sup> NRR did the original Replacement Parts (RIPCAP) inspection, but Region II will lead the closure inspection, with assistance from NRR.

Review) will be audited by NRR. CAPs and SPs scheduled for near term inspections are:

Vendor Information - Feb 13 (One week to determine progress)

Equipment Qualification - Feb 27 (Two week team with NRR assistance)

## 1.2 Inspection Manual Chapter 2512 Reconstitution

The reconstitution of Inspection Manual Chapter 2512 is finally showing progress. Results to date, as delineated in Attachment 2, have identified that several areas, such as Structural Steel Supports, Fire Protection<sup>4</sup>, Welding and NDE, and Inservice Inspection can be completed through the initial document reviews and a minimum of re-inspection effort. Other areas, though, such as Geotechnical/Foundations, and Structural Concrete may require additional inspection and review. Ongoing reviews have revealed that many of the remaining areas have had sufficient inspection activity so that reconstitution should be possible by completion of reviews of post 1985 inspections.

The reconstitution of Manual Chapter 2512 welding inspection procedures was recently completed as was the NRC inspection of the welding CAP. Although different inspectors were utilized, the inspection results of these two related areas were consistent. The Region is continuing to inspect on-going, construction and modification related welding and the final closure of "punchlist" items remaining on the welding CAP.

To date, the review of allegation files have not revealed significant problems relative to the 2512 reconstitution. This is probably because most allegations pre-date the inspections we have been able to use in the 2512 reconstitution. For recent allegations, the inspection efforts have been well documented and complete.

## 2. OPEN ITEMS INSPECTIONS

There are 246 Open Items for Watts Bar, Unit 1. These Open Items are comprised of Violations, Unresolved Items, Inspector Follow Up Items, TMI Items, Bulletins, and Construction Deficiency Reports. The Open Items have been divided into two groups: the construction group, which contains 172 items at present and the operations group, which consists of 74 items.

The reduction in the overall number of construction group open items has been scheduled to correspond to TVA's rate of work completion. Inspections in the early fall of 1994 resulted in findings that the corrective actions for several open items, which were nominally

---

<sup>4</sup> There is extensive inspection of the fire protection area related to the Fire Protection CAP which remains to be completed. Completion of this is dependent on TVA progress in this area.

completed, contained deficiencies. These deficiencies included hardware items which were not fully corrected and preventative programs, put in place to identify and correct problems, which were inadequately implemented. Future inspection will be used to verify the effectiveness of TVA's remedial actions.

The average number of hours to inspect and close an open item increased significantly during the late summer and early fall of 1994. This occurred during the period when our inspections revealed problems in TVA's closures. Inspection time for each item is expected to decrease markedly as a result of TVA's corrective actions.

The operations group open items are generally of more recent origin, and they tend to be specific and related to operational readiness or testing. On average the operations group open items have required less inspection effort to close than most items in the construction group. Inspection to close the operations group open items is therefore not considered to be a problem affecting licensing at this time. A list of the open items in both the construction and operations group is enclosed for information (Attachment 3).

TVA has 17860 items on their master open item list<sup>5</sup> that are nominally targeted for closure by TVA to support licensing. This is down forty percent (from the 29322 licensee items reported open in my memorandum to you dated June 16, 1994). We shall review TVA's characterization of these open items and inspect to verify the effectiveness and quality of TVA's process for closing them.

### 3. PRE-OPERATIONAL AND STARTUP TESTING INSPECTIONS

#### 3.1 Pre-operational Testing

TVA has made progress in pre-operational testing. Of the 126 pre-operational tests identified, 72 tests are field complete, and 34 of these field complete tests have been reviewed and accepted by the Joint Test Group.

We have inspected Open Vessel Testing, the initial hot functional testing, the Containment Integrated Leak Rate Test, the parts of Reactor Protection System testing completed to date, and the Integrated Safeguards Test sequence. We will closely follow the second hot functional testing, which is scheduled to be conducted prior to licensing. This sequence will test those components which either were not tested during the April-June 1994 hot functional testing sequence or which failed in some manner. NRR is also planning to observe operator performance with a readiness team during this testing.

We have closely monitored pre-operational testing. We have inspected far more than the minimum program of Manual Chapter 2513 (see Attachment

---

<sup>5</sup> As of February 7, 1995

4). We have noted that during the conduct of major test evolutions, for which there is significant TVA management interest and involvement, performance has generally been good. Our inspections have revealed some problems in preparation of procedures for routine, smaller scope tests. Results of inspections have also led us to criticize the performance the Joint Test Group. We believe that the root cause for these findings has been undue haste on the part of TVA to complete the pre-operational test program.

### 3.2 Startup Testing

TVA has identified 55 test procedures needed for startup and power ascension. We have just started to review these procedures. We shall assess the quality of these procedures based on our initial reviews in a subsequent 94300 report. Although review of all startup and power ascension procedures is not required by the Manual Chapter 2514 inspection program, our plan is to exceed minimum requirements.

## 4. OPERATIONAL READINESS INSPECTIONS

The inspection of the licensee's programmatic and personnel readiness to operate the plant is approximately 50% complete. A schedule of the programmatic operational readiness (i.e., non-pre-operational test) inspection procedures of MC 2513 is enclosed (Attachment 5). This schedule shows the status of specific inspections. When an area is indicated as complete, it may be inferred that the area was found to be acceptable. One feature on this inspection program is the use of six senior and resident inspectors from operational sites on a rotating basis. The inspections provided by this group provide an operational perspective and feedback.

TVA has been slow to put their permanent procedures in place and has conducted integrated testing using temporary operating procedures. This has hampered our ability to validate either Watts Bar procedures independently or TVA's ability to train their operators on the permanent procedures. TVA plans to put their plant procedures in effect for each system as it is turned over to plant operations and has committed to conduct the second hot functional testing only after these turnovers are substantially completed. This will provide an inspection opportunity to gauge procedure quality under near operating conditions.

Region II has reviewed the MC 2515 Temporary Instructions delineated in the Inspection Manual and, after consultation with your staff selected the ones believed appropriate to be completed prior to licensing. A list of these Temporary Instructions is provided in Attachment 6.

TVA has sufficient licensed operators to support the planned five shift rotation. The operators improved their performance during the initial hot functional testing (April-May 1994), but the staff concluded that further development of operator communication effectiveness and system awareness were needed to demonstrate adequate operational readiness. An

NRR-led team observed operator performance during the Integrated Test Sequence and reached similar conclusions. In addition to the daily NRC field observations, the second hot functional testing should provide the appropriate mechanism for evaluating operator performance.

5. ALLEGATIONS

There have been over 800 allegations affecting Watts Bar since March 1, 1985; many had multiple concerns. Of these, 54 are currently open, and 4<sup>6</sup> have been received this year. Of the open allegations, only 27 are open for technical evaluation. Region II has reviewed the assignment of allegations to individual inspectors and has changed some assignments in order to equalize workloads and expedite technical review and resolution. Additional details on allegations can be provided separately as needed.

6. SIGNIFICANT TECHNICAL ISSUES

6.1 Fire Protection

TVA is currently revising their Fire Protection Report and stated the intention to submit it to NRR for staff review on March 10. TVA relies on Thermolag extensively at Watts Bar, but installation of this has barely begun. Completion of the fire protection installation may be a controlling item in completing construction.

6.2 Electric Cable Splices

Recent questions have surfaced as to the adequacy of installed cable splices. One of these questions pertains to the adequacy of connectors rated for 600 V being used in 6900 V applications. This issue is further complicated by workmanship deficiencies, introduced during the splicing activities. The resolution of this issue is under review by the staff (NRR with input from the resident inspector). In addition, TVA has identified poor workmanship on low voltage (480 V) splices.

Attachments: (See page 6)

---

<sup>6</sup> One was a DOL complaint without technical concerns.

W. Russell

6

Attachments: 1. CAP & SP Inspection Status  
2. MC 2512 Review Schedule  
3. NRC Open Items  
4. Pre-operational Test Status  
5. Readiness Inspections  
6. Temporary Instructions to be Inspected

cc w/atts:

L. A. Reyes, RII  
E. W. Merschoff, RII  
A. F. Gibson, RII  
J. P. Stohr, RII  
J. R. Johnson, RII  
B. S. Mallett, RII  
J. P. Jaudon, RII  
R. P. Zimmerman, NRR  
S. A. Varga, NRR  
F. J. Hebdon, NRR  
P. S. Tam, NRR

# CAP/SP COMPLETION STATUS

UPDATED FEBRUARY 13, 1995

CAP/SP	NRC STATUS/CLOSURE	INSPECTOR	75% BOOK RECEIPT/INSP CONDUCTED	CLOSURE INSP. CONDUCTED OR INSPS. PLANNED
Heat Code Traceability No Book	Closed by Hdq. 90-02 (Georgiev)		NA	7/93 Insp. Conducted
Concrete Quality Program	Closed by Hdq. 90-26	No Book	NA	8/94 Insp. Conducted (Closure)
Seismic Analysis	Closed by Hdq. 90-26	No Book	NA	12/94 SHAR Program Completed
Use-As-Is CAQs	100% Complete IR 93-10	(Little)	NA	7/92 Insp. Conducted
Soil Liquefaction	100% Complete 1/21/93 No Book IR 92-45 100%	Walton)	NA	7/92 Insp. Conducted
Welding Issues	Closure Insp 12/13/94 IR 94-79. 100% Book only	Crowley)	NA	17/94 Insp. Conducted w/Shutdown
Master Fuse List	100% Comp. 4/9/93 IR 93-31 (Lara) 75% Comp. IR 92-27		No 75% Book	4/93 Insp. Conducted
Detailed Control Room Design Review	Screen rev. comp. 11/18/94 (West) No Book		NA No 75% Audit Planned	3/95 Planned (Closure)
Replacement Items	90% complete 7/20/94 IR 94-201 (Hdq.)	Pettis)	11/91 Insp. Conducted	4/95 Planned (Gibbs) RII & NRR
Microbiologically Induced Corrosion	100% complete 10/1/93 IR 93-09 75% IR 93-67 100%	Humpfrey)	1/93 Insp. Conducted	8/93 Insp. Conducted
Hanger and Analysis Update Program	75% complete 6/21/93 IR 93-45	Glasman)	2/92 Insp. Conducted	Continuous. 4/95 Planned **
Vendor Information (M)	75% complete 5/14/93 IR 93-27	Thomas)	2/93 Insp. Conducted	2/95 In Progress
QA Records	100% complete 5/13/94 IR 94-40 100%	Gibbs)	5/1/93 Actual No 75% Insp. Conducted	4/94 Insp. Conducted
Design Baseline and Verification Program	75% complete 9/17/93 IR 93-66 75% IR 94-69 Re-inspection	Girard)	4/93 Insp. Conducted	4/95 Planned (Closure)
Fire Protection	RII Insp started 10/3/94 (Miller)		5/24/93 Actual No 75% Insp. Conducted	Continuous 5/95 Planned. RII & NRR
Q-List	75% complete IR 93-68 10/15/93 (Gibbs) 100% complete IR 94-27 3/25/94		7/93 Insp. Conducted	1/94 Insp. Conducted
Equipment Seismic	75% complete 1/28/94 IR 93-75	Moore)	8/91 Insp. Conducted	3/95 Planned
Instrument Lines (M)	75% Complete 8/20/94 IR 94-24	Glasman)	1/94 Insp. Conducted	Continuous. 4/95 Planned **
*Equipment Qual./Mech. EQ	Prog. Insp 12/16/94 IR 94-74. rescn. from 10/31/94	Merrilweather)	2/28/94 Actual No 75% Insp. Conducted	3/94 Planned, RII & NRR
Electrical Issues (M)	75% completed 8/5/94 IR 94-53	Lara)	1/31/94 Actual IR rescinded 1/22/94 7/6/94 resubmitted	Continuous
Mod Energy Line Break	75% complete 12/16/93 IR 93-85	Brady)	7/93 Insp. Conducted	4/95 Planned ** (Closure)
HVAC Duct and Supports	75% complete 1/31/94 IR 94-08	(Glasman)	1/94 Insp. Conducted	Continuous. 4/95 Planned **
Elect Conduit/Supports	75% complete 10/7/94 IR 94-64	(Glasman)	1/94 Insp. Conducted	Continuous. 4/95 Planned **
Cable Tray/Supports	75% complete 10/28/94 IR 94-64	(Glasman)	1/94 Insp. Conducted	Continuous. 4/95 Planned **
Containment Cooling	75% complete 8/21/93 IR 93-56	Walton)	7/93 Insp. Conducted	4/95 Planned ** (Closure)
Radiation Monitoring (M)	75% Complete 9/9/94 IR 94-56	(Kuzo)	1/93 Insp. Conducted	Continuous. 4/95 Planned **
Cable Issues (M)	75% completed 8/5/94 IR 94-53	(Lara)	1/94 Insp. Conducted	Continuous

SHADED = NRC INSPECTION COMPLETE  
(M) = MEETINGS HELD WITH TVA

\* = EQ/MEQ ARE 2 CAPS  
\*\* = MECH. TEAM INSP. 4/95

Attachment 1

MC 2512 Inspection Program Reconstitution Status

<u>Procedure No. / Title</u>	<u>Percent Complete</u>	<u>Est. Compl. Date</u>
<u>Management Meetings</u>		
300508 CP Corp. Mgt. Mtg.	NA	-
30702B Management Meetings	100	(On going)
<u>Quality Assurance</u>		
35020 Audit of Applicant's Surveillance of Contractor QA/QC Activities	90	3/15
35051B Site Erected Reactor Vessels Review of QA Implementing Procedures	NA	-
35060 Licensee Management of QA Activities	50	3/15
35061 In-Depth QA Inspection of Performance	0	TBD
35065 Procurement, Receiving, & Storage	100	
35100 Review of QA Manual	80	3/30
35960 QA Prog. Evaluation of Engr. Serv. Org.	90	3/15
<u>Organization and Administration</u>		
36100 Part 21 Inspection	100	
<u>Design and As-Built Verification</u>		
37051 Verif. of As Builts	95	3/15 <sup>2</sup>
37055 On-site Design Act.	95	3/15 <sup>3</sup>
<u>Fire Prevention and Protection</u>		
42051 Fire Prot./Prev. Procedures	NA	(Delayed)

<sup>1</sup> Includes estimated time to issue Inspection Report

<sup>2</sup> Complete except for review of allegation file.

<sup>3</sup> See Footnote 2

<u>Procedure No. / Title</u>	<u>Percent Complete</u>	<u>Est. Compl. Date</u>
<u>Geotechnical/Foundation Activities</u>		
45051 Procedure Review	0	TBD <sup>4</sup>
45053 Work Observation	0	TBD
45055 Record Review	0	TBD
<u>Structural Concrete</u>		
46051 Procedure Review	0	TBD <sup>5</sup>
46053 Work Observation	50	TBD
46055 Record Review	75	TBD
46061 Masonry Const.	80	TBD
46071 CEAs	80	TBD
<u>Containment (Post-Tensioning)</u>		
47051 Procedure Review	NA	
47053 Work Observation	NA	
47055 Record Review	NA	
<u>Structural Steel And Supports</u>		
48051 Procedure Review	60	TBD <sup>6</sup>
48053 Work Observation	60	TBD
48055 Record Review	40	TBD
<u>React. Cool. Pr. Boundary Piping</u>		
49051 QA Review	70	3/15

<sup>4</sup> Re-assigned inspection responsibility; completion date to be determined.

<sup>5</sup> See footnote 4.

<sup>6</sup> See Footnote 4.

<u>Procedure No. / Title</u>	<u>Percent Complete</u>	<u>Est. Compl. Date</u>
49053 Work Observation	60	3/15
49055 Record Review	50	3/15
<u>Safety Related Piping</u>		
49061 QA Review	80	3/15
49063 Work Observation	80	3/15
49065 Record Review	80	3/15
<u>Mechanical Components and Equipment</u>		
50051 RV and Internals - QA Review	20	4/15
50053 RV and Internals - Vessel	20	4/15
50055 RV and Internals - Record Review	20	4/15
50071 Safety Related Comp. Procedure Review	60	4/15
50073 Safety Related Comp. Work Observation	60	4/15
50075 Safety Related Comp. Record Review	65	4/15
50082B Site Erected RV - Procedures	NA	
50083B Site Erected RV - Work Observation	NA	
50085B Site Erected RV - Record Review	NA	
50090 Pipe Support and Restraint Systems	55	4/15
50095 Spent Fuel Storage Racks	90	3/15
50100 HVAC Systems	50	4/15
<u>Electrical Components and Systems</u>		
51051 Elec. Components Procedure Review	80	3/30
51053 Elec. Components Work Obs.	80	3/15
51055 Elec. components Record Review	90	3/15
51061 Elec. Cable Procedure Review	80	3/30
51063 Elec. Cable Work Observation	80	3/15

<u>Procedure No. / Title</u>	<u>Percent Complete</u>	<u>Est. Compl. Date</u>
51065 Elec. Cable Record Review	90	3/15
<u>Instruments Components and Systems</u>		
52051 Instr. Comp. Procedure Review	20	4/15
52053 Instr. Comp. Work Observation	20	4/15
52055 Instr. Comp. Record Review	20	4/15
<u>Containment Penetrations</u>		
53051 Procedure Review	80	3/30
53053 Work Observation	80	3/30
53055 Record Review	80	3/30
<u>Welding and NDE</u>		
55050 Nuclear Welding General	100	
55093B RV Internals Weld Work Obs.	100	
55100 Structural Welding General	100	
55150 Weld Verification	100	
57050 NDE - Visual	95	3/15
57060 NDE - PT	95	3/15
57070 NDE - MT	30	3/30
57080 NDE - UT	30	3/30
57090 NDE-RT	100	
<u>Containment Structural Integrity Test</u>		
63050 SIT	0	3/30
<u>Fire Prevention and Procedures</u>		
64051B Procedures	100	
64053B Fire Loop Installation	95	3/15

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

Updated As Of: February 7, 1995

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
I	TMI	390	II.F.1.2d	Accident Monitoring Instrumentation - Containment Pressure	1	H	4-26-94H		84-13 84-59 85-36 85-48 91-04	Marini	
I	TMI	390	II.F.1.2e	Accident Monitoring Instrumentation - Containment Water Level	1	H	5-11-94H		84-13 84-37 85-36 91-04	Marini	
I	TMI	390	II.F.1.2f	Accident Monitoring Instrumentation - Containment Hydrogen	1				84-13 84-37 85-36 91-04		
I	TMI	390	II.F.2	Inadequate Core Cooling Instrumentation .2 Subcooling Meter (SIMS) .4 Install Additional Instr (SIMS)	1		12-20-93H	Open H	85-59 91-04 94-13	Marini	
MI	BU	390/391	79-02	Pipe Supports - Concrete Anchors	1	1	1-31-94H 9-20-94	CAP	93-45	Marini	Close w/HAAHP CAP
MI	BU	390/391	79-14	Seismic Analysis - As Buill. Piping	1	1	9-20-94	CAP	93-45	Marini	Close w/HAAHP CAP
EN	BU	390	79-21	Level Measurement	1	1	7-31-94	Open	94-61	Compton	Pending NRR Review Reopened in April
EI	BU	390	79-27	Loss Of I&C Power Bus	1						Reopened in April
EN	BU	390/391	80-11	Masonry Wall Design	1		7/91R		93-01	Compton	RTL- 1/94
CI	CDR	390	82-80	Shielded Cable Deficiency	1			CAP	91-26		*** Cable Issues CAP
EQ	CDR	390 391	84-29 84-26	Increased Temperature in Main Steam Valve Rooms	1		9-24-93H 5-25-94H	Open H	93-72	Marini	
FP	CDR	390 391	85-19 85-18	Fire-Rated Penetration Assemblies Deficiency	1				91-26		
CI	CDR	390	85-31	Incorrect Cable Terms in Harsh Environments	1			CAP	91-26		Cable Issues CAP
IL	CDR	390	85-35	Unqualified Instrument Lines	1	H	4-25-94H	CAP	91-26	Marini	Instrument Line CAP

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
CI	CDR	390	85-36	Support of Cables in Vertical Conduits	1	H	12-27-93H	CAP		Lara	Cable Issues CAP *** CTH- 1/94
EI	CDR	390	85-39	Cable Separation	1			CAP	91-14		Electrical Issues CAP
II.	CDR	390 391	85-43 85-42	Compression Fittings on Instrument Tubing	1			CAP	87-13 93-48	Marini	Instrument Line CAP
IL	CDR	390	85-50	Instrument Line Slope	1			CAP	91-26	Marini	Instrument Line CAP
ESQ	CDR	390	85-52	Solenoid Valve Installation	1			CAP	93-79	Moore	ESQ CAP
CI	CDR	390 391	85-53 85-50	Cable Terminations	1			CAP	91-26		Cable Issues CAP
EQ	CDR	390	85-59	Flooding in Category I Structures Outside Containment	1				91-26		
ESQ	CDR	390	85-61	Instrument Bolting Requirements	1			CAP	93-79	Moore	Close with ESQ CAP
MI	CDR	390	86-02	Pipe Support Design	1			CAP	93-45	Marini	Close with HAAUP CAP
ESQ	VIO	390	86-02-01	Failure to Follow Procedures	1				93-79	Moore	ESQ CAP
EQ	CDR	390 391	86-10 86-09	Incorrect Accident Doses on Design Drawings	1			CAP	93-51	Marini	Close with EQ CAP
*	VIO	390	86-12-08	Failure to Follow Procedures	1	1	7-22-94	Open	91-31 94-55	Contractor	
IL	CDR	390	86-13	Piping Thermal Qualification	1			CAP	91-31	Marini	Instrument Line CAP
MI	CDR	390	86-14	Conduit Supports	1			CAP	93-91	Glasman	*** Conduit Support CAP
EN	VIO	391	86-14-03	Inadequate Design Output	1		9-02-94		91-15		Taken back 11/2/94
EN	CDR	390	86-17	Electrical Calculations	1			CAP	91-31		*** DBVP CAP
ESQ	VIO	390	86-18-01	Translate Design Requirements	1		8-30-94	CAP	93-79	Moore	Close with ESQ CAP See CDR 86-59
ESQ	VIO	390	86-21-02	Design Control	1			CAP	93-79	Moore	Close with ESQ CAP
MTL	URI	391	86-21-04	Replacement Parts	1			CAP	91-26		RIP CAP
MI	CDR	390	86-25	Cable Calculations	1			CAP	91-31		Conduit/Cable Tray Support CAPs ***

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
IL	VIO	390	86-25-01	Failure to Follow Procedure (CAP Basis)	1	H	3-16-94H	CAP	91-31	Marini	Instrument Line CAP
EI	CDR	390	86-27	Flexible Conduit	1			CAP	93-63	Lara	Electrical Issues CAP ***
IL	CDR	390	86-28	Tubing Attached to Containment	1			CAP	91-31	Marini	Instrument Line CAP
IL	CDR	390	86-29	Adequacy of Instrument Support Hangers	1			CAP	87-13 93-86	Marini	Instrument Line CAP
MI	CDR	390	86-33	Tubing Spans	1			CAP	93-45	Marini	Close with HAAUP CAP
EN	CDR	390	86-39 86-37	Embedded Plate Design	1				91-31		
MI	CDR	390	86-41	Piping Analysis	1			CAP	93-45	Marini	Close with HAAUP CAP
EI	CDR	390 391	86-44 86-42	Control Circuits on Valves	1			CAP	91-15		Electrical Issues CAP Work with IFI 90-27- 20
CI	CDR	390	86-46	Circuits Inside EPAs	1			CAP	91-31		*** Cable Issues CAP
RAD	CDR	390	86-49	Radiation Monitors	1				91-31		
MI	CDR	390	86-54	HVAC Duct Seismic Design Criteria	1			CAP	94-08	Marini	HVAC CAP
ESQ	CDR	390	86-56	Instrument Bolting	1			CAP	93-79	Moore	Close with ESQ CAP
ESQ	CDR	390	86-59	ASCO Solenoid Valves	1			CAP	93-79	Moore	Close with ESQ CAP
CI	CDR	390 391	86-61 87-12	Cable Configuration Control	1			CAP	93-74	Lara	*** Cable Issues CAP
ESQ	CDR	390/391	87-02	A/C Valve Qualification	1				93-79		
EN	CDR	390	87-04	Loss of ECCS Inventory	1						
EN	VIO	390	87-05-01	Hydrogen Analyzer Design	1			CAP	91-03 94-69		DBVP CAP
*	CDR	390	87-07	Coating on RCP Motors	1		7-31-94H 8-07-94R	Open H	94-54 84-59	Brady	CIS- 8/94, RTL- 9/94

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
MI	VIO	390	87-07-01	CAQ Program	1			CAP	94-08	Marini	HVAC/Conduit Support CAPs
EQ	CDR	390	87-10	Cat. C / Cat. A Devices	1	1	12-30-93H 8-30-94	Closed 1	94-88 91-31 94-61	Contractor	Closed in January 95
EI	URI	390	87-10-02	Stick-On Wiring Fasteners	1			CAP	93-01 94-45	Lara	Electrical Issues CAP
ESQ	CDR	390/391	87-11	Solenoid Valve Replacement	1		8-30-94	CAP	91-26 94-66		Vendor Info/ESQ CAPs
CI	VIO	390	87-11-02	Lifted Cables & Wires	1				91-14 94-66		***
EN	CDR	390	87-13	Sleeve Sealing Program	1				91-31		
ESQ	CDR	390 391	87-14 87-15	Containment Bellows	1			CAP	91-31		See Miller and Merriweather at closure.
V	CDR	390	87-18	Limitorque Parts	1						See IFI 93 90 02
EN	CDR	390	87-20	Platform Design	1	H	2-08-94H	CAP	91-31		DBVP CAP
MI	VIO	390	88-01-02	Cable Tray Installation	1			CAP	91-26	Marini	***Cable Tray Support CAP
W	URI	390	88-05-02	ASME Weld Accountability	1	1		Closed 1	94-89 91-15 94-79	Crowley	Welding CAP Closed in Jan 95
CI	CDR	390	89-02	Cable Support in Conduit	1			CAP	91-26		*** Cable Issues CAP
V	CDR	390	89-04	Improper Limit Switches	1				91-31		
MI	CDR	390	89-06	Cable Supports & Fittings	1			CAP	91-26	Marini	Cable Tray Support CAP
EI	URI	390	89-07-03	Cable Separation	1			CAP	81-26		Electrical Issues CAP
CI	URI	390	89-08-02	Cable Damage	1			CAP	83-35	Lara	*** Cable Issues CAP
V	CDR	390	89-09	Limitorque Failures	1		3-23-92R			Compton	RTL- 3/94 Close with CDR 87-18

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
CI	CDR	390	89-10	Damaged Cable In Conduit	1			CAP	91-31 94-32	Lara	*** Cable Issues CAP
MI	CDR	390 391	89-11 89-09	Damaged, Loose, & Missing Hardware	1				93-74	Marini	
EQ	CDR	390	89-12	Unqualified 50.49 Cables	1				91-31		
V	P21	390/391	89-12	Limitorque	1						
CI	OI	390	89200-07	Inadequate EPA Raychem (IFI)	1				91-15		
RAD	CDR	390/391	90-01	Control Room Habitability	1		8-27-94		91-15		
CI	CDR	390	90-03	Cables Near Hot Pipes	1			CAP	91-26 94-35	Lara	Close w/Cable Issues CAP
CI	CDR	390	90-04	Cable Damage at Splices	1			CAP	93-10	Lara	*** Cable Issues CAP
CA	URI	390	90-06-02*	Inappropriate Closure of CAQRs	1		9-07-94		93-65 92-29 92-46	Ivey	***
EN	CDR	390/391	90-07	ABGTS Design Deficiency	1				91-18		
CI	CDR	390	90-09	Cable Damage	1			CAP	91-31		*** Cable Issues CAP
FP	CDR	390/391	90-10	Unqualified Fire Seals	1				91-31 94-62		
MI	VIO	390	90-15-03	Corrosion in System 31 Piping	1				92-26		
EI	URI	390	90-22-01	Electrical Separation	1			CAP	93-74 94-11 94-18	Lara	Electrical Issues CAP
FP	IFI	390	90-22-04	Fire Door Identification	1				94-62		
EN	IFI	390	90-27-09	Sample Connection Support	1		1-03-94H	Open H	93-45	Marini	CTH- 1/94
EI	IFI	390	90-27-22	Control Power Annunciation	1						
EN	IFI	390	90-27-24	AFW Setpoint Calculations	1						
EQ	URI	390	90-30-05	Junction Boxes	1				91-31	Marini	
CA	OI	390/391	90-31-01*	CAQ Program (IFI)	1		1-31-94				***

\* - Not Assigned To BINS

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
EN	CDR	390/391	91-04	Control Circuit Design	1		10-08-93H	Open H plus	93-72	Myers	
MI	IFI	390	91-04-02	Containment Upper/Lower Seal Liner	1				91-08		
MI	CDR	390/391	91-08	IPS & DG HVAC	1			CAP	91-26	Marini	HVAC CAP
V	CDR	390	91-09	Limitorque	1		11-01-93H	Open H	93-87	Marini	
MI	CDR	390	91-22	HVAC Duct Supports	1			CAP	93-78	Marini	HVAC CAP
V	CDR	390	91-29	Valve Thermal Binding	1		7-92H				
EN	CDR	390/391	91-32	Control Room Ventilation	1		2-13-94H	Open H	94-35	Marini	
MTL	CDR	390/391	91-34	Material Storage	1	1	2-3-95	CAP		Marini	RIP CAP
EN	CDR	390/391	91-39	HELB Analysis	1				91-31		
CI	VIO	390	92-01-03	Design Control - Cables	1	1	6-21-94	CAP			Cable Issues CAP ***
CI	IFI	390	92-01-06	Cable Ampacity	1						*** Cable Issues CAP
JL	IFI	390	92-01-07	Vertical Cable Support	1						*** Cable Issues CAP
CI	IFI	390	92-01-08	Cable Bend Radius	1			CAP	93-91	Lara	Cable Issues CAP
MI	URI	390 391	92-05-05 92-05-04	Cable Tray Walkdowns	1				93-22	Marini	
EN	IFI	390	92-06-01	Instrument Sense Line Unverified Assumption	1						
CI	IFI	390	92-08-01	Cable Damage Trend Analysis	1	H	2-15-94H	CAP			Cable Issues CAP ***
CI	IFI	390/391	92-09-02	Debris in Conduits	1	H	1-31-94H	Open H	94-61	Compton	Pending TVA Inspections
CA	CDR	390/391	92-12	Installed Temperature Switch without Class 1E Qualifications	1		1-03-94H 9-20-94	Open H plus	94-13	Good	
F	URI	390/391	92-22-01	Falsification of Records	1		7-19-93		94-55	Marini	RII to Close *** Taken back 11/2/94
F	IFI	390	92-35-01*	Falsification Of Records	1	1	2-22-93		94-55	Marini	RII to Close

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
F	URI	390	92-40-02	Falsification Of Records	1	1	6-30-93 12-94		93-58	Marini Fredrickson	RII to Close
FP	IFI	390/391	92-45-03	Thermolag	1				93-29		
MI	VIO	390	92201-07	U-Bolts	1				94-22	Marini	
EI	CDR	390/391	93-02	Loose Fittings	1			CAP			RTL- 8/94 Electrical Issues CAP
CA	URI	390	93-24-02	Evaluate Nonconformance in PreOp Testing	1		6-27-94		93-58 93-75	Compton	Taken Back 10/94
VI	VIO	390	93-27-01	Technical Bulletin 92 09	1		8-10-94	CAP		Ivey	Vendor Information CAP
VI	IFI	390	93-27-02	RPS, Relays, & IDR	1	1	12-07-94	CAP		Van Dyne	Recvd in December 94
VI	IFI	390	93-27-04	Field Verification Walkdowns	1	1	6-27-94 1-09-95	CAP		Van Dyne	Recvd in January 95
VI	IFI	390	93-27-05	Conditional Use Manual Program	1	1	1-10-95	CAP		Van Dyne	Vendor Information CAP Recvd in Jan 95
QA	IFI	390	93-35-03	QA Records Issues	1				94-46	Bearden	***
MI	VIO	390	93-45-01	HAAIP - Field Walkdowns	1		7-25-94	CAP		Marini	Inspect During HAAIP CAP 100% Team Inspection
MI	URI	390/391	93-45-02	Improperly Staked Nuts	1		1-31-94H	CAP Open II	94-22	Marini	HAAIP CAP
EC	IFI	390/391	93-58-04	Follow Up Items from VSR	1					Myers	
*	VIO	390/391	93-59-02*	Inadeq. Implementation of Vendor Bulletin	1		6-16-94			Gibbs	
MI	IFI	390/391	93-59-07	RCP #4 Support	1		1-29-94R	CAP	94-40		QA Records, RTL- 8/94
MI	VIO	390	93-70-02	Undercut Anchors	1	1	7-28-94				
ESQ	VIO	390	93-78-01	Inadequate Design Control	1			CAP		Moore	ESQ CAP
ESQ	VIO	390	93-78-02	Failure to Follow Procedure TI-2005	1	1		Closed 1	94-88	Moore	Closed in January 95
IL	CDR	390/391	94-04	Freezing of Sense Lines	1						

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
U2	VIO	391	94-04-01*	FTF Procedures for U2 IIs	1		7-20-94			Myers	AFI. Taken Back.
CI	CDR	390/391	94-05	Rad Monitor Cable Crimps	1						
EN	CDR	390	94-06	Charging Pump 1A-A Problems	1						
MI	CDR	390	94-07	LCC Fan Problems	1	1	1-17-95			Walton	
MI	CDR	390	94-08	RHR Pump 1B-B Failures	1						
EI	CDR	390/391	94-10	GE Magne-Blast Circuit Breakers	1						
	CDR	390	94-11	RHR Miniflow Check Valves	1						
MI	VIO	390/391	94-11-01	FTF Procedures/DLMH & Procedure References	1	1		Closed 1	94-82	Van Dyne	See 94-18 package also.
	CDR	390	94-12	Deficiencies in Rigid Conduit Attachment	1						
	CDR	390	94-13	Inadequate Vertical Cable Supports	1						
	CDR	390,391	94-14		1						
	CDR	390	94-15		1						
CA	VIO	390	94-13-01	Failure to Follow Procedures (4 examples)	1					Marini	
CA	VIO	390/391	94-13-02	Inadequate Corrective Action (3 examples)	1					Compton	
EI	VIO	390	94-18-03	Raceway Separation	1				94-55	Lara	
MI	IFI	390	94-19-01	NUREG-0612 Heavy Loads	1					Girard	
CA	VIO	390/391	94-22-01*	Inadequate Corrective Action	1		9-07-94			Compton	
IL	VIO	390	94-24-01	Inadeq Corrective Actions - Instr. Lines	1			CAP		Glasman	Instrument Line CAP
IL	VIO	390	94-24-02	Design Control- Instrument Lines	1			CAP	94-66 94-75	Glasman	Instrument Line CAP
IL	VIO	390	94-24-03	FTF Procedures- Instrument Lines	1			CAP	94-75	Glasman	Instrument Line CAP
IL	IFI	390	94-24-04	Vulnerability of Sys 43/90 Instrument Lines	1			CAP		Glasman	Instrument Line CAP
MI	DEV	390	94-30-01	ERCH Pipe Test	1	1	1-17-95 9-13-94		94-66	Compton	

\* - Not Assigned To BINs

**CONSTRUCTION BRANCH  
OPEN ITEMS LIST**

BIN	ITEM TYPE	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	OPEN/ CLOSED	RPT NO	INSPECTOR	COMMENTS
CI	VIO	390	94-35-01	FTF Procedures for Electrical Terminations	1					Lara	
CA	VIO	390	94-37-01	CAQ Program Deficiencies	1					Walton	
CA	VIO	390	94-37-02	Drawing Deviation Concern	1					Girard	
EN	VIO	390	94-47-02	Failure to Implement Design Controls	1					Walton	
EQ	VIO	390/391	94-51-02	Transmitter EQ Identification Problem	1						
CI	VIO	390	94-53-01	Failure to Implement DCN Requirements	1			CAP		Lara	Cable Issues CAP
CI	VIO	390	94-53-02	Design Control Deficiencies: Cable Routing	1			CAP		Lara	Cable Issues CAP
CI	URI	390	94-53-03	Condulets & Cable Trays at the Top of Vertical Conduit Runs	1			CAP	94-66	Lara	Cable Issues CAP
MI	VIO	390	94-55-02	Damaged Pressure Transmitter	1		9-28-94		94-72	Glasman	Taken back 11/1/94
CA	VIO	390	94-59-01	Inadequate Corrective Action - RCP Coatings	1					Brady	
MI	VIO	390	94-61-01	FTF Procedures: Housekeeping/Scaffolding	1					Glasman	
CA	VIO	390	94-61-02	Inadeq Corr. Actions: Kapton Splice Damage and ERW Bearing Cooling Line Slope	1				94-66 94-75 94-82	Compton Good	
	VIO	390	94-64-01	Fail to Fol Cnduit/Cabl Tray Walkdn Proced	1						
	DEV	390	94-66-01	VSR DR-89	1						
	URI	390	94-66-02	Penetration Class 1E Cable	1						
	VIO	390	94-69-01	Pressure of Component Cooling Tank	1						
	IFI	390	94-69-02	Incomplete Resolution of Commitments	1						
	IFI	390	94-69-03	Maximum Shell Side Flow Limit	1						
	VIO	390	94-72-01	Inadequate Corrective Action	1				94-75		
	VIO	390	94-72-02	Failure to Follow Procedures	1						
	VIO	390	94-75-01	Safety Injection Pump RMs 1A-A and 1B-B	1						
	VIO		94-76-01	Fail to Verify Qualifica of Test Engineers	1						

\* - Not Assigned To BINs



CONSTRUCTION BRANCH  
OPEN ITEMS LIST

STATUS AS OF: (1995)	1/10	1/24	2/7
TOTAL OPEN ITEMS	= 173	172	172
TOTAL PKGS WITH NRC	= 11	13	14

\* - Not Assigned To BINs

**STARTUP/OPERATIONS BRANCH  
OPEN ITEM LIST**

Updated As Of: February 7, 1995

ITM TYP	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	INSPECTOR	OPEN/ CLOSED	RPT NO	COMMENTS
TMI	390	I.A.1.1	Shift Technical Advisor .1 SIA On Duty (SIMS) .3 STA Training	1	1	6-28-93	OPS	HOLD	84-09 84-35 91-04	IFI 91-04-04
TMI	390	I.A.1.2	Shift Supervisor (SOS) Responsibilities	1	1	6-28-93	OPS	HOLD	83-15 91-04	IFI 91-04-04
TMI	390	I.A.1.3	Shift Manning .1 Limit Overtime .2 Impl Min Shift Crew	1	1	6-28-93	OPS	HOLD	84-20 84-35 91-04	IFI 91-04-04
TMI	390	I.B.1.2	Independent Safety Review Group (ISEG)	1	1	9-26-94	OPS	HOLD	83-15 85-40 86-05 91-04	IFI 86-05-02
TMI	390	I.C.1	Short Term Accident and Procedure Review (SIMS) .1 SB LOCA .2 A ICC/Reanalyze Guide .2 B ICC/Revise Proc .3 A Trans/Accdts/Guide .3 B Trans/Accdts/Proc	1	1	1-29-94	EOP Reviewers		85-08 91-04	
TMI	390	I.C.2	Shift & Relief Turnover Procedures	1	1	6-28-93	OPS	HOLD	83-27 84-35 91-04	IFI 91-04-04
TMI	390	I.C.3	Define SOS Responsibility	1	1	6-28-93	OPS	HOLD	84-35 91-04	IFI 91-04-04
TMI	390	I.C.4	Establish Control Room Access Controls	1	1	6-28-93	OPS	HOLD	83-27 91-04	IFI 91-04-04
TMI	390	I.C.6	Verify Correct Performance of Operating Activities (SIMS)	1	1	6-15-93	OPS	HOLD	85-59 91-04	

**STARTUP/OPERATIONS BRANCH  
OPEN ITEM LIST**

ITM TYP	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	INSPECTOR	OPEN/ CLOSED	RPT NO	COMMENTS
TMI	390	I.D.1	Control Room Design Reviews (CRDR)	1			NRR			Transferred from CONSTR
TMI	390	I.D.2	SPDS .2 Installed .3 Fully Implemented	1			NRR/OPS		91-04	
TMI	390	II.B.1	RCS Vents .3 Procedures (SIMS)	1	H	1-31-94H 7-18-94H	SUT/OPS	HOLD	83-27 85-08 91-04	Installation Completed
TMI	390	II.B.2	Design of Plant Shielding .3 Modifications	1	1	6-13-94	Kuzo		84-13 93-81	IFI 93-81-03
TMI	390	II.B.3	Post Accident Sampling System (PASS) .1 Interim System (SIMS) .4 Plant Mods (SIMS)	1	H	2-28-94H	Kuzo		84-13 85-20 91-04	
TMI	390	II.D.1	Relief & Safety Valve Test Requirements	1			NRR		85-08	Reopened by NRR
TMI	390	II.E.1.1	AFW Evaluation (Testing) .2 Short Term Mod (SIMS) .3 Long Term Mods (SIMS)	1		1-31-94H	SUT/OPS	Open H	83-56 91-04 94-42	
TMI	390	II.F.1.1	Accident Monitoring Instr - Procedures	1			OPS		84-13 85-36 91-04	
TMI	390	II.F.1.2a	Accident Monitoring - Noble Gas	1			Kuzo		84-13 85-36 91-04	
TMI	390	II.F.1.2b	Accident Monitoring -Iodine & Particulate	1	H	3-18-94H	Kuzo		84-13 85-36 91-04	

**STARTUP/OPERATIONS BRANCH  
OPEN ITEM LIST**

ITM TYP	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	INSPECTOR	OPEN/ CLOSED	RPT NO	COMMENTS
TMI	390	II.F.1.2c	Accident Monitoring - HI Rad In Containment	1			Kuzo		84-13 85-36 91-04	
TMI	390	III.D.1.1	Primary Coolant Outside Containment .1 Leak Reduction (SHE)	1			OPS		85-08 85-60 91-04	
TMI	390	III.D.3.4	Control Room Habitability .4 Implement Mods (SIMS)	1	H	6-27-94H	Kuzo	Open	84-37 93-81	IFI 93-81-05
BU	390/391	88-09	Thimble Tube Thinning	1						AFL Transfer from CONSTR
IFI	390/391	90-24-03	Adequacy of Labeling	1	1	9-28-94 11-16-94		Closed 1	95-05 93-01	Closed Feb 95
VIO	390/391	92-23-01	Primary Drawing Update	1			C. Smith	Open	93-73	
IFI	390	93-18-02	Review procedure changes involving verification of operation of relay target.	1	1	9-13-94	Norm M.			In package w/ IFI 93-76-01
IFI	390	93-28-02	PTI-0301.01	1	1	8-20-94	SUT			
IFI	390	93-28-04	Auxiliary Building Gas Treatment System	1			SUT			
IFI	390	93-39-01	PTI 63-05	1	1	9-13-93	C. Smith	Closed 1	94-84	Closed Jan.
IFI	390/391	93-41-02	Area & Personnel Monitors	1			Kuzo	Open	93-81	
IFI	390/391	93-41-03	ALARA Program	1			Kuzo	Open	93-81	
VIO	390/391	93-43-02	RG-1.68.3 Positions	1			Agles			
DEV	390/391	93-43-03	Control Air System	1			Agles			
IFI	390	93-43-04	Instrument Air	1			Agles			

**STARTUP/OPERATIONS BRANCH  
OPEN ITEM LIST**

ITM TYP	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	INSPECTOR	OPEN/ CLOSED	RPT NO	COMMENTS
VIO	390	93-53-02	PTIs -02.02, -27.01, -70.01, -74.01, & -261.02	1		10-03-94	Gilbert			Taken Back 11/5/94
IFI	390/391	93-55-02	Review Meteorological Monitoring Program	1			Kuzo			
IFI	390/391	93-60-01	TSC Vent System/ERFDs	1			Sartor	Open	94-26 94-57	
VIO	390	93-61-01	PTI-63.02, PTI-63.03	1	1	2-03-95	Gilbert			Recvd Feb.
URI	390	93-61-02	TSDs, RG 1.79, and FSAR Issues	1	1	2-06-95	Gilbert			Recvd Feb.
VIO	390	93-73-01	Drawing Deviations	1	1	1-03-94	C. Smith			
URI	390/391	93-74-05	AFW Miniflow Sizing	1			Van Doorn	Open	93-85 94-10 94-11 94-58	
IFI	390	93-88-01	PTIs 211.01 and 200.01	1	1	8-22-94	SUT			
IFI	390	93-88-02	Ensure PTI for ESF Verifies Correct Settings	1			SUT			
IFI	390	94-07-01	Evaluate CCW and SI Pump Injection Resistances	1			SUT			
IFI	390	94-15-01	Truck Bay Spill Controls	1			Kuzo			
IFI	390	94-19-02	Fuel Transfer Hoist PTI	1			Girard			
IFI	390	94-25-01	Pump Component Tests	1	1	9-20-94	Moore			
IFI	390	94-26-02	Changes to EALs/EPIP-01	1			Sartor	Open	94-57	
IFI	390	94-26-03	Assembly & Accountability	1			Sartor	Open	94-57	
VIO	390	94-36-01	MOVATS Torque Values	1			Hunt			

**STARTUP/OPERATIONS BRANCH  
OPEN ITEM LIST**

ITM TYP	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	INSPECTOR	OPEN/ CLOSED	RPT NO	COMMENTS
VIO	390	94-38-02	Insufficient Component Testing for RCS RTDs	1			Van Doorn			
IFI	390	94-42-01	Eval AFW Control Problems	1			SUT			
VIO	390	94-42-03	FTFP: Valve Leak Testing	1			B. Smith			
VIO	390/391	94-43-01	Concerns with PTI-43.01	1		8-31-94	Kuzo			Taken back 11/5/94
VIO	390	94-48-01	Inadequate Corrective Action - M&TE	1	1	None	OPS	Closed 1	94-84	Closed Jan.
VIO	390	94-56-01	Improper Installation of Radiation Monitors	1			Kuzo			
DEV	390	94-58-02	PTI-99.03 Performance Prior to NRC Review	1			SUT			
VIO	390	94-58-03	FTF Proc. - Night Orders	1			OPS			
URI	390	94-62-02	Fire Detect Installation	1			Miller			
VIO	390	94-73-01	Inadequate PTIs	1			SUT			
VIO	390	94-73-02	FTF Clearance Program	1			OPS			
DEV	390	94-73-03	Deviation From Commitment for Boron Dilution Events	1			OPS			
DEV	390	94-78-01	Inadequate Transfer of Material	1			Miller			
URI	390	94-80-01	Missing Fuses During ITS	1			Van Doorn		94-84	
URI	390	94-80-02	Oversight of Contractor Work	1			OPS			
URI	390	94-84-01	Non-intent change to PTI 83-01	1	1	None	SUT	Closed 1	95-05	Opened Jan. Closed Feb.

**STARTUP/OPERATIONS BRANCH  
OPEN ITEM LIST**

ITM TYP	UNITS 1 / 2	ITEM NUMBER	DESCRIPTION	TOT PKG	PKG IN	DATE REC'D	INSPECTOR	OPEN/ CLOSED	RPT NO	COMMENTS
IFI	390	94-86-01	EOP Open Issues	1			Mellen			
IFI	390	94-202-01	Config Control Documents	1			Narbut			Opened Jan.
VIO	390	94-202-02	Off-Normal Log	1			Narbut			Opened Jan.
IFI	390	94-202-03	Acceptance Criteria for Operator Rounds	1			Narbut			Opened Jan.
VIO	390	95-01-xx	QA Review Training	1						Opened Jan.
IFI	390	95-01-xx	Training Plnt Personnel	1						Opened Jan.
VIO	390	95-05-xx	FTEP:Corrective Actions	1			Ivey			Opened Feb.
VIO	390	95-05-xx	ASME Sect XI Issues	1			OPS			Opened Feb.
				TOT	IN	NOT IN	OPEN	CLOSED		
				74	21	53	70	4		

SNM 94-01-01 Inadequate Fire Pump Tests

STATUS AS OF: (1995) 2/7

TOTAL OPEN ITEMS 74

TOTAL PKGS W/NRC 17

WATTS BAR UNIT-1  
MC2513  
INSPECTION PROCEDURE COMPLETION STATUS

**APPENDIX - A**

THIS APPENDIX DESCRIBES THE INSPECTION PROGRAM TO VERIFY SYSTEMS AND COMPONENT IMPORTANT TO SAFETY OF THE PLANT ARE FULLY TESTED TO DEMONSTRATE THAT THEY SATISFY THEIR DESIGN REQUIREMENTS.

GENERAL: INSPECTION PROCEDURES					
IP.NO	IP.TITLE	INSPECTOR	RPT.NO.	COMP	REMARKS
35301	QA FOR PREOP TESTING	TAYLOR			INPROGRESS
37301	COMPARE AS-BUILT/FSAR	VAN DOORN			INPROGRESS
<del>70301</del>	<del>OVERALL PREOP PROGRAM REVIEW</del>	TAYLOR	<del>92-16,25,93-03,33</del> 94-07,58	CLOSED	
70302	PREOP PROG.IMPLEMENT	VAN DOORN			INPROGRESS
70311	PREOP TEST PROCEDURE VERIFICATION	TAYLOR	94-43,58	PARTIAL	
70329	PREOP TEST RESULT EVAL. VERIFICATION	TAYLOR			INPROGRESS
70370	TEST PIPE SUPPORTS & RESTRAINT SYS.	LENAHAN			

<b>MANDATORY TEST PROCEDURE REVIEW</b>					
<b>IP.NO</b>	<b>IP.TITLE</b>	<b>INSPECTOR</b>	<b>RPT.NO.</b>	<b>COMP</b>	<b>REMARKS</b>
70304	ENGR.SAFETY FEATURES	AGLES/TAYLOR	94-73	CLOSED	
70305	RPS SYIS TESTS	MACDONALD GILBERT	94-48,58,65	PARTIAL	
70306	LOSS OFFSITE POWER	AGLES/TAYLOR	94-73	CLOSED	
70307	CILRT	MILLER	94-48	CLOSED	
70308	INTERG.HOT FUNCTIONAL	AGLES	94-12	CLOSED	
70362	RCS HYDROSTATIC TEST <sup>1</sup>	NA	NA	NA	NA

<sup>1</sup> The hydrostatic test was not repeated; staff acceptance of this is documented in Supplement 14 to the SER

**PRIMAL TEST PROCEDURE REVIEW (SELECT 5)**

IP.NO	IP.TITLE	INSPECTOR	RPT.NO.	COMP	REMARKS
70331	VIBRATION TEST	LENAHAN	94-29	CLOSED	
70332	ROD CONTROL SYS TEST	SMITH	95-38,80	CLOSED	
70333	CVCS SYS TEST	SMITH/AGLES	93-57;94-23	CLOSED	
70334	ESF ACTUATION TEST	AGLES/TAYLOR	94-65;73,80	CLOSED	
70335	SAFETY/RELIEF VLV TEST	AGLES	94-38	PARTIAL	
70336	RHR SYS TEST	GILBERT/NORM	93-52;94-23	CLOSED	
70337	MSIV TEST	AGLES	94-38	CLOSED	
70338	AFW SYS TEST	SMITH GILBERT	94-23,38,80	PARTIAL	HFT 2
70339	CCW SYS TEST	SMITH GILBERT	93-49,73	CLOSED	
70340	DC PWR SYS TEST	SMITH	93-17	CLOSED	
70341	EMERG STBY PWR SUPPLY SYS TEST	SMITH/GREENE	94-42,52,58	CLOSED	
70342	CONTMNT COMBUST GAS CONTROL SYS TEST	K.MILLER	94-58	CLOSED	
70343	CONTMNT SPRAY SYS TEST	GREENE	94-73,80	CLOSED	
70344	CONTMNT ISOL VLV TEST	K.MILLER	94-07	CLOSED	
70345	CONTMNT HVAC	MILLER/SMITH AGLES/NORM	94-12,28,38; 94-52,58	CLOSED	
70346	AUX BLDG HVAC	MACDONALD GILBERT	94-28,58,65	CLOSED	
70347	PZR LEVEL CONT SYS TEST	K.MILLER	94-23	CLOSED	
70348	MN FD CONT SYS TEST	GILBERT K.MILLER	94-38,42,58	CLOSED	
70349	RX COOLANT LEAK DETECTION SYS TEST	K.MILLER	94-58	CLOSED	
70350	INTERO RX CONTROL SYS	SMITH	94-38	CLOSED	

**PRIMAL TEST PROCEDURE REVIEW (SELECT 5)**

IP.NO	IP.TITLE	INSPECTOR	RPT.NO.	COMP	REMARKS
70351	INTERG RX CONT SYS	SMITH	94-38,80	CLOSED	
70352	REMOTE RX SHDN TEST	AGLES	94-38	CLOSED	
70353	CRANES/HOIST/LIFT EQUIPMENT TEST	K.MILLER	94-73,80	CLOSED	
70354	NI SYS TEST	MERRIWEATHER	94-80	CLOSED	
70355	COMPRESS GAS SYS TEST	AGLES	93-43;94-73	CLOSED	

**MANDATORY TEST WITNESSING**

IP NO	IP TITLE	INSPECTOR	RPT. NO.	COMP	REMARKS
70313	CILRT	K MILLER	94-48	CLOSED	
70314	INTERG HOT FUNCTIONAL	AGLES	94-38	CLOSED	
70315	ESP SYS TEST	TAYLOR/AGLES	94-80	CLOSED	
70316	LOSS OFFSITE POWER	TAYLOR/AGLES	94-80	CLOSED	
70317	RPS TEST	MACDONALD GILBERT	94-58,65	PARTIAL	

PRIMAL TEST WITNESSING (SELECT 5)					
IP.NO	IP.TITLE	INSPECTOR	RPT.NO.	COMP	REMARKS
70431	VIBRATION TEST	K.MILLER	94-38	CLOSED	
70432	ROD CONTROL SYS TEST	SMITH			
70433	CVCS SYS TEST	AGLES	93-37,94-38,42	CLOSED	
70434	BSF ACTUATION TEST	TAYLOR	94-80	CLOSED	
70435	SAFETY/RELIEF VLV TEST	AGLES	94-38	CLOSED	
70436	RHR SYS TEST	GILBERT	94-38	CLOSED	
70437	MSIV TEST	AGLES	94-42	CLOSED	
70438	APW SYS TEST	GILBERT	94-38	CLOSED	
70439	CCW SYS TEST	GILBERT			
70440	DC PWR SYS TEST	SMITH	93-44	CLOSED	
70441	EMERG STBY PWR SUPPLY SYS TEST	SMITH/GREENE	94-52,58,65	CLOSED	
70442	CONTMNT:COMBUST.GAS CONTROL SYS TEST	K.MILLER			
70443	CONTMNT SPRAY SYS TEST	GREENE	94-84	CLOSED	
70444	CONTMNT ISOL VLV TEST	K.MILLER	94-48	CLOSED	
70445	CONTMNT HVAC	AGLES	94-42,52,65	CLOSED	
70446	AUX BLDG HVAC	GILBERT			
70447	PZR&LEVEL CONT SYS TEST	GILBERT K.MILLER	94-38,42,48	CLOSED	
70448	MN FD CONT SYS TEST	GILBERT			
70449	RX COOLANT LEAK DETECTION SYS TEST	K.MILLER			

**PRIMAL TEST WITNESSING (SELECT 5)**

IP.NO	IP.TITLE	INSPECTOR	RPT.NO.	COMP	REMARKS
70350	LOOSE PARTS MONIT SYS	GILBERT			
70351	INTERG ROD CONTROL	SMITH			
70452	REMOTE RX SHDN TEST	AGLES	94-42	CLOSED	
70453	CRANES/HOIST/LIFT EQUIPMENT TEST	K.MILLER			
70454	NI SYS TEST	MERRIWEATHER			
70455	COMPRESS GAS SYS TEST	AGLES	94-53	PARTIAL	

<b>MANDATORY TEST RESULT EVALUATION</b>					
<b>IP.NO</b>	<b>IP.TITLE</b>	<b>INSPECTOR</b>	<b>RPT.NO.</b>	<b>COMP</b>	<b>REMARKS</b>
70322	ESF SYS TEST	TAYLOR			
70323	CILRT	K.MILLER			INPROGRESS
70324	INTERG HOT FUNCTIONAL	AGLES	95-05	CLOSED	
70325	RPS TEST	GILBERT			
70326	LOSS OFFSITE POWER	TAYLOR			

**PRIMAL TEST RESULT EVALUATION (SELECT 5)**

IP NO	IP/PTI TITLE	INSPECTOR	RPT. NO.	COMP	REMARKS
70400 PTI	TEST RESULT EVAL 01.01 MSIV4	AGLES	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 01.03 MN STM SAFETIES	AGLES	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 03A-02 FD/SO LEVEL	GILBERT	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 30I-01 CONTM/CLR ELEC	MERRIWEATHER	94-73	CLOSED	
70400 PTI	TEST RESULT EVAL 30K-01 CRDM CLR	SMITH	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 52.01 LOOSE PARTS MON	GILBERT	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 62.01 CVCS LOGIC	SMITH	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 62.03 CHO/LDN	AGLES	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 63.05 SIP/VLV LOGIC	MERRIWEATHER	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 63.06 RI CK VLV	AGLES	94-58	CLOSED	
70400 PTI	TEST RESULT EVAL 68.02 RCS FLOW MEAS	GILBERT	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 68.03 PZR HTR/SPRAY	K.MILLER	94-73	CLOSED	
70400 PTI	TEST RESULT EVAL 68-04 PZR RELIEF TK	K.MILLER	95-05	CLOSED	
70400 PTI	TEST RESULT EVAL 64-05 ST HD LDRS	K.MILLER	94-73	CLOSED	

**PRIMAL TEST RESULT EVALUATION (SELECT 5)**

IP.NO	IP/PTI TITLE	INSPECTOR	RPT.NO.	COMP	REMARKS
70400 FTF	TEST RESULT EVAL 66-10 ICCM/RVLS	GILBERT	95-05	CLOSED	
70400 PTF	TEST RESULT EVAL 66-11 RTD X-CAL	GILBERT	95-05	CLOSED	
70400 PTF	TEST RESULT EVAL 66-13 SD/OUTSIDE/CONT	AGLES	95-05	CLOSED	
70400 FTF	TEST RESULT EVAL 74-01 RRR PWLY LOGIC	MERRIWEATHER	94-65	CLOSED	
70400 FTF	TEST RESULT EVAL 85-01 WOD CONTROL TEST	SMITH	94-73	CLOSED	
70400 PTF	TEST RESULT EVAL 90-09 RAD MONIT TEST	MERRIWEATHER	95-05	CLOSED	
70400 PTF	TEST RESULT EVAL 200-01 DEFIBR PWR	MERRIWEATHER	93-82,93-88	CLOSED	
70400 PTF	TEST RESULT EVAL 211-01 8.9KV 8DSD3	SMITH	93-82,93-88	CLOSED	
70400 FTF	TEST RESULT EVAL 212-01 480V/SDSD 1A	MERRIWEATHER	93-76	CLOSED	
70400 FTF	TEST RESULT EVAL 212-02 480V/SDSD 1B	MERRIWEATHER	93-76	CLOSED	
70400 FTF	TEST RESULT EVAL 212-03 480V/SDSD 2A	MERRIWEATHER	93-76	CLOSED	
70400 FTF	TEST RESULT EVAL 212-04 480V/SDSD 2B	MERRIWEATHER	93-76	CLOSED	
70400 PTF	TEST RESULT EVAL 213-01 480V BX/MOV BD	SMITH	93-76	CLOSED	
70400 FTF	TEST RESULT EVAL 214-01 SWR GEN/VRTD	SMITH	93-76	CLOSED	

PRIMAL TEST RESULT EVALUATION (SELECT 5)					
IP NO	IP/PTI TITLE	INSPECTOR	RPT NO.	COMP	REMARKS
70400 PTI	TEST RESULT EVAL 232.01 480V RX VNT BD	SMITH	93-76	CLOSED	
70400 PTI	TEST RESULT EVAL 235.01 120VAC PWR	SMITH	93-88	CLOSED	
70400 PTI	TEST RESULT EVAL 236.01 125VDC PWR	SMITH	93-88	CLOSED	
70400 PTI	TEST RESULT EVAL				

## OPERATIONAL READINESS INSPECTIONS

ACTIVITY/MODULE	RESOURCE ESTIMATE (PERSON/WEEKS)	SCHEDULE	LEAD INSPECTOR	DATE/ REPORT
QA - Procurement/ 35746	1	Complete	Gibbs	94-201
QA - Receipt, Storage, etc./ 35747	.5	Complete	Gibbs	94-201
Plant Staffing/ 36301	2	2/95 80% complete	Van Doorn	94-48 94-58
* SQN Lessons Learned Technical Issues/ ** various	6	8/94 - 3/95 80% Complete	Van Doorn	94-18 94-58 94-80 95-05
ATWS ** TI 2500/20	1	Complete	Van Doorn	94-84 95-05
* RV Pressure Transient/ ** TI 2500/19	.5	1/23/95	Van Doorn	
* Operation Programs: Fuse Control, Key Control, ** Switch Yard Control, 2** Temporary Alteration Control: ** Operation Aids, ** Overtime Control, Locked Valves, Disabled Annunciators, ** Sensitive Area Program, Configuration Control - final procedure review ** Clearance Program		9/94 - 3/95 Complete 2/21/95 Complete Complete Complete 2/21/95 5/8/95 Complete Complete 3/6/95 Complete	Van Doorn Johnson Roberts Johnson Roberts Taylor Roberts Taylor Keller Keller Johnson Taylor	95-05 95-05 94-84 94-84 (Partial) 95-11 95-11 95-73
** RADCON/ 83522 thru 83528	4	9/94 - 5/95	Kuzo	94-70
* Surveillance ** Program, QA/ 35745	1	1/9/95, 50% 4/3/95	Van Doorn	95-05

\* RI assistance proposed in these areas.

\*\* Ready for inspection.

Attachment 5

C:\WP51\FILES\OPS\OPRSCHED.TBL

**OPERATIONAL READINESS INSPECTIONS**

ACTIVITY/MODULE	RESOURCE ESTIMATE (PERSON/WEEKS)	SCHEDULE	LEAD INSPECTOR	DATE/ REPORT
** Emergency Plan Procedures/ 82102	1	Complete	Sartor	94-69
** ISI Preservice/ Startup/Fuel Load/ Review/ ** 72400, 72500	1	Complete	Crowley	94-89
Refueling Cavity Seal/ ** TI 2515/66	.5	Complete	Van Doorn	94-73
GL 83-28, Item 4.1/ ** TI 2515/91	.5	Complete	Van Doorn	94-73
* DG Fuel Oil/ ** TI 2515/93	.5	Complete	Van Doorn	94-65
* PWR Dilution/ ** TI 2515/94	.5	Complete	Van Doorn	94-73
* Rosemount Pressure Transmitters/ ** TI 2515/122	1	Complete	Van Doorn	94-73
* Check Valves/ ** TI2515/110	2	Complete	Van Doorn	94-84
Conf. Measurements & PASS/TMI II.B.3 84525	2	10/94, 12/94, 3/95, 4/95	Kuzo	
QA - Audits/ ** 35741	1	Complete	Jape	
QA - Design Changes/ ** 35744	1	2/27/95	Jape	
QA - Document Control/ ** 35742	.5	Complete	Jape	
QA - QA/QC Admin/ ** 35740	.5	Complete	Jape	
QA - Records/ ** 35748	1	2/27/95	Jape	

\* RI assistance proposed in these areas.

\*\* Ready for inspection.

**OPERATIONAL READINESS INSPECTIONS**

ACTIVITY/MODULE	RESOURCE ESTIMATE (PERSON/WEEKS)	SCHEDULE	LEAD INSPECTOR	DATE/ REPORT
QA - Tests & Experiments/ ** 35749	.5	3/13/95	Jape	
QA - Maintenance 35743	2	TBD	Gibbs	
Access Authoriza- tion/ ** TI 2515/116	.5	Complete	Tilman	94-77
M&TE Program ** 35750	.5	12/94, 2/95 90% Complete	Van Doorn	94-48
* In Service Testing IWP/VProgram/ TI2515/114/73756	2	Complete	Van Doorn	95-05
Diesel Generator Reliability/	2	5/1/95	Taylor	
Master Issues List, Review of Deferred ** Mods/	2	2/20/95	Van Doorn	
BBB.04 Safety Related Pump Loss/ TI 2515/105	.5	Complete	Van Doorn	3/17/94 94-10
PRA Review/ **	3	3/13/95	Shackleford	
Erosion/Corrosion ** Program/49001	1	Complete	Crowley	94-89
System Engineering/ ** 37551 (2515)	2	4/95	Van Doorn	
50.59 Program/	2	3/95	Gibbs	
Station Blackout/ ** TI 2515/120	1	4/95	Merriweather	
EQ Program/ TI 2515/76	3	12/12/94, 2/27/95	Merriweather	94-74
RG 1.97 PAM/ ** TI 2515/87	2	3/95	Merriweather	

\* RI assistance proposed in these areas.

\*\* Ready for inspection.

**OPERATIONAL READINESS INSPECTIONS**

ACTIVITY/MODULE	RESOURCE ESTIMATE (PERSON/WEEKS)	SCHEDULE	LEAD INSPECTOR	DATE/ REPORT
Emergency Operating Procedures/ ** 42001, 42452	6	12/19/94, 6/95 60%	Mellen	94-86
Rad Waste/ 84522 thru 84524	3	12/94 - 2/95 15% Complete	Kuzo	94-80
<del>Operating Staff Training/ ** 41301</del>	<del>10</del>	<del>Complete</del>	<del>Bartley</del>	<del>95-01</del>
Fire Protection/ 64704	2	1/95	Madden/Miller	
Procedure Program 42400	1	2/95 90% Complete	Van Doorn	93-70 94-11 94-38
* Maint./Engineering Performance Team/ 35743	15	5/95	W. Rogers	
* Limited ORAT/ HFT2 93806	6	4/95	Narbut	
** Security Program/ 81018 thru 85102	6	11/94 - 5/95 75% Complete	Tillman	94-77 95-07
TMI Items/ TI 2515/65	1	1/95 - 4/95 65% Complete	Ivey	
CR Drawing Review/	.5	4/95	Van Doorn	
Rad Monitor/ 80521	1	2/95 90% Complete	Kuzo	
* Loss of RHR/ TI 2515/103	2	5/8/95	Van Doorn	
MOV Testing/ TI 2515/109	3	5/8/95	Girard	
** Electrical Breaker Coordination	2	2/8/95	Shymlock	
* As-Built Plant/Tech Specs 37301, 71301	30	Continuous - 10/94 thru 5/95 20% Complete	Van Doorn	

\* RI assistance proposed in these areas.

\*\* Ready for inspection.

**OPERATIONAL READINESS INSPECTIONS**

ACTIVITY/MODULE	RESOURCE ESTIMATE (PERSON/WEEKS)	SCHEDULE	LEAD INSPECTOR	DATE/ REPORT
* Plant Observations (tours, maint., serv., etc.)/ 71302	8	Continuous	Van Doorn	
* Conduct of OPS)/ 71707 (2515)	15	Continuous	Van Doorn	
* OPS/Surv. Procedures/ 42450	24	Continuous 50%	Van Doorn	
* Maint. Procedures/ 42451	12	Continuous 40%	Van Doorn	
Self-Assessment/ 40500	3	Continuous 60%	Van Doorn	

\* RI assistance proposed in these areas.  
 \*\* Ready for inspection.

## TEMPORARY INSTRUCTIONS

The following list of Temporary Instructions are those from the Inspection Manual Chapters 2500 and 2515 which are deemed appropriate to be inspected at Watts Bar prior to licensing.<sup>1</sup>

<u>Temporary Instruction</u>	<u>Subject</u>	<u>Percent Complete</u>
2500/19	RV Pressure Transient Protection	0
2500/20	Compliance with ATWS Rule	0
2500/27	Fastener Testing for Material Spec.	100%
2500/28	Employee Concerns Programs	100%
2515/65	TMI Action Plan Requirements	65%
2515/66	Refueling Cavity Water Seals	100%
2515/76	Qualification of Electrical Equipment in Harsh Env. <sup>2</sup>	
2515/87	RG 1.97 Post Accident Monitoring	0
2515/91	GL 83-28, Item 4.1	100%
2515/93	DE Fuel Oil, HPA A-15	100%
2515/94	PWR Moderator Dilution Requirements	100%
2515/102	Land Vehicle Bomb Contingency Pro. Ver.	100%
2515/103	Loss of Decay Heat Removal	0
2515/105	BBB-04, Safety-Related Pump Loss	100%
2515/109	GL89-10, MOV Testing and Surveillance	30%
2515/110	Safety-Related Check Valves	100%
2515/116	Access Authorization	100%
2515/120	Station Blackout Rule	0
2515/122	Rosemount Pressure Transmitter Performance and Surveillance	100%

<sup>1</sup> The following MC 2500 and 2515 TIs were not done for the reasons indicated.

- TIs 2515/85, 2515/90, 2515/95, 2515/96, & 2515/99 - BWR related.
- TIs 2515/97 & 2515/108 - Assessment of maintenance readiness is better performed under the 2513 program.
- TIs 2515/107 & 2515/111 - Effectiveness of electrical distribution scheme is better judged through design reviews and pre-operational test results at the N1OL stage.
- TIs 2515/112 & 2515/114 - the normal licensing process provides a better evaluation of these areas.
- TI 2515//113 - more appropriate to be done before first refueling outage (2515/103 is being completed).

<sup>2</sup> To be inspected in conjunction with the CAP of Environmental Qualification; the first inspection was conducted in December 1994. This inspection concluded that the programmatic aspects of the TVA-Watts Bar EQ program were acceptable and, if implemented appropriately, would result in a satisfactory EQ program.