cc w/encls: Continued
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cc w/encls continued: See page 4

cc w/encls: Continued
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| OFFICE | RII:DRP | RII:DRS | RII:DRS | RII:DRS | RII:DRS | | |
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| NAME | TMorrissey alt | KLandis | GBelisle | KBarr | CChristensen | | |
| DATE | 10/ 6 /99 | 10/ 6 /99 | 10/ 6 /99 | 10/ 12 /99 | 10/ 13 /99 | 10/ /99 | 10/ /99 |
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October 14, 1999

Tennessee Valley Authority
ATTN: Mr. J. A. Scalice
Chief Nuclear Officer and
Executive Vice President
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: MID-CYCLE PLANT PERFORMANCE REVIEW (PPR) - WATTS BAR NUCLEAR PLANT

Dear Mr. Scalice:

On September 30, 1999, the NRC staff completed the mid-cycle Plant Performance Review (PPR) of the Watts Bar Nuclear Plant. The staff conducted these reviews for all operating nuclear power plants to integrate performance information and to plan for inspection activities at your facility over the next five months. The focus of this performance review was to identify changes in performance over the past six months, and to allocate inspection resources accordingly.

We did not identify any areas in which your performance warranted more than the core inspection program. Based on this review, we plan to conduct only core inspections at your facility over the next five months.

Enclosure 1 contains a historical listing of plant issues, referred to as the Plant Issues Matrix (PIM), that were considered during this PPR process to arrive at an integrated review of licensee performance trends. The PIM includes items summarized from inspection reports or other docketed correspondence between the NRC and Tennessee Valley Authority from October 1, 1998, to September 30, 1999. As noted above, greater emphasis was placed on those issues identified in the past six months during this performance review. The NRC does not attempt to document all aspects of licensee programs and performance that may be functioning appropriately. Rather, the NRC only documents issues that the NRC believes warrant management attention or represent noteworthy aspects of performance. In addition, the PPR may also have considered some predecisional and draft material that does not appear in the attached PIM, including observations from events and inspections that had occurred since the last NRC inspection report was issued, but had not yet received full review and consideration. Once this predecisional material is finalized it will be placed in the Public Document Room as part of normal issuance of NRC inspection reports and other correspondence.

This letter advises you of our plans for future inspection activities at your facility so that you will have an opportunity to prepare for these inspections and to provide us with feedback on any planned inspections that may conflict with your plant activities. Enclosure 2 details our

IE01

inspection plan through March 2000 to coincide with the scheduled implementation of the revised reactor oversight process in April 2000. Routine resident inspections are not listed due to their ongoing and continuous nature.

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4530 with any questions you may have.

Sincerely,

(Original signed by Paul E. Fredrickson)

Paul E. Fredrickson, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket Nos. 50-390, 50-391
License No. NPF-90 and Construction
Permit No. CPPR-92

Enclosures:
1. Plant Issues Matrix
2. Inspection Plan

cc w/encls:
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Nuclear Operations
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cc w/encls continued: See page 3

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 09/25/1999 | 1999008 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **ENGINEERED SAFETY FEATURE WALKDOWN**<br>An engineered safety feature system walkdown of portions of the auxiliary feedwater and 120 volt DC vital control power system identified system lineup, material condition, and housekeeping to be acceptable.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 09/25/1999 | 1999008 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 3A<br>Ter: | **CONDUCT OF OPERATIONS**<br>The conduct of operations was professional and safety conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing, and assistant unit operator activities.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 09/25/1999 | 1999008 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **MANAGEMENT REVIEW COMMITTEE**<br>The Management Review Committee exhibited a questioning attitude regarding corrective action plans and adequacy of immediate corrective actions for problems associated with problem evaluation report (PER) initiations. Corrective action plans were typically thorough; however, the inspector identified that some corrective actions taken were not always documented thoroughly in the PERs. The licensee had previously recognized incomplete documentation as a general problem, and steps were being taken to correct the problem.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 09/25/1999 | 1999008 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **PLANT OPERATIONS REVIEW COMMITTEE**<br>The Plant Operations Review Committee exhibited thorough questioning of issues brought to the committee for approval.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 09/25/1999 | 1999008 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **OPERATIONS SELF-ASSESSMENT**<br>An Operations self-assessment showed that a comprehensive review had been performed of the configuration control area.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 09/25/1999 | 1999008-01 | Pri: OPS<br>Sec: | Licensee | NCV | Pri: 1A<br>Sec: 3A<br>Ter: | **VITAL BATTERY BOARD INOPERABLE GREATER THAN TS TIME LIMIT**<br>A non-cited violation was identified for having one vital battery board inoperable for greater than the Technical Specification time limit.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

ENCLOSURE 1

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 08/14/1999 | 1999007 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **ENGINEERED SAFETY FEATURE SYSTEM WALKDOWN**<br>An engineered safety feature system walkdown of portions of the component cooling water system identified system lineup, material condition and housekeeping to be acceptable.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 08/14/1999 | 1999007 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 3A<br>Ter: | **CONDUCT OF OPERATIONS**<br>The conduct of operations was professional and safety conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing, and assistant unit operator activities. Operations carefully followed requirements during tritium producing burnable absorber assembly transfer and shipment.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 08/14/1999 | 1999007 | Pri: OPS<br>Sec: | NRC | POS | Pri: 3B<br>Sec:<br>Ter: | **USE OF INDUSTRY EXPERIENCE IN TRAINING**<br>The licensee made use of industry experience in planning training and simulator casualty scenarios. A notable example was training on loss of vital inverters which included lessons learned from a November 1998 Sequoyah loss of vital inverter event.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 08/14/1999 | 1999007 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **MANAGEMENT REVIEW COMMITTEE**<br>The Management Review Committee exhibited a questioning attitude regarding corrective action plans and adequacy of immediate corrective actions for problems associated with problem evaluation report initiations. Corrective action plans were typically complete with minor exceptions which were not regulatory matters.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 08/14/1999 | 1999007 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **PLANT OPERATIONS REVIEW COMMITTEE**<br>The Plant Operations Review Committee exhibited thorough questioning of issues being approved.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 08/14/1999 | 1999007-01 | Pri: OPS<br>Sec: | Licensee | NCV | Pri: 1A<br>Sec:<br>Ter: | **FAILURE TO MAINTAIN TWO TRAINS OF EMERGENCY GAS TREATMENT SYSTEM OPERABLE**<br>A non-cited violation was identified for both trains of the emergency gas treatment system being out-of-service for approximately 23 minutes. An improper hold order contributed to both trains being inoperable.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 07/03/1999 | 1999004 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **CONDUCT OF OPERATIONS**<br>The conduct of operations was professional and safety-conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing, and assistant unit operator activities. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 07/03/1999 | 1999004 | Pri: OPS<br>Sec: | NRC | POS | Pri: 3C<br>Sec:<br>Ter: | **OVERTIME USE**<br>The licensee was adequately controlling overtime use in accordance with Technical Specification 5.2.2. Routine heavy use of overtime was not evident and licensee reviews of overtime use were adequate. Occasional use in excess of overtime guidelines was properly authorized. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 07/03/1999 | 1999004 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **APPROACH TO PROBLEMS**<br>The licensee has continued to implement a thorough and self-critical approach to problems. A low threshold for initiation of problem evaluation reports was demonstrated. Corrective action plans were typically thorough. Occasional problems were noted by the Management Review Committee and corrected. Oversight by Nuclear Assurance (NA) was broad-based with good findings noted, and areas identified by NA for additional attention were appropriate. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 07/03/1999 | 1999004 | Pri: OPS<br>Sec: MAINT | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **ENGINGEERED SAFETY SYSTEM WALKDOWN**<br>An engineered safety feature system walkdown of portions of the diesel generator system and 120 volt AC vital power system was conducted. No substantive concerns were identified as a result of this walkdown and system lineup, material condition, and housekeeping were acceptable. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/22/1999 | 1999003 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **CONDUCT OF OPERATIONS**<br>The conduct of operations was professional and safety-conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing, and assistant unit operator activities. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/22/1999 | 1999003 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 3A<br>Ter: | **REACTOR STARTUP**<br>Reactor startup at the end of the Cycle 2 refueling outage was conducted in accordance with procedure and was characterized by clear communications and positive control from the unit supervisor. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 05/22/1999 | 1999003 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **APPROACH TO PROBLEMS**<br>A self-critical approach to problems was demonstrated during implementation of the corrective action program. Corrective actions were thorough and operability evaluations adequate. A Nuclear Safety Review Board assessment was consistent with NRC observations.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/22/1999 | 1999003 | Pri: OPS<br>Sec: MAINT | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **ENGINEERED SYSTEM WALKDOWN**<br>An engineered safety feature system walkdown of portions of the safety injection system, the auxiliary feedwater system, and the chemical and volume control system was conducted. No substantive concerns were identified as a result of this walkdown and system lineup, material condition, and housekeeping were acceptable.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 04/16/1999 | 1999301 | Pri: OPS<br>Sec: | NRC | NEG | Pri: 3B<br>Sec:<br>Ter: | **OPERATOR LICENSING EXAMINATIONS**<br>During initial operator and senior operator applicant examinations, a generic weakness was identified in the ability of applicants to locally reset emergency diesel generator trips, and in their knowledge of auxiliary feedwater system operation.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 04/16/1999 | 1999301 | Pri: OPS<br>Sec: | NRC | POS | Pri: 3B<br>Sec:<br>Ter: | **OPERATOR LICENSING EXAMINATIONS**<br>Seven senior reactor operator applicants and five reactor operator reactor operator applicants received written examinations and operating tests. The as-submitted written examination and operating tests met the requirements of NUREG-1021. Eleven of twelve applicants passed the examination. One senior reactor operator applicant failed the written examination.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 04/10/1999 | 1999002 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **CONDUCT OF OPERATIONS**<br>The conduct of operations was professional and safety-conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing, and assistant unit operator activities.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 04/10/1999 | 1999002 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **SAFETY INJECTION SYSTEM WALKDOWN**<br>An engineered safety feature system walkdown of the safety injection system was conducted. No substantive concerns were identified as a result of this walkdown and system lineup, material condition, and housekeeping were acceptable.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 04/10/1999 | 1999002 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 3C<br>Ter: | **REACTOR COOLANT SYSTEM DRAINDOWN**<br>Operations during reactor coolant system (RCS) draindown operations and RCS midloop and vacuum fill operations were well controlled and well planned. Briefings were thorough and focused on safety. Senior management oversight during RCS drain and vacuum fill operations was regarded as a strength. Midloop operations were conducted safely and the time spent in midloop was minimized.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 04/10/1999 | 1999002 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **APPROACH TO PROBLEMS**<br>The licensee has continued to implement a thorough and self-critical approach to problems. A low threshold for initiation of problem evaluation reports (PERs) was demonstrated. Corrective action plans were typically thorough. Occasional problems were noted by the Management Review Committee (MRC) and corrected. Some increase in the MRC rejection rate for corrective action plans was appropriately recognized and highlighted by licensee management. Prioritization of PERs for mode changes was appropriately conservative. A good initiative was noted, in that, a weekly corrective action analysis was provided to managers during the outage period to highlight areas needing attention. Thorough Nuclear Assurance oversight of operational activities was noted.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 02/27/1999 | 1999001 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **Conduct of Operations**<br>The conduct of operations was professional and safety-conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing, and assistant unit operator activities.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 02/27/1999 | 1999001 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **RHR Detailed System walkdown**<br>A detailed engineered safety feature system walkdown of the residual heat removal (RHR) system was performed. System lineup was in accordance with design basis documents and the system engineer was knowledgeable of system design, operation, and maintenance. The RHR system was in good material condition and support systems were operational. System performance met Maintenance Rule performance criteria.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 02/27/1999 | 1999001 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **Self-critical and Thorough Approach to Problems**<br>A continued self-critical and thorough approach to problems was demonstrated during self-assessment activities. Corrective action plans were thorough. Beneficial findings were identified by the Nuclear Assurance department.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 01/16/1999 | 1998011 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **Conduct of Operations**<br>The conduct of Operations was professional and safety-conscious. Requirements were met for control room conduct and other areas reviewed such as turnovers, tagouts, documentation, staffing and assistant unit operator activities.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 01/16/1999 | 1998011 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 2A<br>Ter: | **Engineered Safety Feature System Walkdown- Aux Feedwater system**<br>An engineered safety feature system walkdown of the auxiliary feedwater system identified one labeling deficiency and one nomenclature error on the system drawing. The deficiencies were placed in the licensee's Corrective Action Program. No substantive concerns were identified as a result of this walkdown and operability, material condition and housekeeping were acceptable. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 01/16/1999 | 1998011 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **Self-assessment**<br>A continued self-critical and thorough approach to problems was noted in the area of self-assessment activities. Beneficial findings were identified by the Nuclear Assurance department. The Management Review Committee's overview of departmental self-assessments was considered to be a continuing good practice which helped management to assess quality of assessments and make appropriate comments and suggestions. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 01/16/1999 | 1998011 | Pri: OPS<br>Sec: MAINT | NRC | POS | Pri: 2A<br>Sec: 2B<br>Ter: | **Walkdown Freeze Protection System**<br>A walkdown of the licensee's freeze protection system found no equipment problems. Two procedure deficiencies were noted and were corrected by the licensee. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **CONDUCT OF OPERATIONS**<br>In general, the conduct of operations was professional and safety-conscious. Requirements were met for control room (CR) conduct, crew turnovers, logging, standing and night orders, CR staffing, tagouts, and assistant unit operator activities. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: OPS<br>Sec: | NRC | POS | Pri: 3B<br>Sec:<br>Ter: | **ANNUAL OPERATING EXAMINATIONS**<br>The conduct and performance of the annual operating examinations was satisfactory. The evaluators were thorough in noting individual performance discrepancies. The scenarios and job performance measures observed were effective in discriminating non-competent from competent operators. Documentation of individual performance results was satisfactory. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: OPS<br>Sec: | NRC | POS | Pri: 3B<br>Sec:<br>Ter: | **10CFR 55.59 TRAINING**<br>The inspector determined that the licensee properly ensured that all licensed operators had completed the required training for cycle 98-4 as required by 10 CFR 55.59 and facility training procedures. No operators failed the weekly test. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 12/05/1998 | 1998010 | Pri: OPS<br>Sec: OTHER | NRC | POS | Pri: 5A<br>Sec: 2A<br>Ter: | **MINOR REACTOR COOLANT LEAK- LICENSEE RESPONSE**<br>The licensee took prompt and conservative action to deal with a minor reactor coolant system leak in the hot leg sampling line. The licensee determined the magnitude and location of the leak and isolated the source of the leak. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: OPS<br>Sec: OTHER | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **SELF-ASSESSMENT**<br>The licensee has continued to implement a thorough and self-critical approach to problems with strong management attention in the self-assessment area. Corrective actions were thorough and a questioning attitude was exhibited. The licensee continued to provide appropriate management attention to out-of-position issues. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: OPS<br>Sec: OTHER | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: 5C | **IMPLEMENTATION OF OPERATIONS SELF-ASSESSMENT**<br>The licensee has implemented a beneficial operations self-assessment process. Improvement was warranted regarding the programmatic self-assessment portion of the process. The licensee had recognized this need, and an action plan was established for improvement . |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1A<br>Sec:<br>Ter: | **CONDUCT OF OPERATIONS**<br>In general, the conduct of Operations was professional and safety-conscious including crew turnovers, assistant unit operator rounds, and tagouts. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009 | Pri: OPS<br>Sec: | NRC | POS | Pri: 1B<br>Sec: 5B<br>Ter: | **TURBINE RUNBACK**<br>The inspector observed a well coordinated response to transients in the feed and condensate system and failure of two plant control systems. Good communications, teamwork, and system knowledge were demonstrated when the crew initiated a manual turbine runback and stabilized the plant. The crew responded in accordance with procedure to a separate turbine runback caused by a main feed pump turbine trip. Licensee investigations were thorough and corrective actions addressed the root causes of the events |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009 | Pri: OPS<br>Sec: | NRC | POS | Pri: 2A<br>Sec: 1A<br>Ter: | **AUXILIARY BUILDING GAS TREATMENT SYSTEM (ABGTS) and 125 V DC VITAL POWER SYSTEM WALKDOW**<br>The inspector walked down accessible portions of the Auxiliary Building Gas Treatment System (ABGTS) and observed ABGTS vent filter testing. The inspector walked down accessible portions of the 125 volt DC Vital Power System. No substantive concerns were identified as a result of these walkdowns |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
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Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 10/24/1998 | 1998009 | Pri: OPS<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **QUALITY ASSURANCE IN OPERATIONS**<br>Management Review Committee meetings, Plant Operations Review Committee meeting, selected Problem Evaluation Reports and Nuclear Assurance department oversight activities and findings were reviewed. The licensee has continued to implement a thorough and self-critical approach to problems. The licensee demonstrated a low threshold for identification of problems. Diverse Nuclear Assurance oversight was noted with some good findings noted |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Fifteen maintenance and surveillance activities were adequately performed. Maintenance personnel were knowledgeable and carefully followed procedures to resolve plant equipment and component problems. Work performed was typically well documented. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 5A<br>Ter: | **MAINTENANCE SELF-ASSESSMENT**<br>A Maintenance program self-assessment was very thorough and performance oriented. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Eleven maintenance and surveillance activities were adequately performed. Maintenance personnel were knowledgeable and, with one exception, carefully followed procedures to resolve plant equipment and component problems. Work performed was typically well documented. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007-02 | Pri: MAINT<br>Sec: | NRC | NCV | Pri: 3A<br>Sec:<br>Ter: | **FAILURE TO FOLLOW CALIBRATION PROCEDURE**<br>Two successive calibrations of instrument loop 1-LPF-62-93C were performed incorrectly in that components were left outside as-left acceptance criteria. Failure to correctly calibrate the charging header flow instrument in accordance with an approved procedure was a non-cited violation. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 07/03/1999 | 1999004 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2A<br>Sec: 2B<br>Ter: | **UNIT 2 EQUIPMENT LAY-UP**<br>The licensee's maintenance of Unit 2 equipment in lay-up was adequate and administration of the Unit 2 lay-up program was acceptable. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 07/03/1999 | 1999004 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec:<br>Ter: | **SENSITIVITY TO OPERATION CONCERNS**<br>Maintenance demonstrated a good sensitivity to operations concerns and thoroughly tracked problems and backlogs. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 07/03/1999 | 1999004 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Five maintenance and surveillance activities observed were adequately performed. Maintenance personnel were knowledgeable and carefully followed procedures to resolve plant equipment and component problems. Work performed was typically well-documented. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 06/03/1999 | 1999006-01 | Pri: MAINT<br>Sec: | NRC | NCV | Pri: 5A<br>Sec: 3A<br>Ter: | **FAILURE TO PROMPTLY IDENTIFY ICE CONDENSER DEBRIS.**<br>A non-cited violation of 10CFR50, Appendix B, Criterion XVI, was identified for failure to promptly identify Ice Condenser debris. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 06/03/1999 | 1999006-02 | Pri: MAINT<br>Sec: | NRC | NCV | Pri: 5A<br>Sec: 2B<br>Ter: | **FAILURE TO PROMPTLY IDENTIFY ICE CONDENSER BASKET DAMAGE.**<br>A non-cited violation was identified for failure to promptly identify a damaged ice basket. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 06/03/1999 | 1999006-04 | Pri: MAINT<br>Sec: | NRC | NCV | Pri: 2A<br>Sec:<br>Ter: | **FAILURE TO MEET TECHNICAL SPECIFICATIONS FOR ICE CONDENSER INLET DOORS OPENING TORQUE.**<br>A non-cited violation was identified for failure to meet Technical Specification for Ice Condenser inlet door opening torque. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 06/03/1999 | 1999006-03 | Pri: MAINT<br>Sec: ENG | NRC | NCV | Pri: 5A<br>Sec: 4B<br>Ter: | **FAILURE TO PROMPTLY DOCUMENT ICE BASKET WEIGHT WHICH EXCEEDED DESIGN BASIS REQUIREME**<br>A non-cited violation was identified for failure to promptly document a condition adverse to quality involving ice baskets which were over the seismic analysis weight limit. Analysis showed that past operability was not affected. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
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| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 05/22/1999 | 1999003 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2B<br>Ter: | **MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Eight maintenance and surveillance activities were adequately performed. Maintenance personnel were knowledgeable and carefully followed procedures to resolve plant equipment and component problems. Work performed was typically well-documented. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/22/1999 | 1999003 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3C<br>Sec: 2A<br>Ter: | **FIXING EQUIPMENT PROBLEMS**<br>A strong sensitivity to correcting equipment problems affecting operations was demonstrated during the Cycle 2 refueling outage. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/22/1999 | 1999003-01 | Pri: MAINT<br>Sec: | Licensee | NCV | Pri: 4B<br>Sec: 2A<br>Ter: | **FAILURE TO IMPLEMENT ADEQUATE PROCEDURES FOR A FIRE BARRIER.**<br>Non-Cited Violation was identified for failure to implement adequate procedures to maintain a fire barrier on a nuclear source range instrument cable |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/22/1999 | 1999003 | Pri: MAINT<br>Sec: ENG | NRC | POS | Pri: 5B<br>Sec: 5C<br>Ter: | **EVALUATION OF STEAM GENERATOR LEAK**<br>The licensee conducted an adequate evaluation of a steam generator manway steam leak for continued operation, conducted a thorough root cause analysis, and implemented appropriate repairs for the leak. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2A<br>Sec:<br>Ter: | **ICE CONDENSER LOWER PLENUM INSPECTION**<br>Lower plenum inspections found housekeeping to be satisfactory. Also, no examples of excessive ice flow blockage were noted during these lower ice condenser plenum tours. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2A<br>Sec: 2B<br>Ter: | **ICE CONDENSER UPPER DECK BLANKET OUTAGE ACTIVITIES**<br>Completed outage activities for the Unit 1 upper deck blankets were adequately performed. The material condition of the ice condenser upper deck blankets was acceptable. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

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|---|---|---|---|---|---|---|
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2A<br>Sec: 2B<br>Ter: | **ICE CONDENSER CONTAINS SUFFICIENT ICE TO MEET REQUIREMENTS**<br>Observations and detailed data reviews provided assurance that sufficient ice remained in the Ice Condenser to meet the design basis and Technical Specification requirements.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec:<br>Ter: | **ICE CONDENSER SURVEILLANCE RESULTS**<br>Ice Condenser surveillance results met procedural and Technical Surveillance requirements.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **ICE WEIGHING AND SERVICING ACTIVITIES**<br>Personnel followed procedures during ice weighing and servicing activities with minor exceptions which were discussed with the licensee.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2A<br>Ter: 3B | **TECHNICAL SPECIFICATION INTERMEDIATE DECK DOOR SURVEILLANCE**<br>The Technical Specifications required surveillance for intermediate deck doors was performed by trained personnel who were thoroughly familiar with the requirements. The material condition of the intermediate deck doors was acceptable.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: ENG | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **ICE BASKET SCREW PROCURMENT UPGRADE**<br>Procurement upgrade for replacement ice basket screws, and control and storage of replacement screws used during the outage were adequate.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/03/1999 | 1999006 | Pri: MAINT<br>Sec: ENG | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **ICE CONDENSER SURVEILLANCE PROCEDURES**<br>Ice Condenser surveillance procedures were clearly written and met Technical Specification requirements.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

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|---|---|---|---|---|---|---|
| 04/10/1999<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | 1999002 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 1A<br>Sec: 3C<br>Ter: | **OUTAGE ACTIVITIES**<br>Outage activities were generally well-controlled, with good management oversight and emphasis on risk management. Refueling operations were conducted carefully including handling of lead test assemblies and inspection of fuel assembly inlet nozzles during offload. Outage activities in containment were well-controlled, and the inspectors found the containment closeout to be adequate. |
| 04/10/1999<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | 1999002 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Twenty maintenance and surveillance activities were adequately performed. Maintenance personnel were knowledgeable and carefully followed procedures to resolve plant equipment and component problems. Work performed was typically well-documented. |
| 04/10/1999<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | 1999002 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3C<br>Ter: | **RISK ASSESSMENT AND REDUCTION**<br>Licensee management was focused on risk assessment and risk reduction through planning and frequent review. The Outage Risk Assessment and Management program was an effective tool for the licensee and was utilized extensively to minimize risk and avoid compromising protected train safety and support equipment. |
| 04/10/1999<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | 1999002 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3B<br>Sec: 2B<br>Ter: 4B | **INSERVICE EXAMINATION ACTIVITIES**<br>Inservice examination activities were performed using approved procedures by certified examiners who were skillful in the use of the test equipment, knowledgeable of the test methods, and who properly recorded and evaluated inspection results in accordance with the appropriate test procedures. Documentation reviewed was complete and evaluations/acceptance of examination results were conducted in accordance with the applicable procedures, technical specifications and industry standards. Engineering demonstrated a noteworthy persistence in solving problems and performing valid examinations. |
| 02/27/1999<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | 1999001 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **Maintenance and Surveillance Activities**<br>Nine maintenance and surveillance activities were adequately performed, and Maintenance provided good support to resolve plant equipment or component problems. Work performed was typically well documented. |
| 01/16/1999<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | 1998011 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2B<br>Ter: | **Maintenance and Surveillance Observation**<br>Five maintenance and surveillance activities were adequately performed and Maintenance provided good support to resolve plant equipment or component problems. Work performed was typically well-documented. |

Item Type (Compliance,Followup.Other), From 10/01/1998 To 04/01/2000

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|---|---|---|---|---|---|---|
| 12/31/1998 | 1998010-03 | Pri: MAINT<br>Sec: | NRC | VIO IV | Pri: 3A<br>Sec: 4B<br>Ter: | **FAILURE TO UTILIZE ACTUAL WEIGHTS FOR ICE BASKET TS EVALUATION.**<br>A violation was identified for failure to use actual weights for two of the required Technical Specification ice basket samples |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Thirteen maintenance and surveillance activities were adequately performed and maintenance provided good support to resolve plant equipment or component problems. Work performed was typically well documented |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 4B<br>Ter: | **ICE CONDENSER ICE WEIGHING PROCESS**<br>The Ice Condenser ice weighing process was sufficient to assure accurate ice weight was obtained and the probability for basket damage was minimized |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 3C<br>Sec: 3B<br>Ter: | **D/G WELL PLANNED OUTAGES**<br>Well planned outages for diesel generators led to substantial reductions in unavailability times while tests and maintenance items were conducted in accordance with procedure by knowledgeable personnel. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: MAINT<br>Sec: OTHER | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **MAINTENANCE SELF ASSESSMENT**<br>A maintenance self-assessment was broad-based covering multiple maintenance areas. The assessment was self-critical and led to identification of good areas for improvement. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: MAINT<br>Sec: OTHER | NRC | POS | Pri: 5A<br>Sec: 5C<br>Ter: | **DAMAGED ICE BASKETS WERE EFFECTIVELY IDENTIFIED AND APPROPRIATE REPAIR WAS CONDUCTED**<br>Damaged ice baskets were effectively identified and appropriate repair was conducted. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

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|---|---|---|---|---|---|---|
| 10/24/1998 | 1998009 | Pri: MAINT<br>Sec: | NRC | POS | Pri: 2B<br>Sec: 3A<br>Ter: | **CONDUCT OF MAINTENANCE AND SURVEILLANCE ACTIVITIES**<br>Nine maintenance and surveillance activities were adequately performed and Maintenance provided good support to resolve plant equipment or component problems. Work performed was typically well documented |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009 | Pri: MAINT<br>Sec: | Licensee | POS | Pri: 5B<br>Sec: 5C<br>Ter: | **LICENSEE INVESTIGATION INTO TWO PERSONNEL SAFETY EVENTS WAS IMMEDIATE AND THOROUGH.**<br>Licensee investigation into two personnel safety events was immediate and thorough. Senior management was involved in the process. Corrective actions were timely and addressed the root causes |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: ENG<br>Sec: | NRC | POS | Pri: 2A<br>Sec:<br>Ter: | **ICE CONDENSER SCREWS SATISFACTORY FOR USE**<br>Ice condenser (IC) basket coupling screw testing conducted during the Spring 1999 refueling outage demonstrated that the installed and warehouse screws could resist the accident loads with 2 or 4 screws missing from a 12-screw ring and that the probability of having multiple screws missing from a single joint was small. IC operability was not impacted by missing screws; and, although the testing analysis contained weaknesses, none of the weaknesses resulted in an unsafe condition with regard to the IC baskets. The installed and warehouse ice basket coupling screws were satisfactory for use. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **ENGINEERING ACTIVITIES**<br>Engineering activities reviewed were thorough and technically viable. Plant equipment problems were being addressed commensurate with plant safety. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **ENGINEERING ACTION FOR REPEAT FAILURE OF H2 IGNITORS**<br>The licensee's actions for repeat failures of hydrogen ignitors were considered reasonable. The licensee's evaluation was thorough, and an appropriate consideration for placing the system in A(1) Maintenance Rule status was conducted since performance criteria had been exceeded. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **ENGINEERING ACTIVITIES**<br>Engineering activities reviewed were thorough and technically viable. Plant equipment problems were being addressed commensurate with plant safety. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

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|---|---|---|---|---|---|---|
| 07/03/1999 | 1999004 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **ENGINEERING ACTIVITIES**<br>Engineering activities reviewed were thorough and technically viable. Plant equipment problems were being addressed commensurate with plant safety. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/22/1999 | 1999003 | Pri: ENG<br>Sec: | NRC | NEG | Pri: 4B<br>Sec: 5B<br>Ter: | **ENGINEERING EVALUATION**<br>The licensee's initial evaluation of measured leakage through a main feed bypass check valve lacked depth in that it did not consider all pertinent design parameters. Engineering expanded the evaluation after being questioned by the inspector and determined the leakage was acceptable. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/03/1999 | 1999006 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **ICE CONDENSER BASKET SCREW SAMPLING PROGRAM**<br>The Ice Condenser basket screw in-use sampling program was thorough and the testing program was a conservative method of assessing the load capability of the installed ice basket screws. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/03/1999 | 1999006 | Pri: ENG<br>Sec: | NRC | POS | Pri: 5B<br>Sec: 5A<br>Ter: | **ICE CONDENSER SELF-ASSESSMENT**<br>An Ice Condenser (IC) self-assessment conducted in late-1998 was thorough and identified a number of substantial findings. Also, independent assessments of IC activities were both thorough and frequently conducted. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/03/1999 | 1999006 | Pri: ENG<br>Sec: MAINT | NRC | NEG | Pri: 5C<br>Sec: 3C<br>Ter: | **CORRECTIVE ACTION PLANS AND MANAGEMENT OVERSIGHT**<br>The licensee's review of problems for reportability was adequate and individual Corrective Action Plans were typically thorough. However, a weakness was noted regarding project management oversight, in that, a number of problems could have been prevented with more thorough oversight. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 05/03/1999 | 1999006 | Pri: ENG<br>Sec: MAINT | NRC | POS | Pri: 4B<br>Sec: 2A<br>Ter: | **ICE CONDENSER LOWER PLENUM FLOOR MOVEMENT PROGRAM**<br>The program for monitoring lower plenum floor movement was thorough and assured inlet door operability. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

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|---|---|---|---|---|---|---|
| 04/10/1999 | 1999002 | Pri: ENG<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **MRC AND PORC ACTIVITIES**<br>Timely and thorough support was noted in the areas reviewed, which included emergent issues and other activities such as Management Review Committee and Plant Operations Review Committee meetings. A safety evaluation was thorough and technically adequate. |
| 03/26/1999 | 1999001-02 | Pri: ENG<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | NCV | Pri: 4A<br>Sec:<br>Ter: | **FAILURE TO USE SPRING CHARGING MOTOR INRUSH CURRENT IN BATTERY CALULATION**<br>An non-cited violation related to inadequate design control for failure to use spring charging motor inrush current in battery sizing calculation was identified in connection with replacements for obsolete spring charging motors. |
| 03/26/1999 | 1999001-03 | Pri: ENG<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | NCV | Pri: 4B<br>Sec:<br>Ter: | **INADEQUATE PROCEDURE FOR EVALUATION OF HEAVY WEIGHT ICE BASKETS**<br>An non-cited violation was identified for having an inadequate procedure for evaluation of heavy weight ice baskets |
| 03/26/1999 | 1999001-01 | Pri: ENG<br>Sec: MAINT<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | NCV | Pri: 3A<br>Sec: 4C<br>Ter: | **FAILURE TO FOLLOW PROCEDURE FOR PROCUREMENT OF REPLACEMENT PARTS**<br>Two examples of failure to follow procedure for procurement of replacement parts were identified as a non-cited violation. Special instructions for tagging differential pressure switches were not followed and performance of a specified post installation test to qualify a commercial grade dedicated replacement part was not verified. |
| 02/27/1999 | 1999001 | Pri: ENG<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **Procurement Technical Evaluations**<br>The Procurement Engineering Group provided adequate technical evaluations to verify acceptability of substitution for obsolete parts. |
| 02/27/1999 | 1999001 | Pri: ENG<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **Commercial Grade Dedication Program**<br>The program implementation for commercial grade dedication was adequate. Technical evaluations for commercial grade dedications identified appropriate component critical characteristics and documented these as acceptance criteria. |

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|---|---|---|---|---|---|---|
| 02/27/1999 | 1999001 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **Engineering Evaluations**<br>Engineering personnel effectively contributed to management review committees. Evaluations of equipment problems were thorough and technically viable. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 02/27/1999 | 1999001 | Pri: ENG<br>Sec: | NRC | POS | Pri: 5A<br>Sec:<br>Ter: | **Self-assessment of Replacement Parts**<br>Self-assessments of the replacement parts procurement process were adequate. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 02/27/1999 | 1999001 | Pri: ENG<br>Sec: | NRC | POS | Pri: 5C<br>Sec:<br>Ter: | **Resolution of Receipt Inspection Discrepancies**<br>Resolution of receipt inspection discrepancies was effective, although one example was identified in which the extent of condition review was deficient. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 01/16/1999 | 1998011 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4A<br>Sec:<br>Ter: | **Safety evaluation of the supplemental condenser circulating water system modification**<br>The safety evaluation of the supplemental condenser circulating water system modification thoroughly documented issues which could potentially affect nuclear safety and was reviewed in detail by licensee management |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 01/16/1999 | 1998011 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **Engineering Evaluations**<br>Good support was noted in the areas reviewed which included emergent issues and other activities such as Management Review Committee and Plant Operations Review Committee . Evaluations were thorough and technically adequate. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 01/16/1999 | 1998011 | Pri: ENG<br>Sec: | NRC | POS | Pri: 5A<br>Sec: 5B<br>Ter: | **Engineering Self-assessments**<br>The Engineering self-assessments reviewed were detailed and thorough. Results were reviewed by licensee management and, where necessary, were tracked by the licensee's Corrective Action Program. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

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|---|---|---|---|---|---|---|
| 12/05/1998 | 1998010 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4A<br>Sec:<br>Ter: | **ICE CONDENSER MODIFICATIONS**<br>Previous modifications to the ice condenser system have been completed in accordance with approved modification procedures and were in accordance with the Updated Final Safety Analysis Report |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec:<br>Ter: | **ICE CONDENSOR REPORTABILITY**<br>The licensee has an effective program in place to document and evaluate issues for reportability/operability. The inspectors' review of problem evaluation reports involving Ice Condenser ( IC) components determined that the licensee's reviews and evaluations for reportability/operability were satisfactory. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 12/05/1998 | 1998010 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **ENGINEERING SUPPORT ACTIVITIES**<br>Engineering support activities for emergent issues, plant operations review committee and management review committee meetings were reviewed. Evaluations were typically thorough and technically adequate. Appropriate support was provided to committees contributing to the self-critical approach to problems |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4B<br>Sec: 5B<br>Ter: | **CONDUCT OF ENGINEERING**<br>The inspectors observed Engineering support activities for emergent issues, observed Plant Operations Review Committee and Management Review Committee meetings, reviewed Engineering analyses in support of determining operability of ice condenser (IC) blankets.. The inspectors also reviewed the Engineering program for monitoring of IC floor movement. Good support was noted in the areas reviewed. Evaluations were typically thorough and technically adequate; however, one self-identified problem was noted regarding an inadequate evaluation. Appropriate support was provided to committees contributing to the self-critical approach to problems. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009 | Pri: ENG<br>Sec: | NRC | POS | Pri: 4C<br>Sec: 4B<br>Ter: | **The licensee has implemented an adequate program to monitor Ice Condenser floor slab movement to assur**<br>The licensee has implemented an adequate program to monitor Ice Condenser floor slab movement to assure inlet doors remain operable |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 10/24/1998 | 1998009-01 | Pri: ENG<br>Sec: | Licensee | NCV | Pri: 4B<br>Sec: 5B<br>Ter: | **Containment purge configuration inconsistant with the UFSAR.**<br>The licensee identified that a containment purge configuration had been used which was inconsistent with the description of plant operation contained in the Updated Final Safety Analysis Report. The licensee performed a thorough root cause evaluation and planned appropriate corrective actions. The safety significance of the condition was small and resulted in a non-cited violation |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **CONTROL OF LIQUID AND GASEOUS EFFLUENTS**<br>The licensee was maintaining an effective program for the control of liquid and gaseous radioactive effluents from the plant. The radiation doses from those releases were a small percentage of regulatory limits. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM**<br>The licensee has complied with the sampling, analytical and reporting requirements for the radiological environmental monitoring program, the environmental sampling equipment was being well maintained, and the monitoring program was effectively implemented. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **SHIPPING OF RADIOACTIVE MATERIALS**<br>The licensee has effectively implemented a program for shipping radioactive materials in accordance with NRC and Department of Transportation regulations. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **TRITIUM PRODUCING BURNABLE ABSORBER ASSEMBLY SHIPMENT**<br>The licensee properly monitored and controlled personnel radiation exposure and radiologically controlled areas during the preparation of two tritium producing burnable absorber assemblies (TPBAAs) for shipment. The licensee handled the TPBAAs and prepared the TPBAA cask for shipment in accordance with approved procedures. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **SECURITY COMPENSATORY MEASURES**<br>The licensee was in compliance concerning implementation of compensatory measures that were provided to effectively compensate for loss of security-related equipment. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2A<br>Ter: | **SECURITY ACTIVITIES**<br>Security personnel followed requirements for access control, and problems were not identified with barriers and zones. |
| **Dockets Discussed:**<br>05000390 WATTS BAR 1 | | | | | | |

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 09/25/1999 | 1999008 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **RADIOLOGICAL CONTROLS**<br>Radiological controls were adequate. Radiological areas were properly posted and high radiation areas were labeled and locked. Personnel were attentive and followed requirements. The licensee provided thorough management oversight of chemistry results, and regulatory limits reviewed were met. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec: 3B<br>Ter: | **EMERGENCY PLAN DRILL**<br>The licensee's performance during a radiological emergency plan drill was acceptable. Strategies to combat the simulated accident were well thought-out and the post-drill debrief was open and self-critical. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2A<br>Ter: | **SECURITY ACTIVITIES**<br>Security personnel were attentive, followed requirements for access control, and problems were not identified with barriers and zones. Security personnel followed special requirements for heightened security measures during handling of tritium assemblies. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3B<br>Ter: | **PERSONNEL RADIATION EXPOSURE CONTROL DURING TPBAA SHIPMENT**<br>The licensee properly monitored and controlled personnel radiation exposure during the preparation of two tritium producing burnable absorber assembies (TPBAAs) for shipment. The licensee also properly prepared the TPBAAs for shipment in accordance with NRC and Department of Transportation requirements for transport of radioactive materials. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 08/14/1999 | 1999007 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **RADIOLOGICAL CONTROLS**<br>Radiological controls were adequate. Radiological areas were properly posted and high radiation areas were labeled. Personnel were attentive and followed requirements. The licensee provided thorough management oversight of chemistry results, and regulatory limits reviewed were met. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |
| 07/03/1999 | 1999004 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **RADIOLOGICAL EXPOSURE RECORDS RECONCILIATION**<br>Appropriate and effective corrective actions were being taken to resolve problems in the licensee's radiation exposure records systems identified by the Personnel Exposure Records Reconciliation Project. |
| Dockets Discussed:<br>05000390 WATTS BAR 1 | | | | | | |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 07/03/1999 | 1999004 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **EMERGENCY DRILL**<br>Good teamwork, well developed strategies, and a self-critical debrief were noted during an emergency drill.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 07/03/1999 | 1999004 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2A<br>Ter: | **SECURITY**<br>Security personnel performed acceptably, and no problems were noted with barriers and zones.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 07/03/1999 | 1999004 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **RADIOLOGICAL CONTROLS**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. The licensee provided thorough management oversight of chemistry results and regulatory limits reviewed were met.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/22/1999 | 1999003 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 2A<br>Ter: | **SECURITY ACTIVITIES**<br>Security personnel performed acceptably and barriers and zones were well maintained.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 05/22/1999 | 1999003 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **RADIOLOGICAL CONTROLS**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. The licensee provided good management oversight of chemistry results and regulatory limits were being met.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 04/10/1999 | 1999002 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **SHUTDOWN CHEMISTY**<br>The licensee closely monitored primary coolant chemistry during the shutdown for the Unit 1 Cycle 2 refueling outage. The shutdown chemistry control plan was effective in radiation-field reduction by removing radioactive materials from the internal surfaces of the reactor coolant system components; however, the target activity level for clean-up of the coolant was not achieved.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

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## PLANT ISSUE MATRIX
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Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 04/10/1999 | 1999002 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **SECURITY**<br>Security personnel performed acceptably and special precautions for handling of tritium assemblies were performed in accordance with procedures. |
| 04/10/1999 | 1999002 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 3A<br>Sec: 1C<br>Ter: 3C | **OUTAGE EXPOSURE CONTROLS**<br>The licensee properly monitored and controlled personnel radiation exposure during the Unit 1 Cycle 2 refueling outage and posted area radiological conditions in accordance with 10 CFR Part 20. Personnel entering the radiologically controlled area were adequately briefed on radiological hazards and protective measures. Maximum individual radiation exposures were controlled to levels which were well within the regulatory limits for occupational dose specified in 10 CFR 20.1201(a). The licensee was successful in meeting established as low as reasonably achievable goals, except for fiscal year 1996. The annual collective dose of 3.0 man-rem for calendar year 1998 was a record low for domestic commercial power reactors. |
| 04/10/1999 | 1999002 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **RADIOLOGICAL CONTROLS**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. The outage activities observed were performed well with good emphasis on as low as reasonably achievable (ALARA) and contamination control. Briefings were adequate and technicians showed good awareness of conditions. |
| 02/27/1999 | 1999001 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **Radioactive Effluent Monitoring**<br>An effective program had been implemented for maintaining radioactive effluent monitoring instrumentation in an operable condition and for performing the required surveillances to demonstrate their operability. |
| 02/27/1999 | 1999001 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **Meteorological Monitoring Instrumentation**<br>The surveillance requirements for demonstrating operability of the meteorological monitoring instrumentation were met and the performance with respect to collection of meteorological data improved during the fourth quarter of 1998. |
| 02/27/1999 | 1999001 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 1C<br>Sec: 3A<br>Ter: | **Control Room Emergency Ventilation System**<br>The material condition of the control room emergency ventilation system was well maintained and the surveillances for demonstrating operability of the systems were being performed as required. |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
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| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 02/27/1999 | 1999001 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **Security Performance**<br>Security personnel performed acceptably and barriers and zones were well maintained.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 02/27/1999 | 1999001 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **Radiological Controls**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. Good management oversight of chemistry results was provided, and regulatory requirements were being met.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 02/27/1999 | 1999001 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **Radiological Controls in Fuel Transfer Canal**<br>Radiological controls were well planned and strictly adhered to during entry into the fuel transfer canal for equipment inspection and periodic maintenance. Extra personnel and equipment were staged for personnel safety.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 01/16/1999 | 1998011 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec:<br>Ter: | **Changes to emergency plan and annual audit of Emergency Preparedness program**<br>Changes made to the Emergency Plan were satisfactory, appropriate, and did not decrease the effectiveness of the Plan and the scope of the annual independent audit of the EP program satisfied the requirements in 10 CFR 50.54(t).<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 01/16/1999 | 1998011 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 2A<br>Sec:<br>Ter: | **Emergency response facilities**<br>Emergency response facilities were satisfactorily equipped and maintained in a satisfactory level of operational readiness.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 01/16/1999 | 1998011 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **Security personnel, barriers and zones**<br>Security personnel performed acceptably and barriers and zones were well-maintained.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

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Region II
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| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 01/16/1999 | 1998011 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **Radiological Controls**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. The licensee provided good management oversight of chemistry results, and regulatory limits were being met.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 01/16/1999 | 1998011 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3B<br>Sec:<br>Ter: | **Emergency Preparedness training program**<br>The Emergency Preparedness training program was well-developed, organized, and implemented. Each Emergency Response Organization member's training was up-to-date, and each member had participated in an exercise (drill) during the year. The drill commitments in Section 14 of the licensee's Emergency Plan were met. Corrective actions and items needing improvement identified in drill reports were satisfactorily tracked and resolved.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 12/31/1998 | 1998010-06 | Pri: PLTSUP<br>Sec: | NRC | VIO IV | Pri: 3A<br>Sec:<br>Ter: | **INADEQUATE CONTROL OF A VITAL AREA ACCESS.**<br>A security officer's posture did not meet management expectations and the officer was not able to perform required duties, which was a violation of NRC requirements. The licensee's corrective action was prompt and thorough. The significance of the event was mitigated by the fact that all personnel on site were granted access to the Diesel Generator building<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 12/05/1998 | 1998010 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 1C<br>Sec: 3A<br>Ter: | **SELF-CONTAINED BREATHING APPARATUS WAS WELL MAINTAINED**<br>Respirator and self-contained breathing apparatus equipment was clean and well maintained. Equipment maintenance checks were performed in accordance with procedure by knowledgeable personnel. Records of equipment maintenance were maintained in accordance with procedures. Personnel received regular training in self-contained breathing apparatus use. The inspector confirmed the licensee was addressing the issues identified in NRC Information Notice 98-20<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 12/05/1998 | 1998010 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **SECURITY BARRIERS AND ZONES WERE WELL MAINTAINED**<br>Barriers and zones were well maintained. Security personnel performed acceptably.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |
| 12/05/1998 | 1998010 | Pri: PLTSUP<br>Sec: | NRC | POS | Pri: 3A<br>Sec: 3C<br>Ter: | **RADIOLOGICAL CONTROLS**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. The licensee provided good management oversight of chemistry results and regulatory limits were being met.<br>**Dockets Discussed:**<br>05000390 WATTS BAR 1 |

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

Region II
WATTS BAR

| Date | Source | Functional Area | ID | Type | Template Codes | Item Title<br>Item Description |
|---|---|---|---|---|---|---|
| 10/24/1998 | 1998009 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 1C<br>Sec: 3A<br>Ter: | **RADIOLOGICAL PROTECTION AND CHEMISTY CONTROLS**<br>Radiological controls were adequate. Personnel were attentive and followed requirements. Surveys and postings were properly performed. The licensee provided good management oversight of chemistry results and regulatory limits were being met. |
| 10/24/1998 | 1998009 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 1C<br>Sec: 3B<br>Ter: | **PERFORMANCE DURING EMERGENCY DRILLS**<br>Licensee performance during two emergency drills demonstrated good development of priorities and communications and compliance with emergency procedures. The Technical Support Center team strategy was somewhat slow to develop. Critiques were thorough and self-critical and identified opportunities for improvement for both drill participants and controllers |
| 10/24/1998 | 1998009 | Pri: PLTSUP<br>Sec:<br>Dockets Discussed:<br>05000390 WATTS BAR 1 | NRC | POS | Pri: 3A<br>Sec:<br>Ter: | **CONDUCT OF SECURITY AND SAFEGUARDS ACTIVITIES**<br>The inspectors routinely observed security activities for conformance to requirements which included protected area barriers, isolation zones, personnel access, and package inspections. Security personnel performed acceptably and barriers and zones were well maintained |

# United States Nuclear Regulatory Commission
## PLANT ISSUE MATRIX
By Primary Functional Area

## Legend

**Type Codes:**

| | |
|---|---|
| BU | Bulletin |
| CDR | Construction |
| DEV | Deviation |
| EEI | Escalated Enforcement Item |
| IFI | Inspector follow-up item |
| LER | Licensee Event Report |
| LIC | Licensing Issue |
| MISC | Miscellaneous |
| MV | Minor Violation |
| NCV | NonCited Violation |
| NEG | Negative |
| NOED | Notice of Enforcement Discretion |
| NON | Notice of Non-Conformance |
| OTHR | Other |
| P21 | Part 21 |
| POS | Positive |
| SGI | Safeguard Event Report |
| STR | Strength |
| URI | Unresolved item |
| VIO | Violation |
| WK | Weakness |

**Template Codes:**

| | |
|---|---|
| 1A | Normal Operations |
| 1B | Operations During Transients |
| 1C | Programs and Processes |
| 2A | Equipment Condition |
| 2B | Programs and Processes |
| 3A | Work Performance |
| 3B | KSA |
| 3C | Work Environment |
| 4A | Design |
| 4B | Engineering Support |
| 4C | Programs and Processes |
| 5A | Identification |
| 5B | Analysis |
| 5C | Resolution |

**ID Codes:**

| | |
|---|---|
| NRC | NRC |
| Self | Self-Revealed |
| Licensee | Licensee |

**Functional Areas:**

| | |
|---|---|
| OPS | Operations |
| MAINT | Maintenance |
| ENG | Engineering |
| PLTSUP | Plant Support |
| OTHER | Other |
| MISC | Miscellaneous |

EEIs are apparent violations of NRC Requirements that are being considered for escalated enforcement action in accordance with the "General Statement of Policy and Procedure for NRC Enforcement Action" (Enforcement Policy), NUREG-1600. However, the NRC has not reached its final enforcement decision on the issues identified by the EEIs and the PIM entries may be modified when the final decisions are made.

URIs are unresolved items about which more information is required to determine whether the issue in question is an acceptable item, a deviation, a nonconformance, or a violation. A URI may also be a potential violation that is not likely to be considered for escalated enforcement action. However, the NRC has not reached its final conclusions on the issues, and the PIM entries may be modified when the final conclusions are made.

Item Type (Compliance,Followup,Other), From 10/01/1998 To 04/01/2000

## WATTS BAR NUCLEAR PLANT

## INSPECTION PLAN

| INSPECTION PROCEDURE | TITLE | NO. OF INSPECTORS | INSPECTION DATES | TYPE OF INSPECTION |
|---|---|---|---|---|
| 82301 and 82302 | Emergency Preparedness Biennial Exercise | 3 | 11/99 | Core |
| 81700 | Security | 1 | 11/99<br>03/00 | Core |
| 37550 | Engineering Inspection | 4 | 11/99 | Core |
| 84750 and 86750 | Radioactive Waste Treatment, and Effluent and Environmental Monitoring<br><br>Solid Radioactive Waste Management and Transportation of Radioactive Materials | 1 | 01/00 | Core |
| | | | | |

Enclosure 2