October 15, 1999

South Carolina Electric & Gas Company
ATTN: Mr. Gary J. Taylor
Vice President, Nuclear Operations
Virgil C. Summer Nuclear Station
P. O. Box 88
Jenkinsville, SC 29065

SUBJECT: MID-CYCLE PLANT PERFORMANCE REVIEW (PPR) - SUMMER

Dear Mr. Taylor:

On September 30, 1999, the NRC staff completed the mid-cycle PPR of the Virgil C. Summer Nuclear Station. 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 and the safety issue inspection addressed in Temporary Instruction 2515/142, "Draindown During Shutdown and Common-Mode Failure (Generic Letter 98-02)," at your facility over the next 5 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 South Carolina Electric and Gas Company from October 1, 1998, to September 30, 1999. As noted above, greater emphasis was placed on those issues identified in the past 6 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 inspection plan through March 2000 to coincide with the scheduled implementation of the

IE01

revised reactor oversight process in April 2000. The rationale or basis for each inspection outside the core inspection program is discussed above so that you are aware of the reason for emphasis in these program areas. 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 404-562-4550 with any questions you may have.

Sincerely,

Orig signed by Robert C. Haag

Robert C. Haag, Chief
Reactor Projects Branch 5
Division of Reactor Projects

Docket No. 50-395
License No. NPF-12

Enclosures: 1. Plant Issues Matrix
2. Inspection Plan

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OFFICE	RII:DRP	RII:DRS	RII:DRS	RII:DRS	RII:DRS		
SIGNATURE							
NAME	LGarner	ABelisle	KLandis	KBarr	CChristensen		
DATE	10/ /99	10/13/99	10/13/99	10/13/99	10/13/99	10/ /99	10/ /99
COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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*FOR PREVIOUS CONCURRENCE SEE ATTACHED

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NAME	LGarner	ABelisle *	KLandis *	KBarr*	CChristensen *		
DATE	10/15/99	10/ /99	10/ /99	10/ /99	10/ /99	10/ /99	10/ /99
COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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

Region II
SUMMER

Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
07/31/1999	1999005	**Pri:** OPS	NRC	POS	**Pri:** 5A	**Nuclear Instrumentation N-44 Drift**
		Sec:			**Sec:** 4B	The licensee's actions in response to N-44 power range detector indication exhibiting a current decrease were appropriate. Operations personnel displayed a good questioning attitude by detecting this condition prior to an alarm occurring. The technical assessments, engineering 10 CFR 50.59 screenings, compensatory actions taken and operability assessments were found to be consistent with the guidance of Generic Letter 91-18, Revision 1, for a degraded but operable component
Dockets Discussed: 05000395 SUMMER					**Ter:** 2A	
07/31/1999	1999005	**Pri:** OPS	NRC	POS	**Pri:** 1B	**Operator Response to Unexpected Control Rod Motion**
		Sec: MAINT			**Sec:** 3A	Prompt operator response to unexpected control rod motion during performance of a calibration minimized any adverse effects on the plant. The rod motion was caused by the loss of the reference temperature signal to the rod control system.
Dockets Discussed: 05000395 SUMMER					**Ter:** 4C	
06/19/1999	1999004	**Pri:** OPS	NRC	NEG	**Pri:** 1B	**Manual Reactor Trip Due to Main Turbine High Vibration**
		Sec:			**Sec:** 3B	Although, operator performance following a manual reactor trip due to high main turbine vibration was appropriate, the operators responded slowly to decreasing reactor coolant average temperature (Tavg) and delayed the reduction of emergency feedwater flow following the trip. Reactor coolant system temperature decreased approximately eight degrees Fahrenheit below the normal no-load Tavg value. Primary and secondary systems responded as designed to the reactor trip
Dockets Discussed: 05000395 SUMMER					**Ter:** 2A	
06/19/1999	1999004	**Pri:** OPS	NRC	POS	**Pri:** 1A	**Startup Observations**
		Sec:			**Sec:** 3A	The reactor startups following the refueling outage and plant trips were performed safely. Reactivity additions were carefully controlled and monitored by operations and reactor engineering personnel. The operators demonstrated good command and control, proper communications and performed the startups in accordance with approved procedures.
Dockets Discussed: 05000395 SUMMER					**Ter:**	
06/19/1999	1999004	**Pri:** OPS	NRC	POS	**Pri:** 1A	**Observations of Danger Tagouts**
		Sec:			**Sec:** 3A	The clearance of danger tagouts for a motor driven emergency feedwater pump and the diesel driven fire pump was performed in accordance with procedure requirements. Operators used proper communication, observed safety precautions, and properly conducted independent verification.
Dockets Discussed: 05000395 SUMMER					**Ter:**	
06/19/1999	1999004	**Pri:** OPS	NRC	POS	**Pri:** 1B	**Automatic Reactor Trip Due to N-43 Spike**
		Sec:			**Sec:** 2A	Operator response to an automatic reactor trip was effective in stabilizing the plant and was in accordance with emergency operating procedures. The trip was caused by caused by spiking on power range instrument N-43 during N-42 power range instrument calibration. Safety-related components functioned as expected. Post trip reviews and troubleshooting effectively isolated the problem to a defective nuclear instrument current meter and appropriate corrective actions were taken.
Dockets Discussed: 05000395 SUMMER					**Ter:** 5B	

Enclosure 1

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

Region II
SUMMER

Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
06/19/1999	1999004	**Pri:** OPS	NRC	POS	**Pri:** 3B	**Requalification Annual Operating and Biennial Written Examinations**
		Sec:			**Sec:**	The content of the annual operating tests and biennial written examinations was satisfactory. The written examinations and simulator scenarios provided very good evaluation tools to measure operator knowledge, skills and abilities. This portion of the licensed operator requalification program met the requirements of 10 CFR 55.59, "Requalification."
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
06/19/1999	1999004	**Pri:** OPS	NRC	POS	**Pri:** 5A	**Plant Safety Review Committee and Management Review Board Meetings**
		Sec:			**Sec:** 3A	Observed Plant Safety Review Committee and Management Review Board meetings were comprehensive, properly focused on safety and probing with relevant issues being adequately reviewed. The inspectors noted action items were issued to ensure proper followup and resolution on issues of concern.
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
05/08/1999	1999003	**Pri:** OPS	NRC	NEG	**Pri:** 1A	**Power Reduction and Plant Shutdown/Draindown**
		Sec:			**Sec:** 3B	A negative observation was noted for control board operators not being aware of the cause for several illuminated control room annunciators. An example was the "Source Range Hi Flux at Shutdown Blocked" annunciator being illuminated during fuel reload with the operator being unaware of why it was acceptable to block this alarm function.
Dockets Discussed:					**Ter:** 3A	
05000395 SUMMER						
05/08/1999	1999003	**Pri:** OPS	NRC	POS	**Pri:** 1A	**Core Offload and Reload**
		Sec:			**Sec:** 3A	The inspectors concluded that core offload, reload and core verification were performed in accordance with established procedures. Fuel handling activities were well controlled.
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
05/08/1999	1999003	**Pri:** OPS	NRC	POS	**Pri:** 1A	**Power Reduction and Plant Shutdown/Draindown**
		Sec:			**Sec:** 3A	The power reduction, plant cooldown and shutdown operations in preparation for refueling were conducted safely and were well controlled with good communications established between personnel. Operations management appropriately stressed the importance of monitoring and understanding the relationship between reactor vessel level indication and inventory balances to ensure proper reactor coolant system inventory control during shutdown conditions.
Dockets Discussed:					**Ter:** 3C	
05000395 SUMMER						
05/08/1999	1999003-01	**Pri:** OPS	NRC	NCV	**Pri:** 1A	**Failure to Remove Loose Debris from the Reactor Building**
		Sec:			**Sec:** 2A	A non-cited violation was identified for failure to adequately perform a Technical Specification required visual inspection for loose debris in the reactor building. Following completion of the licensee's reactor building closeout inspection, the inspectors found loose debris, including a rubber shoe, a plastic bag, and a cloth booty, in the reactor building. Subsequent evaluation determined that the debris would have had a negligible impact on sump performance.
Dockets Discussed:					**Ter:** 3A	
05000395 SUMMER						

United States Nuclear Regulatory Commission
PLANT ISSUE MATRIX
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Region II
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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
03/27/1999	1999002	**Pri:** OPS **Sec:**	NRC	NEG	**Pri:** 5B **Sec:** 1B **Ter:**	**Management Review Board Meeting** Although a Management Review Board (MRB) held to review the plant transient of January 3, 1999, provided valuable insights into the contributing factors and circumstances surrounding the event, both the inspectors and the MRB recognized the need to better understand the circumstances surrounding and contributing factors to this event in a more timely manner.
Dockets Discussed: 05000395 SUMMER						
03/27/1999	1999002	**Pri:** OPS **Sec:**	NRC	POS	**Pri:** 1A **Sec:** 2A **Ter:** 2B	**Detailed Walkdown of Emergency Diesel Generators** Based on a detailed walkdown the Emergency Diesel Generators (EDGs) were found to be properly aligned and in a standby condition per licensee procedures. Technical specification requirements for fuel oil and surveillance requirements were being met. Several small EDG lube oil leaks were observed. The maintenance rule program properly monitored EDG performance.
Dockets Discussed: 05000395 SUMMER						
03/27/1999	1999002	**Pri:** OPS **Sec:**	NRC	POS	**Pri:** 3B **Sec:** 3A **Ter:**	**Licensed Operator Simulator Requalification** The licensed operator simulator requalification examination scenarios were challenging and operators' performance met test objectives. Examination critiques were thorough and provided a comprehensive assessment of individual and crew performance.
Dockets Discussed: 05000395 SUMMER						
02/13/1999	1999001	**Pri:** OPS **Sec:**	NRC	POS	**Pri:** 1B **Sec:** 2A **Ter:**	**Operator Response to Moisture Separator Pressure Switch Failure** Operators promptly responded to a moisture separator pressure switch failure by reducing load. The operators followed the appropriate annunciator response and operating procedures during the transient and prevented a potential loss of feedwater and reactor trip.
Dockets Discussed: 05000395 SUMMER						
01/02/1999	1998010	**Pri:** OPS **Sec:**	NRC	POS	**Pri:** 1A **Sec:** 3A **Ter:**	**Observation of Control Room Activities** Observed control room activities were conducted satisfactorily and in accordance with approved procedures and Technical Specifications. The inspectors noted consistent use of annunciator response procedures, proper communication practices, and operator attentiveness. Access control kept the control room free from congestion and unnecessary distractions.
Dockets Discussed: 05000395 SUMMER						
11/21/1998	1998009	**Pri:** OPS **Sec:**	NRC	POS	**Pri:** 2A **Sec:** 3B **Ter:** 2B	**Cold Weather Protection Progrom Review** A review of the licensee's cold weather protection program revealed no significant discrepancies. The system engineers interviewed were knowledgeable and the heat trace system performance was being properly monitored within the licensee's Maintenance Rule program.
Dockets Discussed: 05000395 SUMMER						

United States Nuclear Regulatory Commission
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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
11/21/1998	1998009-01	**Pri:** OPS	NRC	VIO IV	**Pri:** 1A	**Failure to Follow Procedure for Documenting LCO Entries, Two Examples**
		Sec:			**Sec:** 2B	A violation was identified for failure to document entry into Technical Specification Action statements. Operations personnel failed to recognize preventative maintenance activities placed the ECCS Accumulators and ECCS Subsystems outside the conditions established by surveillance requirements. This condition resulted in the failure to meet the Technical Specification Limiting Conditions for Operation and, as a result, operations personnel failed to document entry into TS Action statements in the Station Log Book.
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
11/21/1998	1998009	**Pri:** OPS	NRC	POS	**Pri:** 2A	**Inspection of the Reactor Building Spray and Residual Heat Removal Systems**
		Sec: MAINT			**Sec:**	Detailed inspection of the Reactor Building Spray and Residual Heat Removal Systems determined that the systems were in adequate condition to perform as designed. Valve alignments were proper and component labeling was adequate.
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
10/10/1998	1998008	**Pri:** OPS	NRC	POS	**Pri:** 3A	**Operator Response to Leaking PORV**
		Sec:			**Sec:** 1A	Operations personnel took timely and appropriate actions as required by Technical Specification 3.4.4 "Relief Valves," in response to a leaking power operated relief valve
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
10/10/1998	1998008	**Pri:** OPS	NRC	POS	**Pri:** 5A	**Nuclear Safety Review Committee (NSRC) Meeting observations**
		Sec:			**Sec:**	The Nuclear Safety Review Committee (NSRC) meeting was in compliance with TS 6.5.2 requirements for meeting quorum, NSRC Chairman participation, and meeting agenda. The protions of the meeting observed by the inspectors were technically and performance oriented
Dockets Discussed:					**Ter:**	
05000395 SUMMER						
07/31/1999	1999005	**Pri:** MAINT	NRC	POS	**Pri:** 2B	**Observation of Work Activities**
		Sec:			**Sec:** 3A	Routine maintenance and surveillance activities were satisfactorily performed, i.e., conducted in an appropriate and professional manner in accordance with established procedures. Good communications and supervisor oversight were noted by the inspectors during instrumentation and control surveillance activities.
Dockets Discussed:					**Ter:** 3C	
05000395 SUMMER						
07/31/1999	1999005-01	**Pri:** MAINT	Self	NCV	**Pri:** 4C	**Failure to Establish an Adequate Procedure for Calibration of FW Flow Control Valve**
		Sec:			**Sec:** 2B	A Non-Cited Violation was identified for failure to establish an adequate procedure for the performance of rack calibration of main feedwater to steam generator C flow control valve, IFV00498. The removal of a control system relay card during the calibration resulted in loss of the reference temperature signal to the rod control system and consequent automatic inward motion.
Dockets Discussed:					**Ter:**	
05000395 SUMMER						

United States Nuclear Regulatory Commission
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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
06/19/1999	1999004	Pri: MAINT	NRC	POS	Pri: 2B	**Observation of Work Activities**
		Sec:			Sec: 3A	Based on review and observation of eleven surveillance test and maintenance packages, routine maintenance and surveillance activities were satisfactorily performed. Activities were conducted in accordance with written procedure instructions and the procedures provided sufficient detail and guidance. Technicians demonstrated that they were experienced and knowledgeable.
Dockets Discussed:					Ter:	
05000395 SUMMER						
06/19/1999	1999004-01	Pri: MAINT	Licensee	NCV	Pri: 2B	**Missed Surveillance - Turbine Stop Valve Closure Trip Actuating Device Operational Test**
		Sec:			Sec: 1A	A non-cited violation was identified for the failure to test the Turbine Trip Actuating Device prior to reactor startup in accordance with Technical Specification Table 4.3-1, Item 17. The surveillance test was performed following the reactor startup.
Dockets Discussed:					Ter: 4C	
05000395 SUMMER						
05/08/1999	1999003	Pri: MAINT	NRC	NEG	Pri: 2B	**Surveillance Observation**
		Sec:			Sec: 3A	During preparations for the train A integrated safeguards test, the control room operating crew failed to establish an initial test condition for volume control tank (VCT) level. After the inspectors identified this discrepancy, operators properly established VCT level prior to the start of the test.
Dockets Discussed:					Ter: 1A	
05000395 SUMMER						
05/08/1999	1999003	Pri: MAINT	NRC	POS	Pri: 2B	**Observation of Work Activities**
		Sec:			Sec: 3A	The inspectors observed good maintenance practices during refueling outage RF-11. Preventative maintenance and maintenance activities were appropriate and properly implemented in accordance with instructions provided and established work documents. The inspectors concluded that outage maintenance activities were well performed.
Dockets Discussed:					Ter:	
05000395 SUMMER						
05/08/1999	1999003	Pri: MAINT	NRC	POS	Pri: 2B	**Surveillance Observation**
		Sec:			Sec: 3A	The observed surveillance activities were successfully completed by knowledgeable personnel. When problems were encountered appropriate corrective actions were implemented and adequate retests were performed. Procedures provided sufficient detail and guidance for the intended surveillance activities. The licensee established good communication and coordination between departments prior to commencement of surveillance tests.
Dockets Discussed:					Ter:	
05000395 SUMMER						
05/08/1999	1999003	Pri: MAINT	NRC	POS	Pri: 2B	**Inservice Inspection (ISI) - Observation of Work Activities**
		Sec:			Sec: 3A	Inservice examination and test activities were performed, documented and evaluated in accordance with approved procedures by certified, skilled, and knowledgeable examiners.
Dockets Discussed:					Ter: 3B	
05000395 SUMMER						

United States Nuclear Regulatory Commission
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Region II
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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
05/08/1999	1999003	**Pri:** MAINT	NRC	POS	**Pri:** 2B	**Review of Significant Design Modifications / Maintenance Work Requests (MWRs)**
		Sec:			**Sec:** 4C	Selected design modifications and maintenance work requests on the A emergency diesel generator, the service water system, the A reactor coolant pump seal, the station batteries, and a safety injection valve were successfully implemented and satisfactorily tested. Documents generated to support plant changes were thorough and provided sufficient detail to accomplish the design changes.
Dockets Discussed: 05000395 SUMMER					**Ter:**	
05/08/1999	1999003	**Pri:** MAINT	NRC	POS	**Pri:** 5B	**7.2 kV Breaker Troubleshooting**
		Sec:			**Sec:** 5C	The licensee's troubleshooting plan for failures of General Electric 7.2 kV Magne-Blast breakers to close was effective. Through the use of high speed video cameras the licensee was able to identify the root cause. Corrective actions necessary to prevent recurrence were completed. Additionally, the licensee made an 10 CFR 21 notification for reporting a defect with substantial safety hazards that involved a common mode failure.
Dockets Discussed: 05000395 SUMMER					**Ter:** 2A	
05/08/1999	1999003-02	**Pri:** MAINT	Licensee	NCV	**Pri:** 2B	**Missed Technical Specification Surveillance Requirement to Vent the Residual Heat Removal Pump Casings**
		Sec:			**Sec:** 4C	A non-cited violation was identified for failure to adequately vent the residual heat removal pump casings as required by Technical Specifications.
Dockets Discussed: 05000395 SUMMER					**Ter:**	
05/08/1999	1999003-03	**Pri:** MAINT	Licensee	NCV	**Pri:** 2B	**Missed Surveillance Test for Electical Equipment Protective Devices**
		Sec:			**Sec:** 4C	A non-cited violation was identified for the failure to functionally test portions of breaker control circuits as required by Technical Specifications.
Dockets Discussed: 05000395 SUMMER					**Ter:**	
05/08/1999	1999003-04	**Pri:** MAINT	Licensee	NCV	**Pri:** 2B	**Missed Surveillance on Manipulator Crane Load Cell**
		Sec:			**Sec:** 3A	A non-cited violation was identified for failure to perform a load test on a refueling manipulator crane load cell prior to use as required by Technical Specifications.
Dockets Discussed: 05000395 SUMMER					**Ter:**	
03/27/1999	1999002	**Pri:** MAINT	NRC	NEG	**Pri:** 2A	**Meteorological Tower Availability**
		Sec:			**Sec:** 2B	Corrective maintenance and corrective actions have been ineffective in preventing an increased unavailability time for the meteorological tower during the last part of 1998 and 1999. The licensee had not established a system to actively track availability time to ensure that the Final Safety Analysis Report annual target of 90% data recovery is achieved.
Dockets Discussed: 05000395 SUMMER					**Ter:**	

United States Nuclear Regulatory Commission
PLANT ISSUE MATRIX
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Region II
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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
03/27/1999	1999002	Pri: MAINT Sec:	NRC	POS	Pri: 2A Sec: 2B Ter:	**Review of Maintenance and Test Packages for Emergency Core Cooling System** Nine completed surveillance test and preventive maintenance packages demonstrated acceptable test results for emergency core cooling system relief valves and check valves.
Dockets Discussed: 05000395 SUMMER						
03/27/1999	1999002	Pri: MAINT Sec:	NRC	POS	Pri: 2A Sec: 2B Ter:	**Maintenance/Material Condition of Reactor Coolant System (RCS) Pressure Isolation Valves** Review of leakage testing data indicated acceptable material condition for Reactor Coolant System (RCS) isolation boundaries. No examples of inadequate maintenance were identified during this review. No problems were identified during the review of equipment history which would indicate an adverse trend or degradation of the material condition of RCS pressure isolation valves.
Dockets Discussed: 05000395 SUMMER						
03/27/1999	1999002	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter:	**Emergency Diesel Generator Surveillance Observations** The A emergency diesel generator operability, slave relay and support system leak surveillance tests were performed in accordance with established procedures and demonstrated operability of the equipment in accordance with the Technical Specification surveillance requirements. Personnel conducting the tests demonstrated a good level of knowledge. The pre-job briefing was thorough.
Dockets Discussed: 05000395 SUMMER						
02/13/1999	1999001	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: Ter:	**Determination of Moderator Temperature Coefficient** Based on a review of test data the inspectors verified that the moderator temperature coefficient met the limits specified in TS 4.1.1.3.b and the Core Operating Limits Report. The licensee performed the test in accordance with procedure requirements.
Dockets Discussed: 05000395 SUMMER						
02/13/1999	1999001	Pri: MAINT Sec:	NRC	POS	Pri: 5A Sec: 3A Ter:	**Good Questioning Attitude by Electrical Maintenance Technician** A particularly noteworthy example of a good questioning attitude by an electrical maintenance technician was noted. The technician questioned the validity of existing electrical schematics versus the installed plant wiring configuration of a component cooling water pump hand switch.
Dockets Discussed: 05000395 SUMMER						
01/02/1999	1998010	Pri: MAINT Sec:	NRC	POS	Pri: 2B Sec: 3A Ter:	**Maintenance Observation of the N-44 High Voltage Power Supply and Potentiometer** The maintenance plan for replacement of the N-44 Power Range Drawer B High Voltage Power Supply and replacement of the associated drawer gain potentiometer was detailed and well organized. Work performed under these activities, including post maintenance testing was professional and thorough. All post maintenance testing was completed in accordance with the procedures and all acceptance criteria were met.
Dockets Discussed: 05000395 SUMMER						

Item Type (Compliance,Followup,Other), From 10/01/1998 To 09/30/1999

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

Region II
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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
01/02/1999	1998010	Pri: MAINT	NRC	POS	Pri: 3A	**Maintenance Observations**
		Sec:			Sec: 2B	Component cooling water pump and system maintenance, direct current ground alarm troubleshooting, and surveillance testing of the reactor vessel level indicator system was professional and thorough. All work was performed with the work package present and actively referenced. Technicians were experienced and knowledgeable of their assigned tasks.
Dockets Discussed: 05000395 SUMMER					Ter:	
11/21/1998	1998009	Pri: MAINT	NRC	POS	Pri: 2B	**Generic Letter 96-05 MOV Program**
		Sec:			Sec:	The licensee had established and was implementing a program to provide continued assurance that motor-operated valves (MOVs) within the scope of Generic Letter (GL) 96-05, "Periodic Verification of Design-Basis Capability of Safety-Related Motor-Operated Valves," were capable of performing their design-basis safety functions.
Dockets Discussed: 05000395 SUMMER					Ter:	
11/21/1998	1998009	Pri: MAINT	NRC	POS	Pri: 2B	**Performance of Maintenance and Testing**
		Sec:			Sec: 3A	In general, performance of maintenance and surveillance testing was professional and thorough. All work was performed with the work package present and actively referenced. Technicians were experienced and knowledgeable of their assigned tasks.
Dockets Discussed: 05000395 SUMMER					Ter: 3B	
11/21/1998	1998009	Pri: MAINT	NRC	POS	Pri: 5B	**Troubleshooting Activities for MOV FCV-602A.**
		Sec:			Sec: 5C	The inspectors observed technically sound troubleshooting activities to determine the cause for tripping of the motor operated valve FCV-602A breaker during surveillance testing. The root cause was identified and procedure revisions were implemented to prevent recurrence.
Dockets Discussed: 05000395 SUMMER					Ter: 2A	
10/10/1998	1998008	Pri: MAINT	Licensee	NEG	Pri: 2B	**Failure to Properly Test ESF Activated Carbon**
		Sec:			Sec:	Prior to February 10, 1996, the licensee failed to perform surveillance testing of engineered safety feature activated carbon in verbatim compliance with their TS requirements. This deficiency was licensee identified and promptly corrected. Accordingly, the NRC is exercising discretion in accordance with Section VI.B.6 of the Enforcment Policy and refraining from issuing a citation for this Severtiy Level IV violation
Dockets Discussed: 05000395 SUMMER					Ter:	
10/10/1998	1998008	Pri: MAINT	NRC	POS	Pri: 2B	**Observed Engineered Safeguards Transformer Differential Relay Testing**
		Sec:			Sec: 3B	Observed engineered safeguards transformer differential relay testing was satisfactory and performed in accordance with testing requirements. The personnel involved were knowledgeable of their tasks
Dockets Discussed: 05000395 SUMMER					Ter:	

Item Type (Compliance,Followup,Other), From 10/01/1998 To 09/30/1999

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

Region II
SUMMER

Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
10/10/1998	1998008-01	Pri: MAINT	NRC	NCV	Pri: 2B	**Inadequate PM of the Turbine Driven EFW Pump Instrumentation**
		Sec:			Sec: 4B	Preventative maintenance activities were not established for the turbine driven emergency feedwater (TDEFW) pump current-to-pressure (I/P) converter which resulted in an unanalyzed failure mode of the turbine control system. The TDEFW pump failed to reach full speed during surviellance testing due to an I/P converter failure.
Dockets Discussed:					Ter:	
05000395 SUMMER						
07/31/1999	1999005	Pri: ENG	NRC	NEG	Pri: 2B	**Review of Pressurizer Heater Breaker Troubleshooting Activities**
		Sec:			Sec: 4B	Although the troubleshooting plan for unexpected tripping of the pressurizer group 2 heater breaker was appropriate and reasonable, the long-term troubleshooting instructions did not ensure that three multimeters installed for troubleshooting would remain continously operational. This deficiency could have resulted in important troubleshooting information being missed.
Dockets Discussed:					Ter:	
05000395 SUMMER						
06/19/1999	1999004	Pri: ENG	NRC	POS	Pri: 4B	**Control of Core Physics Constants**
		Sec:			Sec:	The inspectors verified reactor engineering was entering and maintaining the proper core physics constants in the integrated plant computer system. These constants are used for low power physics testing to verify core performance during startup following refueling.
Dockets Discussed:					Ter:	
05000395 SUMMER						
05/08/1999	1999003	Pri: ENG	NRC	POS	Pri: 5B	**Engineering Evaluation of Fuel Assembly Top Nozzle Defect**
		Sec:			Sec: 5C	Based on the results of a Westinghouse safety assessment and the licensee's replacement of 28 fuel assembly top nozzles prior to core reload, the inspectors concluded that the licensee appropriately evaluated and resolved issues associated with fuel assembly top nozzle hold down spring screw failures. The licensee's conclusions were reasonable and there are no safety concerns that would preclude the current Cycle 12 fuel load from meeting the reload safety analysis.
Dockets Discussed:					Ter: 4B	
05000395 SUMMER						
05/08/1999	1999003-05	Pri: ENG	Licensee	NCV	Pri: 4A	**Failure to Comply with 10 CFR 50 Appendix B Criterion III**
		Sec:			Sec:	A non-cited violation was identified for failure to correctly translate design requirements into specifications, drawings or procedures. Ten reactor building components, which were required to operate after an accident and which could be submerged during an accident, were not designed or evaluated for submergence.
Dockets Discussed:					Ter:	
05000395 SUMMER						
03/27/1999	1999002	Pri: ENG	NRC	POS	Pri: 2A	**Analysis and Resolution of Battery Degradation**
		Sec:			Sec: 4B	Both trains of safety-related batteries have exhibited the early stages of post seal leakage. The licensee made a conservative decision to replace these batteries in the 1999 refuel outage. One non-safety-related battery is approaching end of useful life and will also be replaced.
Dockets Discussed:					Ter:	
05000395 SUMMER						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
03/27/1999	1999002	Pri: ENG Sec:	NRC	POS	Pri: 2B Sec: 5C Ter: 2A	**Review of Circuit Breaker Failure** The licensee's program for refurbishment of 7.2 kV circuit breakers is being aggressively implemented, and should help preclude failures similar to the circulating water pump breaker failure.
Dockets Discussed: 05000395 SUMMER						
03/27/1999	1999002	Pri: ENG Sec:	NRC	POS	Pri: 4A Sec: 4C Ter:	**Review of Design Basis Document (DBD) Improvement Project Plan** The licensee has initiated a design basis document (DBD) improvement project to be completed over a five year period. The licensee plans to prioritize reworking/replacing/initiating calculations, technical reports, etc., using maintenance rule program risk rankings. The emergency feedwater and component cooling water system DBDs were "improved" as trial examples to help define the detailed plan and illustrate the need for the project.
Dockets Discussed: 05000395 SUMMER						
01/02/1999	1998010	Pri: ENG Sec:	NRC	POS	Pri: 4B Sec: 3A Ter: 3B	**Feedwater Flow Rate and Temperature Normalization Program Testing** Testing under the feedwater flow rate and temperature normalization program was performed satisfactorily and in accordance with approved procedures. The system engineer who conducted the surveillance tests and maintained the records demonstrated a good level of knowledge.
Dockets Discussed: 05000395 SUMMER						
11/21/1998	1998009	Pri: ENG Sec:	NRC	NEG	Pri: 4B Sec: 3B Ter:	**B Main Steam Power Operated Relief Valve Testing** The B main steam power operated relief valve was determined to be able to perform its design function. Licensee miscommunication resulted in an unnecessary retest of the B main steam power operated relief valve.
Dockets Discussed: 05000395 SUMMER						
10/10/1998	1998008	Pri: ENG Sec:	Licensee	NEG	Pri: 4B Sec: Ter:	**Problem with the Use of the Engineering Technical Work Record (TWR) Process** The use of the engineering technical work record (TWR) process to resolve a meter calibration deficiency was inappropriate in that the verification review process was circumvented. The licensee identified the failure to provide a verification review and initiated a nonconformance notice (NCN) which allowed for a second party verification of the meter calibration in the NCN disposition.
Dockets Discussed: 05000395 SUMMER						
07/31/1999	1999005	Pri: PLTSUP Sec:	NRC	NEG	Pri: 1C Sec: 1B Ter:	**Evaluation of Exercises for Power Reactors** Although command and control in each of the emergency response facilities was effective, there was room for improvement in performing briefings and maintaining the plant status priority board in the Operations Support Center
Dockets Discussed: 05000395 SUMMER						

Item Type (Compliance,Followup,Other), From 10/01/1998 To 09/30/1999

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
07/31/1999	1999005	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** **Ter:**	**Review of Exercise Objectives and Scenarios for Power Reactors** The licensee's submittals of the scope and objectives, as well as, the scenario package were timely and appropriate for the biennial emergency preparedness exercise. The exercise scenario was sufficiently detailed and challenging.
Dockets Discussed: 05000395 SUMMER						
07/31/1999	1999005	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 1B **Ter:**	**Evaluation of Exercises for Power Reactors** The licensee's overall performance in response to a simulated emergency was satisfactory. The inspectors concluded that the exercise was a successful demonstration of the licensee's emergency response capabilities. The Alert, Site Area Emergency, and General Emergency declarations were timely and correct, and all offsite notifications were completed within 15 minutes.
Dockets Discussed: 05000395 SUMMER						
07/31/1999	1999005	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 3B **Ter:**	**Review of Fire Brigade Drill and Qualifications** A fire brigade drill was performed satisfactorily and met established criteria. The critique conducted was thorough. Areas needing improvement were captured in the drill critique and will be incorporated in quarterly training for fire brigade team members. No concerns were identified with the protected area fire brigade team member qualifications.
Dockets Discussed: 05000395 SUMMER						
07/31/1999	1999005	**Pri:** PLTSUP **Sec:** ENG	NRC	NEG	**Pri:** 1C **Sec:** 4B **Ter:** 3A	**Evaluation of Exercises for Power Reactors** The Technical Support Engineering (TSE) team recommendations were not based on thorough engineering evaluations in its support of several off-normal actions taken by the Technical Support Center (TSC). In addition, poor communications were noted between the TSC main room personnel and TSE team members concerning the status of plant and equipment conditions.
Dockets Discussed: 05000395 SUMMER						
06/19/1999	1999004	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** **Ter:**	**Implementation of the Emergency Preparedness Program** The emergency preparedness program was being maintained in a state of operational readiness. Changes made to the Emergency Preparedness program since the last inspection met NRC requirements and did not adversely affect the overall state of emergency preparedness.
Dockets Discussed: 05000395 SUMMER						
06/19/1999	1999004	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 3B **Ter:**	**New Handgun Training and Qualification** Security force handgun training and testing was effective, well controlled, with appropriate emphasis on safety and conducted in accordance with the Security Plan Procedures.
Dockets Discussed: 05000395 SUMMER						

Item Type (Compliance,Followup,Other), From 10/01/1998 To 09/30/1999

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
05/08/1999	1999003	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	**Tour of Radiological Protected Areas** Radiological conditions in radioactive material storage areas, health physics facilities, and waste storage buildings were appropriate, areas were properly posted and material was properly labeled. Personnel dosimetry devices were appropriately worn. Radiation worker doses were being maintained well below regulatory limits and the licensee was maintaining personnel exposure as low as is reasonably achievable. **Dockets Discussed:** 05000395 SUMMER
05/08/1999	1999003-06	Pri: PLTSUP Sec:	Licensee	NCV	Pri: 1C Sec: 2B Ter:	**Failure to Properly Control Access to a High Radiation Area** A non-cited violation was identified concerning failure to properly control access to a high radiation area in the spent fuel pool building. Movement of spent fuel assemblies past a drained spent fuel cask loading pit resulted in the high radiation area. A contributing factor to this event was that the licensee elected to not remove scaffolding in the spent fuel pit after completion of maintenance and therefore did not fill the pit with water prior to moving spent fuel assemblies. **Dockets Discussed:** 05000395 SUMMER
03/27/1999	1999002-01	Pri: PLTSUP Sec:	NRC	NCV	Pri: 1C Sec: 3A Ter:	**Improperly Escorted Visitor Outside the Diesel Generator Building** A non-cited violation was identified concerning failure to properly control an escorted visitor in the protected area. A contributing factor was an informal turnover of escort responsibilities prior to the occurrence. **Dockets Discussed:** 05000395 SUMMER
02/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	**Security Plan Changes and Security Procedures** Security plan changes and security procedures were thorough, well documented, and consistent with the Physical Security Plan commitments and 10 CFR Part 50.54. **Dockets Discussed:** 05000395 SUMMER
02/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	**Logging of Safeguards Events** The licensee's safeguards events were logged according to the Physical Security Plan commitments. The licensee's process of tracking, trending, analyzing, and resolving these events was noteworthy. **Dockets Discussed:** 05000395 SUMMER
02/13/1999	1999001	Pri: PLTSUP Sec:	NRC	POS	Pri: 1C Sec: Ter:	**Security Organization Response Capability** The inspector verified that responses by the security organization to security threats, contingencies, and routine response situations were consistent with the security procedures, the Physical Security Plan and Security Contingency Plan. Appropriate procedural guidance was developed in response to NRC Information Notice 98-35, "Threat Assessments and Consideration of Heightened Physical Protection Measures." **Dockets Discussed:** 05000395 SUMMER

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
02/13/1999	1999001	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** **Ter:**	**Security Force Training and Requailification** The security force was effectively trained and requalified according to the Training and Qualification Plan and regulatory requirements. Training records were properly maintained and reflected current qualifications according to the training program commitments.
Dockets Discussed: 05000395 SUMMER						
02/13/1999	1999001	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 2A **Ter:**	**Vehicle Barrier System** The vehicle barrier system was functional, well maintained, and effective in its intended purpose. The vehicle barrier system met the Physical Security Plan commitments and regulatory requirements.
Dockets Discussed: 05000395 SUMMER						
02/13/1999	1999001	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 2B **Ter:**	**Security Compensatory Measures Program** The security compensatory measures program was effective and functional for failed or impaired security equipment and met Physical Security Plan commitments and regulatory requirements.
Dockets Discussed: 05000395 SUMMER						
02/13/1999	1999001	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 3B **Ter:** 2B	**Operability and Readiness of Security Contraband Detection System** The observed tests effectively provided assurance of the operability and readiness of the security contraband detection system. Security maintenance personnel performing the tests demonstrated a good level of knowledge and familiarity with security equipment.
Dockets Discussed: 05000395 SUMMER						
01/02/1999	1998010	**Pri:** PLTSUP **Sec:**	NRC	NEG	**Pri:** 1A **Sec:** 1C **Ter:** 5A	**Deficiencies in the Post Accident Sample System Drill** Several deficiencies, including configuration control issues, were identified during the performance of the chemistry post accident sample system sample drill and monthly comparison sampling. These deficiencies were captured by condition evaluation reports and the licensee drill critique process for resolution.
Dockets Discussed: 05000395 SUMMER						
01/02/1999	1998010	**Pri:** PLTSUP **Sec:**	NRC	POS	**Pri:** 1C **Sec:** 2A **Ter:**	**Security Equipment Observations** The security fence, isolation zone fence, motion detection equipment, and security cameras were observed to be in good condition during a walkdown of the security perimeter.
Dockets Discussed: 05000395 SUMMER						

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Date	Source	Functional Area	ID	Type	Template Codes	Item Title / Item Description
01/02/1999	1998010	Pri: PLTSUP	NRC	POS	Pri: 1C	**Performance of Emergency Preparedness Drill**
		Sec:			Sec: 3A	Licensee staff performance during the emergency drill was good. Operator response in the simulator was good. Operators exhibited proper procedure adherence and three way communications. Backup Emergency Operations Facility manning and activation were timely.
Dockets Discussed:					Ter:	
05000395 SUMMER						
11/21/1998	1998009	Pri: PLTSUP	NRC	POS	Pri: 1C	**Removal of Radwaste High Integrity Container**
		Sec:			Sec: 3A	The removal of the large radwaste high integrity container was well coordinated, resulting in limited personnel exposure. The pre-job planning and the designation of pre-determined goals for specific activities also contributed to limiting personnel radiation exposure.
Dockets Discussed:					Ter:	
05000395 SUMMER						
11/21/1998	1998009	Pri: PLTSUP	NRC	POS	Pri: 1C	**Identification and Correction of Pre-fire Plan Discrepencies**
		Sec:			Sec: 5A	The licensee identified and corrected several pre-fire plan discrepancies concerning the location and type of fire extinguishers staged in the plant. An independent review of the pre-fire plan maps and auxiliary building fire extinguishers and fire hose stations in the field identified no additional discrepancies.
Dockets Discussed:					Ter: 5C	
05000395 SUMMER						
11/21/1998	1998009	Pri: PLTSUP	NRC	POS	Pri: 2A	**Surveillance activities for the Early Warning Siren Control System**
		Sec: MAINT			Sec: 5C	Surveillance activities for the Early Warning Siren Control System demonstrated satisfactory performance of the equipment. Emergency planning personnel were responsive to correcting an identified procedure deficiency associated with notification of siren system inoperability.
Dockets Discussed:					Ter: 1C	
05000395 SUMMER						

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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

Functional Areas:

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

ID Codes:

NRC	NRC
Self	Self-Revealed
Licensee	Licensee

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 09/30/1999

V. C. SUMMER
INSPECTION PLAN

INSPECTION PROCEDURE/ TEMPORARY INSTRUCTION	TITLE/PROGRAM AREA	NUMBER OF INSPECTORS	PLANNED INSPECTION DATES	TYPE OF INSPECTION - COMMENTS
IP 83750	Occupational Radiation Exposure	1	November 1999	Core Inspection
IP 40500	Effectiveness of Licensee Controls in Identifying, Resolving, and Preventing Problems	4	December 1999	Core Inspection - focus on surveillance activities
IP 64704	Fire Protection Program	1	January 2000	Core Inspection
TI 2515/142	Draindown During Shutdown and Common - Mode Failure (Generic Letter 98-02)	1	To Be Determined	Safety Issue

Enclosure 2